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

State of New Mexico
Energy Minerals and Natural Resources

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

HOBBS OCD
FEB 26 2013
RECEIVED

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Southern Union Gas Services	Contact	Curt Stanley
Address	801 S. Loop 464, Monahans, TX 79756	Telephone No.	575-390-7595
Facility Name	Line 2A-3	Facility Type	Natural Gas Pipeline

Surface Owner Gerald Doom		Lease No. 30-025-38822

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	21	24S	37E					Lea

Latitude 32 degrees 12.235' North **Longitude** 103 degrees 08.699' West

NATURE OF RELEASE

Type of Release Natural Gas, Crude Oil and Produced Water	Volume of Release 7 bbl	Volume Recovered None
Source of Release 6 inch Natural Gas Pipeline	Date and Hour of Occurrence Unknown	Date and Hour of Discovery June 25, 2012 – 0945 hours
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
A six (6)-inch low pressure natural gas pipeline developed a leak, resulting in a release of natural gas, crude oil and produced water. During initial response activities the pipeline was shut-in to mitigate the release. Following initial response activities, the affected pipeline segment will be replaced with 6 inch poly line and returned to service.

Describe Area Affected and Cleanup Action Taken.*
An area of pasture land measuring approximately 13,000 square feet was affected by airborne liquids. An area of pasture land measuring approximately 1,000 square feet was affected by liquids flowing from the release point. The release was remediated according to NMOCD regulatory guidelines. Approximately 612 cubic yards of impacted soil was transported to Doom Land Farm, LLC (NMOCD Permit #01-0033) for disposal. Please reference "Remediation Summary and Site Closure Request" prepared by Nova Safety and Environmental and dated January 2013.

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: Curt Stanley

Title: Environmental Specialist

E-mail Address: curt.stanley@sug.com

Date: February 26, 2013 Phone: 575-390-7595

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Environmental Specialist

Approval Date: 2/26/13 Expiration Date: —

Conditions of Approval: —

Attached ☐

1RP-7-12-2836

* Attach Additional Sheets If Necessary

HOBBS OCD

FEB 26 2013

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REMEDIATION SUMMARY

AND SITE

CLOSURE REQUEST

Southern Union Gas Services
Line 2A-3 Release
Lea County, New Mexico
UNIT LTR "H" (SE ¼/NE ¼), Section 22, Township 24 South, Range 37 East
Latitude 32° 12.235' North, Longitude 103° 08.699' West
NMOCD Reference # 1RP-2836

NOVA
safety and environmental

Prepared For:

Southern Union Gas Services
801 South Loop 464
Monahans, Texas 79756

approved
Environmental Specialist
NMOCD – DIST I
2/26/13

Prepared By:

NOVA Safety & Environmental
2057 Commerce
Midland, Texas 79703

January 2013

Nikki Green
Project Manager

Brittan K. Byerly, P.G.
President

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Appendix C – Soil Disposal Manifest
Appendix D – Release Notification and Corrective Action (Form-C-141)

1.0 INTRODUCTION

Nova Safety & Environmental (NOVA), on behalf of Southern Union Gas Services (SUGS), has prepared this Remediation Summary and Site Closure Request for the release site known as Line 2A-3. The legal description of the release site is Unit Letter "H" (SE ¼, NE ¼), Section 22, Township 24 South, Range 37 East, in Lea County, New Mexico. The property affected by the release is owned by the Gerald Doom Estate. The release site GPS coordinates are 32° 12.235' North and 103° 08.699' West. Please reference Figure 1 for a Site Location Map and Figure 2 for a Site Details Schematic and Confirmation Soil Sample Locations Map. The Release Notification and Corrective Action (Form C-141) is provided as Appendix D.

On June 25, 2012, SUGS discovered a release of crude oil, natural gas and produced water had occurred from a low pressure steel pipeline. The cause of the release was attributed to failure of a segment of the steel pipeline. The released fluids flowed from the release point to the south, as well as being sprayed north on to pasture land. During initial response activities, SUGS installed a temporary pipeline clamp on the pipeline to mitigate the release. SUGS submitted the Release Notification and Corrective Action (Form C-141) to the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office on June 27, 2012. The initial C-141 indicated approximately seven (7) barrels of fluids were released from the pipeline, with no recovery. General photographs of the site are provided as Appendix B.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Office of the State Engineer (NMOSE) database identified no average depth to groundwater below ground surface (bgs) for Section 22, Township 24 South, Range 37 East. A reference map utilized by the NMOCD indicated depth to groundwater at the release site should be encountered at approximately 70 feet bgs. The depth to groundwater at the Line 2A-3 Release Site results in a ranking of ten (10) points being assigned to the site, based on the NMOCD depth to groundwater criteria.

The water well database, maintained by the NMOSE, indicated there are no water wells less than 1,000 feet from the release, resulting in zero (0) points being assigned to this site as a result of this criteria.

There are no surface water bodies located within 1,000 feet of the site. Based on the NMOCD ranking system zero (0) points will be assigned to the site as a result of the criteria.

The NMOCD guidelines indicate the Line 2A-3 Release Site has ranking score of ten (10). Based on this score, the soil remediation levels for a site with a ranking score of ten (10) points are as follows:

- Benzene – 10 mg/Kg (ppm)
- BTEX – 50 mg/Kg (ppm)
- TPH – 1,000 mg/Kg (ppm)

The NMOCD chloride cleanup level concentrations are site specific and will be determined by the NMOCD Hobbs District Office.

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On July 17, 2012, Nova, at the request of SUGS, commenced remediation activities at the Line 2A-3 Site. Approximately 485 cubic yards (cy) of impacted soil was excavated and stockpiled on-site, pending final disposition. The excavated soil was placed on a plastic liner to mitigate the potential leaching of contaminants into the vadose zone. The resulting excavation measured approximately one hundred sixty (160) feet in length, and ranged from approximately twenty (20) feet to sixty-nine (69) feet in width and ranged in depth from approximately a six (6) inches to eleven (11) feet bgs. Please reference Figure 2 for site details.

On July 20, 2012, fifteen (15) soil samples (North Floor @ 0.5', RP Floor @ 6', RP North S/W @ 3', RP South S/W @ 3', RP East S/W @ 3', RP West S/W @ 3', South S/W @ 1.5', Floor-2 @ 0.5', Floor-3 @ 10', North S/W-1 @ 5', South S/W-1@5', East S/W-1 @ 5', West S/W-1 @ 5', Overspray Area-1, and Overspray-2) were collected from the sidewalls and floor of the excavation. The soil samples were submitted to the laboratory for determination of concentrations of benzene, toluene, ethyl-benzene and xylene (BTEX), total petroleum hydrocarbon (TPH), and chlorides using EPA SW-846 8021b, SW-846 8015M, and E 300, respectively. Laboratory analytical results indicated benzene and BTEX concentrations were less than the appropriate laboratory MDL for all the submitted soil samples, with the exception of soil samples RP South S/W @ 3', RP East S/W @ 3', and Overspray-2, which exhibited BTEX concentrations ranging from 0.0200 to 0.0209 mg/Kg. Laboratory analytical results indicated TPH concentrations were less than the appropriate laboratory MDL for all the submitted soil samples, with the exception of soil sample Overspray Area-1, which exhibited a TPH concentration of 411 mg/Kg. Chloride concentrations ranged from less than the appropriate laboratory MDL for soil sample South S/W @ 1.5' to 1,210 mg/Kg for soil sample RP Floor @ 6'. A review of the laboratory analytical results indicated benzene, BTEX, TPH and chloride concentrations were less than NMOCD regulatory guidelines for all submitted soil samples with the exception of soil samples RP Floor @ 6' and RP West S/W 3', which exceeded regulatory guidelines for chloride concentrations. Table 1 summarizes the Concentrations of Benzene, BTEX, TPH and Chlorides in Soil. Laboratory analytical reports are provided as Appendix A. Based on laboratory analytical results, additional excavation was conducted in the areas represented by soil samples RP Floor @ 6' and RP West S/W @ 3'.

In addition, a composite sample, SP-1, was collected from the remediated stockpile of the excavation. The soil sample was submitted to the laboratory for benzene, BTEX, TPH, and chloride analysis. Laboratory analytical results indicated the benzene concentration was less than the laboratory MDL of 0.0200 mg/K. Laboratory analytical results indicated the BTEX concentration for the sample was 0.1606 mg/Kg. Laboratory analytical results indicated TPH concentration for the sample was 1,406 mg/Kg. Laboratory analytical results indicated the chloride concentration was 71.4 mg/Kg. Based on the lab analytical results, it was determined the stockpiled soil, represented by soil sample SP-1, would be transported to Doom Land Farm, LLC for disposal.

On August 21, 2012, following the excavation of additional impacted soil represented by soil sample RP Floor @ 6 and RP West S/W @ 3', two (2) soil samples (RP Floor @ 10' and RP West S/WA @ 3') were collected from the west sidewall and floor of the excavation. The soil samples were submitted to the laboratory for chloride analysis. Laboratory analytical results indicated chloride concentrations ranged from 93.6 mg/Kg for soil sample RP Floor @ 10' to

97.5 mg/Kg for soil sample RP West S/WA @ 3'. A review of the laboratory analytical results indicated chloride concentrations were less than NMOCD regulatory guidelines for all submitted soil. Please reference Figure 2 for site details and sample locations.

On September 20, 2012, SUGS and NOVA representatives met with an NMOCD Hobbs District Office representative to present the results of the soil sampling event, and request permission to backfill the excavation. The NMOCD representative approved the backfilling of the excavation with non-impacted soil purchased from the landowner.

A total of approximately 612 cubic yards of soil was transported to Doom Land Farm, L.L.C. (NMOCD Permit # 01-0033) for disposal. The excavation was backfilled with non-impacted soil and water compacted. On completion of backfilling activities, the impacted area was contoured to fit the surrounding topography. Manifests documenting soil disposal are provided as Appendix C.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to TraceAnalysis, Inc., of Midland, Texas for BTEX and/or TPH and/or chloride analyses using the methods described below. Soil samples were analyzed for BTEX and/or TPH and/or chloride concentrations within fourteen (14) days following the sampling event.

The soil samples were analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8021B, 5030
- TPH concentrations in accordance with modified EPA Method 8015M GRO/DRO
- Chloride concentration in accordance with Method E 300.

4.2 Decontamination of Equipment

Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use and between each sample, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

4.3 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody (COC) form. These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

5.0 SITE CLOSURE REQUEST

Based on the analytical results of confirmation soil samples, NOVA recommends SUGS provide the NMOCD a copy of this Remediation Summary and Site Closure Request and request the NMOCD grant closure to the Line 2A-3 Release Site.

6.0 LIMITATIONS

NOVA Safety and Environmental has prepared this Remediation Summary and Site Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

NOVA Safety and Environmental has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA Safety and Environmental has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. NOVA Safety and Environmental has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA Safety and Environmental also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Southern Union Gas Services. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of NOVA Safety and Environmental and/or Southern Union Gas Services.

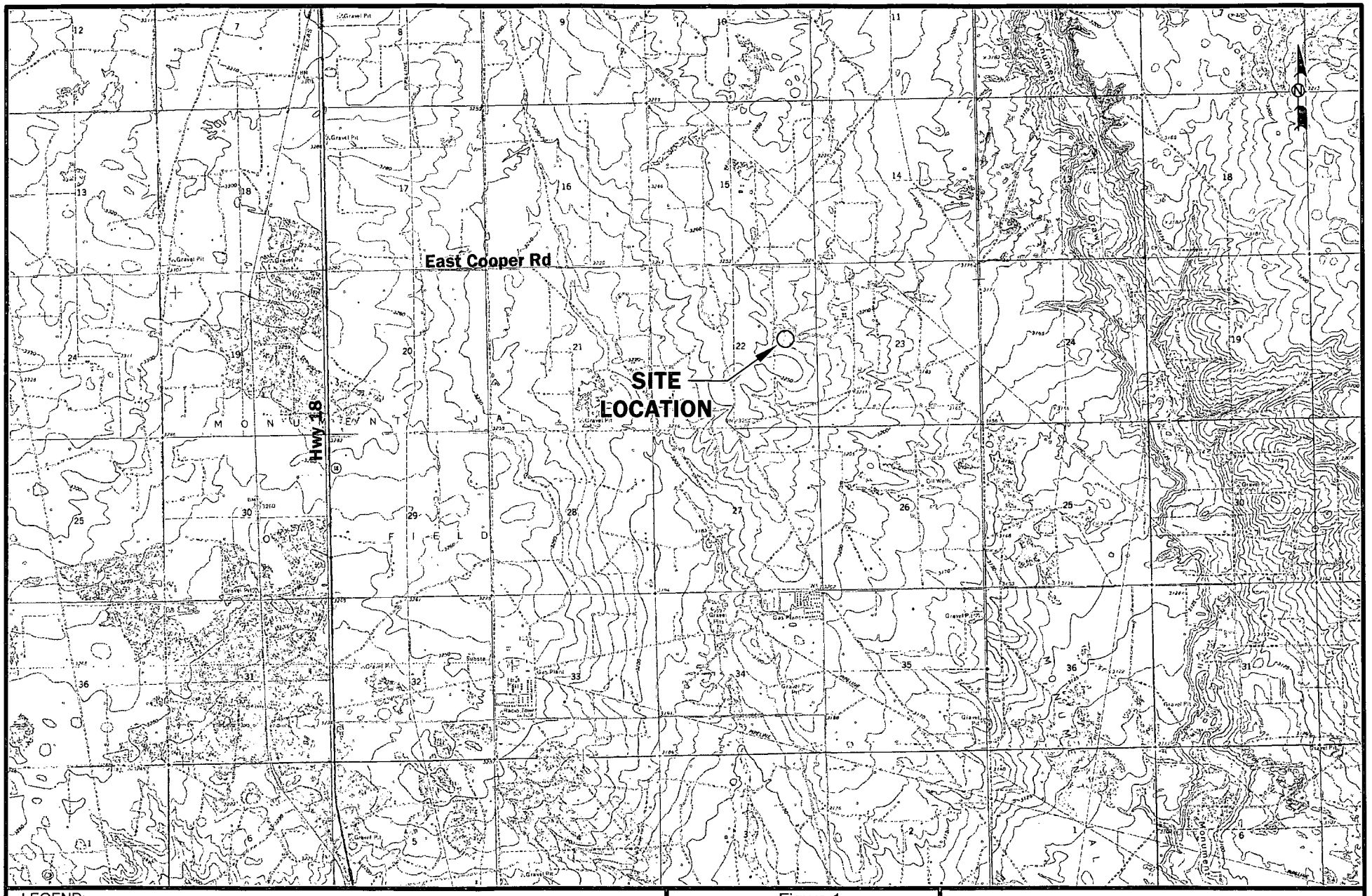
7.0 DISTRIBUTION:

Copy 1: Geoffrey Leking
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 1)
1625 French Drive
Hobbs, New Mexico 88240

Copy 2: Curt Stanley and Rose Slade
Southern Union Gas Services
801 South Loop 464
Monahans, Texas 79756

Copy 3: Nova Safety & Environmental
2057 Commerce Street
Midland, Texas 79703

FIGURES



LEGEND:

2000 1000 0 1000 2000

Distance in Feet

Figure 1

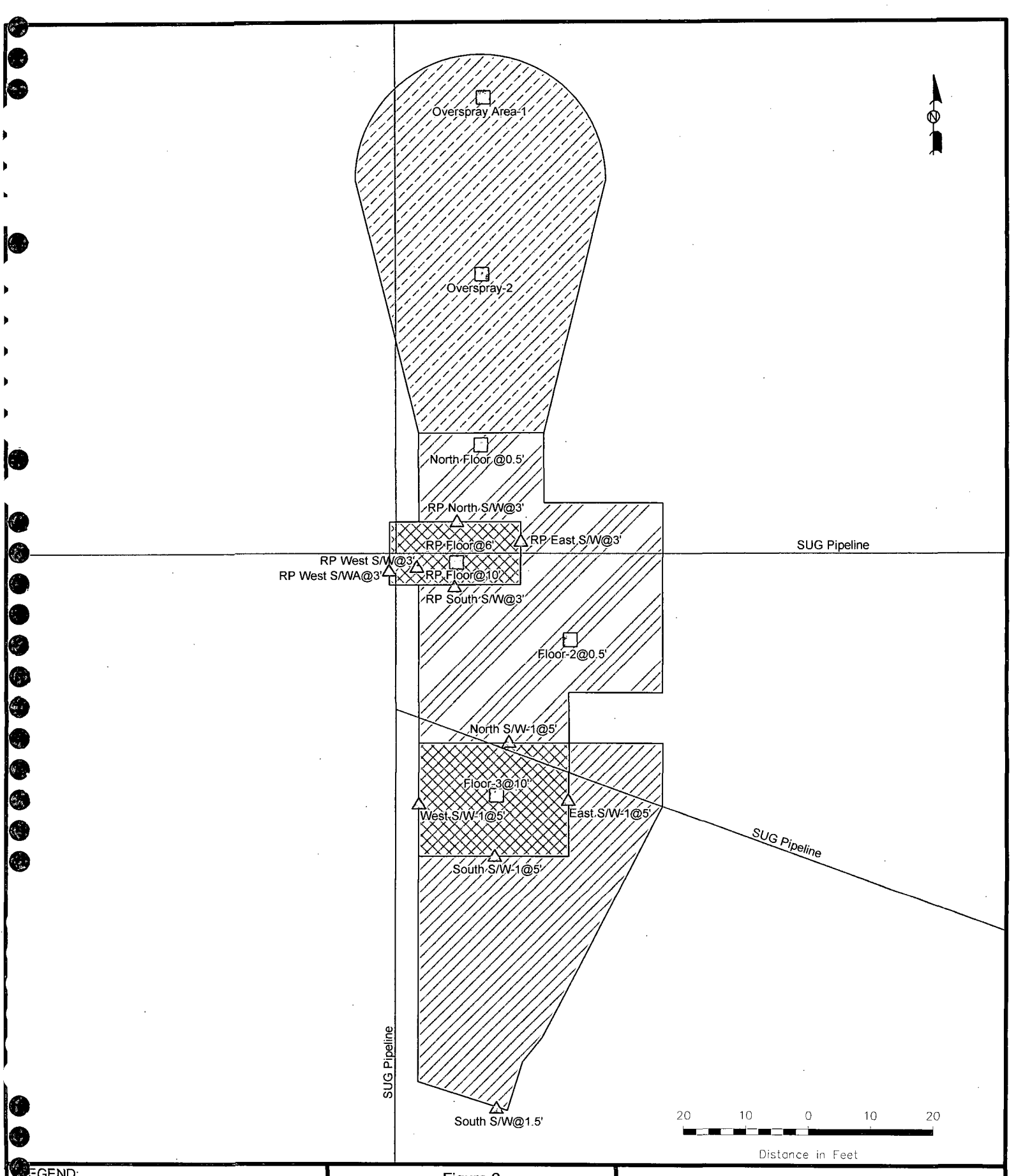
Site Location Map
Southern Union Gas Services
Line 2A-3
Lea County, NM

NOVA safety and environmental

2057 Commerce Drive
Midland, Texas 79703
432.520.7720

www.novasafetyandenvironmental.com

August 9, 2012	Scale: 1" = 2000'	CAD By: TA	Checked By: CJB
Lat. N 32° 12.235' Long. W 103° 08.699'			



LEGEND:

- Sidewall Soil Sample Location
- Pipeline
- Floor Soil Sample Location

Figure 2
Site Details Schematic & Confirmation Soil Sample Locations
Southern Union Gas Services
Line 2A-3
Lea County, NM

NOVA safety and environmental
2057 Commerce Drive
Midland, Texas 79703
432.520.7720
www.novasafetyandenvironmental.com

September 14, 2012	Scale: 1" = 20'	CAD By: TA	Checked By: CJB
Lat. N 32° 12.235' Long. W 103° 08.699'			

TABLES

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

SOUTHERN UNION GAS SERVICES
LINE 2A-3
LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/Kg

SAMPLE LOCATION	SAMPLE DATE	METHODS: SW 846-8021b					METHOD: SW 8015M			E 300.1
		BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	TOTAL BTEX	TPH GRO C_6-C_{12}	TPH DRO C_{12}-C_{35}	TOTAL TPH C_6-C_{35}	CHLORIDE
NMOCD Regulatory Limit		**10**	**-**	**-**	**-**	**50**	**-**	**-**	**1,000**	**-**
North Floor @ 0.5'	07/20/12	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<2.00	<50.0	<50.0	11.3
RP Floor @ 6'	07/20/12	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<2.00	<50.0	<50.0	1,210
RP North S/W @ 3'	07/20/12	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<2.00	<50.0	<50.0	13.3
RP South S/W @ 3'	07/20/12	<0.0200	0.0200	<0.0200	<0.0200	0.0200	<2.00	<50.0	<50.0	77.4
RP East S/W @ 3'	07/20/12	<0.0200	0.0209	<0.0200	<0.0200	0.0209	<2.00	<50.0	<50.0	41.8
RP West S/W @ 3'	07/20/12	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<2.00	<50.0	<50.0	833
South S/W @ 1.5'	07/20/12	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<2.00	<50.0	<50.0	<10.0
Floor-2 @ 0.5'	07/20/12	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<2.00	<50.0	<50.0	16.8
Floor-3 @ 10'	07/20/12	<1.00	<1.00	<1.00	<1.00	<1.00	<100	<250	<250	63.2
North S/W-1 @ 5'	07/20/12	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<2.00	<50.0	<50.0	24.3
South S/W-1 @ 5'	07/20/12	<0.200	<0.200	<0.200	<0.200	<0.200	<20.0	<50.0	<50.0	13.0
East S/W-1 @ 5'	07/20/12	<0.100	<0.100	<0.100	<0.100	<0.100	<10.0	<50.0	<50.0	16.7
West S/W-1 @ 5'	07/20/12	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<2.00	411	411	24.8
Overspray Area-1	07/20/12	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<2.00	<50.0	<50.0	<10.0
Overspray-2	07/20/12	<0.0200	0.0205	<0.0200	<0.0200	0.0205	<2.00	<50.0	<50.0	24.9
SP-1	07/20/12	<0.0200	0.0276	<0.0200	0.133	0.1606	56	1,350.0	1,406	71.4
RP Floor @ 10'	08/21/12	-	-	-	-	-	-	-	-	93.6
RP West S/WA @ 3'	08/21/12	-	-	-	-	-	-	-	-	97.5

APPENDICES

APPENDIX A:
Analytical Reports

Summary Report

Rose Slade
Southern Union Gas Services, Ltd.-Monahans
801 S. Loop 464
Monahans, TX 79756

Report Date: August 2, 2012

Work Order: 12072321

Project Location: Lea Co., NM
Project Name: Line 2A-3

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
304425	North Floor @ 0.5'	soil	2012-07-20	13:40	2012-07-23
304426	RP Floor @ 6'	soil	2012-07-20	14:00	2012-07-23
304427	RP North S/W @ 3'	soil	2012-07-20	14:10	2012-07-23
304428	RP South S/W @ 3'	soil	2012-07-20	14:15	2012-07-23
304429	RP East S/W @ 3'	soil	2012-07-20	14:20	2012-07-23
304430	RP West S/W @ 3'	soil	2012-07-20	14:25	2012-07-23
304431	South S/W @ 1.5'	soil	2012-07-20	14:30	2012-07-23
304432	Floor-2 @ 0.5'	soil	2012-07-20	14:40	2012-07-23
304433	Floor-3 @ 10'	soil	2012-07-20	14:50	2012-07-23
304434	North S/W-1 @ 5'	soil	2012-07-20	14:55	2012-07-23
304435	South S/W-1 @ 5'	soil	2012-07-20	15:00	2012-07-23
304436	East S/W-1 @ 5'	soil	2012-07-20	15:05	2012-07-23
304437	West S/W-1 @ 5'	soil	2012-07-20	15:10	2012-07-23
304438	Overspray Area-1	soil	2012-07-20	15:20	2012-07-23
304439	Overspray-2	soil	2012-07-20	15:25	2012-07-23
304440	SP-1	soil	2012-07-20	15:30	2012-07-23

	BTEX				TPH DRO - NEW	TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
304425 - North Floor @ 0.5'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0 $Q_{r,Qs}$	<2.00
304426 - RP Floor @ 6'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0 $Q_{r,Qs}$	<2.00
304427 - RP North S/W @ 3'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0 $Q_{r,Qs}$	<2.00
304428 - RP South S/W @ 3'	<0.0200	**0.0200**	<0.0200	<0.0200	<50.0 $Q_{r,Qs}$	<2.00
304429 - RP East S/W @ 3'	<0.0200	**0.0209**	<0.0200	<0.0200	<50.0 $Q_{r,Qs}$	<2.00
304430 - RP West S/W @ 3'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0 $Q_{r,Qs}$	<2.00
304431 - South S/W @ 1.5'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0 $Q_{r,Qs}$	<2.00
304432 - Floor-2 @ 0.5'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0 $Q_{r,Qs}$	<2.00

continued ...

... continued

Sample - Field Code	BTEX Benzene (mg/Kg)	BTEX Toluene (mg/Kg)	BTEX Ethylbenzene (mg/Kg)	BTEX Xylene (mg/Kg)	TPH DRO - NEW DRO (mg/Kg)	TPH GRO GRO (mg/Kg)
304433 - Floor-3 @ 10'	<1.00 [1]	<1.00	<1.00	<1.00	<250 $Q_{r,Qs}$	<100 [2]
304434 - North S/W-1 @ 5'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0 $Q_{r,Qs}$	<2.00
304435 - South S/W-1 @ 5'	<0.200 [3]	<0.200	<0.200	<0.200	<50.0 $Q_{r,Qs}$	<20.0 [4]
304436 - East S/W-1 @ 5'	<0.100 [5]	<0.100	<0.100	<0.100	<50.0 $Q_{r,Qs}$	<10.0 [6]
304437 - West S/W-1 @ 5'	<0.0200	<0.0200	<0.0200	<0.0200	**411** $Q_{r,Qs}$	<2.00
304438 - Overspray Area-1	<0.0200	<0.0200	<0.0200	<0.0200	<50.0 $Q_{r,Qs}$	<2.00
304439 - Overspray-2	<0.0200	**0.0205**	<0.0200	<0.0200	<50.0 $Q_{r,Qs}$	<2.00
304440 - SP-1	<0.0200	**0.0276**	<0.0200	**0.133**	**1350** Q_{s}	**56.0**

Sample: 304425 - North Floor @ 0.5'

Param	Flag	Result	Units	RL
Chloride	Q_{s}	**11.3**	mg/Kg	10

Sample: 304426 - RP Floor @ 6'

Param	Flag	Result	Units	RL
Chloride	Q_{s}	**1210**	mg/Kg	10

Sample: 304427 - RP North S/W @ 3'

Param	Flag	Result	Units	RL
Chloride	Q_{s}	**13.3**	mg/Kg	10

Sample: 304428 - RP South S/W @ 3'

Param	Flag	Result	Units	RL
Chloride	Q_{s}	**77.4**	mg/Kg	10

Sample: 304429 - RP East S/W @ 3'

Param	Flag	Result	Units	RL
Chloride	Q_{s}	**41.8**	mg/Kg	10

[1]Dilution due to surfactants.
[2]Dilution due to surfactants.
[3]Dilution due to surfactants.
[4]Dilution due to surfactants.
[5]Dilution due to surfactants.
[6]Dilution due to surfactants.

Sample: 304430 - RP West S/W @ 3'

Param	Flag	Result	Units	RL
Chloride	Qs	**833**	mg/Kg	10

Sample: 304431 - South S/W @ 1.5'

Param	Flag	Result	Units	RL
Chloride	Qs	<10.0	mg/Kg	10

Sample: 304432 - Floor-2 @ 0.5'

Param	Flag	Result	Units	RL
Chloride	Qs	**16.8**	mg/Kg	10

Sample: 304433 - Floor-3 @ 10'

Param	Flag	Result	Units	RL
Chloride	Qs	**63.2**	mg/Kg	10

Sample: 304434 - North S/W-1 @ 5'

Param	Flag	Result	Units	RL
Chloride	Qs	**24.3**	mg/Kg	10

Sample: 304435 - South S/W-1 @ 5'

Param	Flag	Result	Units	RL
Chloride	Qs	**13.0**	mg/Kg	10

Sample: 304436 - East S/W-1 @ 5'

Param	Flag	Result	Units	RL
Chloride	Qs	**16.7**	mg/Kg	10

Sample: 304437 - West S/W-1 @ 5'

Param	Flag	Result	Units	RL
Chloride	Qs	**24.8**	mg/Kg	10

Sample: 304438 - Overspray Area-1

Param	Flag	Result	Units	RL
Chloride	Qs	<10.0	mg/Kg	10

Sample: 304439 - Overspray-2

Param	Flag	Result	Units	RL
Chloride	Qs	**24.9**	mg/Kg	10

Sample: 304440 - SP-1

Param	Flag	Result	Units	RL
Chloride	Qs	**71.4**	mg/Kg	10

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 915-585-3443 FAX 915-585-4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Rose Slade
Southern Union Gas Services, Ltd.-Monahans
801 S. Loop 464
Monahans, TX, 79756

Report Date: August 2, 2012

Work Order: 12072321

Project Location: Lea Co., NM
Project Name: Line 2A-3
Project Number: Line 2A-3

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
304425	North Floor @ 0.5'	soil	2012-07-20	13:40	2012-07-23
304426	RP Floor @ 6'	soil	2012-07-20	14:00	2012-07-23
304427	RP North S/W @ 3'	soil	2012-07-20	14:10	2012-07-23
304428	RP South S/W @ 3'	soil	2012-07-20	14:15	2012-07-23
304429	RP East S/W @ 3'	soil	2012-07-20	14:20	2012-07-23
304430	RP West S/W @ 3'	soil	2012-07-20	14:25	2012-07-23
304431	South S/W @ 1.5'	soil	2012-07-20	14:30	2012-07-23
304432	Floor-2 @ 0.5'	soil	2012-07-20	14:40	2012-07-23
304433	Floor-3 @ 10'	soil	2012-07-20	14:50	2012-07-23
304434	North S/W-1 @ 5'	soil	2012-07-20	14:55	2012-07-23
304435	South S/W-1 @ 5'	soil	2012-07-20	15:00	2012-07-23
304436	East S/W-1 @ 5'	soil	2012-07-20	15:05	2012-07-23
304437	West S/W-1 @ 5'	soil	2012-07-20	15:10	2012-07-23
304438	Overspray Area-1	soil	2012-07-20	15:20	2012-07-23
304439	Overspray-2	soil	2012-07-20	15:25	2012-07-23
304440	SP-1	soil	2012-07-20	15:30	2012-07-23

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 44 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

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Case Narrative

Samples for project Line 2A-3 were received by TraceAnalysis, Inc. on 2012-07-23 and assigned to work order 12072321. Samples for work order 12072321 were received intact at a temperature of 4.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	79244	2012-07-30 at 09:15	93457	2012-07-30 at 09:15
Chloride (IC)	E 300.0	79181	2012-07-25 at 14:33	93562	2012-07-31 at 13:25
Chloride (IC)	E 300.0	79181	2012-07-25 at 14:33	93563	2012-07-31 at 13:26
TPH DRO - NEW	S 8015 D	79195	2012-07-26 at 14:00	93395	2012-07-27 at 07:10
TPH DRO - NEW	S 8015 D	79254	2012-07-30 at 11:00	93470	2012-07-31 at 07:51
TPH GRO	S 8015 D	79244	2012-07-30 at 09:15	93458	2012-07-30 at 09:15

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 12072321 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: 304425 - North Floor @ 0.5'

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	93457	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene		1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	1	<0.0200	mg/Kg	1	0.0200
Xylene	U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.15	mg/Kg	1	2.00	108	70 - 130
4-Bromofluorobenzene (4-BFB)			1.93	mg/Kg	1	2.00	96	70 - 130

Sample: 304425 - North Floor @ 0.5'

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	93562	Date Analyzed:	2012-07-31	Analyzed By:	AR
Prep Batch:	79181	Sample Preparation:	2012-07-25	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	Qs		**11.3**	mg/Kg	1	10.0

Sample: 304425 - North Floor @ 0.5'

Laboratory:	Lubbock				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	93395	Date Analyzed:	2012-07-27	Analyzed By:	CM
Prep Batch:	79195	Sample Preparation:	2012-07-26	Prepared By:	CM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	Jb,Qr,Qs	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			117	mg/Kg	1	100	117	75.4 - 130

Sample: 304425 - North Floor @ 0.5'

Laboratory:	Lubbock				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	93458	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
GRO	U	1	<2.00	mg/Kg	1	2.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.20	mg/Kg	1	2.00	110	70 - 130
4-Bromofluorobenzene (4-BFB)			2.07	mg/Kg	1	2.00	104	70 - 130

Sample: 304426 - RP Floor @ 6'

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	93457	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene		1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	1	<0.0200	mg/Kg	1	0.0200
Xylene	Jb	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.94	mg/Kg	1	2.00	97	70 - 130
4-Bromofluorobenzene (4-BFB)			1.66	mg/Kg	1	2.00	83	70 - 130

Sample: 304426 - RP Floor @ 6'

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	93562	Date Analyzed:	2012-07-31	Analyzed By:	AR
Prep Batch:	79181	Sample Preparation:	2012-07-25	Prepared By:	AR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride	Qs		**1210**	mg/Kg	10	10.0

Sample: 304426 - RP Floor @ 6'

Laboratory:	Lubbock				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	93395	Date Analyzed:	2012-07-27	Analyzed By:	CM
Prep Batch:	79195	Sample Preparation:	2012-07-26	Prepared By:	CM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
DRO	Jb,Qr,Qs	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			89.5	mg/Kg	1	100	90	75.4 - 130

Sample: 304426 - RP Floor @ 6'

Laboratory:	Lubbock				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	93458	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
GRO	U	1	<2.00	mg/Kg	1	2.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.94	mg/Kg	1	2.00	97	70 - 130
4-Bromofluorobenzene (4-BFB)			1.78	mg/Kg	1	2.00	89	70 - 130

Sample: 304427 - RP North S/W @ 3'

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	93457	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	1	<0.0200	mg/Kg	1	0.0200
Xylene	U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.15	mg/Kg	1	2.00	108	70 - 130
4-Bromofluorobenzene (4-BFB)			1.90	mg/Kg	1	2.00	95	70 - 130

Sample: 304427 - RP North S/W @ 3'

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	93562	Date Analyzed:	2012-07-31	Analyzed By:	AR
Prep Batch:	79181	Sample Preparation:	2012-07-25	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	Qs		**13.3**	mg/Kg	1	10.0

Sample: 304427 - RP North S/W @ 3'

Laboratory:	Lubbock				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	93395	Date Analyzed:	2012-07-27	Analyzed By:	CM
Prep Batch:	79195	Sample Preparation:	2012-07-26	Prepared By:	CM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	Jb,Qr,Qs	1	<50.0	mg/Kg	1	50.0

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Qsr	Qsr		136	mg/Kg	1	100	136	75.4 - 130

Sample: 304427 - RP North S/W @ 3'

Laboratory:	Lubbock				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	93458	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1	<2.00	mg/Kg	1	2.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.20	mg/Kg	1	2.00	110	70 - 130
4-Bromofluorobenzene (4-BFB)			2.06	mg/Kg	1	2.00	103	70 - 130

Sample: 304428 - RP South S/W @ 3'

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	93457	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene		1	**0.0200**	mg/Kg	1	0.0200
Ethylbenzene	U	1	<0.0200	mg/Kg	1	0.0200
Xylene	U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.78	mg/Kg	1	2.00	89	70 - 130
4-Bromofluorobenzene (4-BFB)			1.86	mg/Kg	1	2.00	93	70 - 130

Sample: 304428 - RP South S/W @ 3'

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	93562	Date Analyzed:	2012-07-31	Analyzed By:	AR
Prep Batch:	79181	Sample Preparation:	2012-07-25	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	Qs		**77.4**	mg/Kg	1	10.0

Sample: 304428 - RP South S/W @ 3'

Laboratory:	Lubbock				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	93395	Date Analyzed:	2012-07-27	Analyzed By:	CM
Prep Batch:	79195	Sample Preparation:	2012-07-26	Prepared By:	CM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	Jb,Qr,Qs	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			125	mg/Kg	1	100	125	75.4 - 130

Sample: 304428 - RP South S/W @ 3'

Laboratory:	Lubbock				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	93458	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1	<2.00	mg/Kg	1	2.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.81	mg/Kg	1	2.00	90	70 - 130
4-Bromofluorobenzene (4-BFB)			2.00	mg/Kg	1	2.00	100	70 - 130

Sample: 304429 - RP East S/W @ 3'

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	93457	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene		1	**0.0209**	mg/Kg	1	0.0200
Ethylbenzene	U	1	<0.0200	mg/Kg	1	0.0200
Xylene	U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.16	mg/Kg	1	2.00	108	70 - 130
4-Bromofluorobenzene (4-BFB)			2.02	mg/Kg	1	2.00	101	70 - 130

Sample: 304429 - RP East S/W @ 3'

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	93562	Date Analyzed:	2012-07-31	Analyzed By:	AR
Prep Batch:	79181	Sample Preparation:	2012-07-25	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	Qs		**41.8**	mg/Kg	1	10.0

Sample: 304429 - RP East S/W @ 3'

Laboratory:	Lubbock				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	93395	Date Analyzed:	2012-07-27	Analyzed By:	CM
Prep Batch:	79195	Sample Preparation:	2012-07-26	Prepared By:	CM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	Qr,Qs,U	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			121	mg/Kg	1	100	121	75.4 - 130

Sample: 304429 - RP East S/W @ 3'

Laboratory:	Lubbock				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	93458	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1	<2.00	mg/Kg	1	2.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.26	mg/Kg	1	2.00	113	70 - 130
4-Bromofluorobenzene (4-BFB)			2.15	mg/Kg	1	2.00	108	70 - 130

Sample: 304430 - RP West S/W @ 3'

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	93457	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	1	<0.0200	mg/Kg	1	0.0200
Xylene	U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.10	mg/Kg	1	2.00	105	70 - 130
4-Bromofluorobenzene (4-BFB)			1.94	mg/Kg	1	2.00	97	70 - 130

Sample: 304430 - RP West S/W @ 3'

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	93562	Date Analyzed:	2012-07-31	Analyzed By:	AR
Prep Batch:	79181	Sample Preparation:	2012-07-25	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	Qs		**833**	mg/Kg	10	10.0

Sample: 304430 - RP West S/W @ 3'

Laboratory:	Lubbock				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	93395	Date Analyzed:	2012-07-27	Analyzed By:	CM
Prep Batch:	79195	Sample Preparation:	2012-07-26	Prepared By:	CM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	Qr,Qs,U	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			95.4	mg/Kg	1	100	95	75.4 - 130

Sample: 304430 - RP West S/W @ 3'

Laboratory:	Lubbock				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	93458	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1	<2.00	mg/Kg	1	2.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.18	mg/Kg	1	2.00	109	70 - 130
4-Bromofluorobenzene (4-BFB)			2.09	mg/Kg	1	2.00	104	70 - 130

Sample: 304431 - South S/W @ 1.5'

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	93457	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

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

continued ...

sample 304431 continued ...

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Xylene	U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.02	mg/Kg	1	2.00	101	70 - 130
4-Bromofluorobenzene (4-BFB)			1.78	mg/Kg	1	2.00	89	70 - 130

Sample: 304431 - South S/W @ 1.5'

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	93562	Date Analyzed:	2012-07-31	Analyzed By:	AR
Prep Batch:	79181	Sample Preparation:	2012-07-25	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	Qs		<10.0	mg/Kg	1	10.0

Sample: 304431 - South S/W @ 1.5'

Laboratory:	Lubbock				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	93395	Date Analyzed:	2012-07-27	Analyzed By:	CM
Prep Batch:	79195	Sample Preparation:	2012-07-26	Prepared By:	CM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	Qr,Qs,U	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			112	mg/Kg	1	100	112	75.4 - 130

Sample: 304431 - South S/W @ 1.5'

Laboratory:	Lubbock				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	93458	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1	<2.00	mg/Kg	1	2.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.08	mg/Kg	1	2.00	104	70 - 130
4-Bromofluorobenzene (4-BFB)			1.90	mg/Kg	1	2.00	95	70 - 130

Sample: 304432 - Floor-2 @ 0.5'

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	93457	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene		1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	1	<0.0200	mg/Kg	1	0.0200
Xylene	U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.18	mg/Kg	1	2.00	109	70 - 130
4-Bromofluorobenzene (4-BFB)			1.98	mg/Kg	1	2.00	99	70 - 130

Sample: 304432 - Floor-2 @ 0.5'

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	93562	Date Analyzed:	2012-07-31	Analyzed By:	AR
Prep Batch:	79181	Sample Preparation:	2012-07-25	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	Qs		**16.8**	mg/Kg	1	10.0

Sample: 304432 - Floor-2 @ 0.5'

Laboratory:	Lubbock				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	93395	Date Analyzed:	2012-07-27	Analyzed By:	CM
Prep Batch:	79195	Sample Preparation:	2012-07-26	Prepared By:	CM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	Qr,Qs,U	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		1	123	mg/Kg	1	100	123	75.4 - 130

Sample: 304432 - Floor-2 @ 0.5'

Laboratory:	Lubbock				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	93458	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1	<2.00	mg/Kg	1	2.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.27	mg/Kg	1	2.00	114	70 - 130
4-Bromofluorobenzene (4-BFB)			2.08	mg/Kg	1	2.00	104	70 - 130

Sample: 304433 - Floor-3 @ 10'

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	93457	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<1.00	mg/Kg	50	0.0200
Toluene	U	1	<1.00	mg/Kg	50	0.0200
Ethylbenzene	U	1	<1.00	mg/Kg	50	0.0200
Xylene	U	1	<1.00	mg/Kg	50	0.0200

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Qsr	Qsr		3.33	mg/Kg	50	2.00	166	70 - 130
4-Bromofluorobenzene (4-BFB)	Qsr	Qsr		2.85	mg/Kg	50	2.00	142	70 - 130

Sample: 304433 - Floor-3 @ 10'

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	93563	Date Analyzed:	2012-07-31	Analyzed By:	AR
Prep Batch:	79181	Sample Preparation:	2012-07-25	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	Qs		**63.2**	mg/Kg	1	10.0

Sample: 304433 - Floor-3 @ 10'

Laboratory:	Lubbock				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	93395	Date Analyzed:	2012-07-27	Analyzed By:	CM
Prep Batch:	79195	Sample Preparation:	2012-07-26	Prepared By:	CM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	Qr,Qs	1	<250	mg/Kg	5	50.0

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Qsr	Qsr		254	mg/Kg	5	100	254	75.4 - 130

Sample: 304433 - Floor-3 @ 10'

Laboratory:	Lubbock				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	93458	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter		Flag	Cert	RL Result	Units	Dilution	RL
GRO	2	U	1	<100	mg/Kg	50	2.00

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Qsr	Qsr		3.14	mg/Kg	50	2.00	157	70 - 130
4-Bromofluorobenzene (4-BFB)	Qsr	Qsr		3.01	mg/Kg	50	2.00	150	70 - 130

Sample: 304434 - North S/W-1 @ 5'

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	93457	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	1	<0.0200	mg/Kg	1	0.0200
Xylene	U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.71	mg/Kg	1	2.00	86	70 - 130
4-Bromofluorobenzene (4-BFB)			1.84	mg/Kg	1	2.00	92	70 - 130

Sample: 304434 - North S/W-1 @ 5'

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	93563	Date Analyzed:	2012-07-31	Analyzed By:	AR
Prep Batch:	79181	Sample Preparation:	2012-07-25	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	Qs		**24.3**	mg/Kg	1	10.0

Sample: 304434 - North S/W-1 @ 5'

Laboratory:	Lubbock				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	93395	Date Analyzed:	2012-07-27	Analyzed By:	CM
Prep Batch:	79195	Sample Preparation:	2012-07-26	Prepared By:	CM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	Qr,Qs,U	1	<50.0	mg/Kg	1	50.0

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Qsr	Qsr		131	mg/Kg	1	100	131	75.4 - 130

Sample: 304434 - North S/W-1 @ 5'

Laboratory:	Lubbock				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	93458	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1	<2.00	mg/Kg	1	2.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.77	mg/Kg	1	2.00	88	70 - 130
4-Bromofluorobenzene (4-BFB)			2.00	mg/Kg	1	2.00	100	70 - 130

Sample: 304435 - South S/W-1 @ 5'

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	93457	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene [3]	U	1	<0.200	mg/Kg	10	0.0200
Toluene	U	1	<0.200	mg/Kg	10	0.0200
Ethylbenzene	U	1	<0.200	mg/Kg	10	0.0200
Xylene	Jb	1	<0.200	mg/Kg	10	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.98	mg/Kg	10	2.00	99	70 - 130
4-Bromofluorobenzene (4-BFB)			2.18	mg/Kg	10	2.00	109	70 - 130

Sample: 304435 - South S/W-1 @ 5'

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	93563	Date Analyzed:	2012-07-31	Analyzed By:	AR
Prep Batch:	79181	Sample Preparation:	2012-07-25	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	Qs		**13.0**	mg/Kg	1	10.0

Sample: 304435 - South S/W-1 @ 5'

Laboratory:	Lubbock				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	93395	Date Analyzed:	2012-07-27	Analyzed By:	CM
Prep Batch:	79195	Sample Preparation:	2012-07-26	Prepared By:	CM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	Qr,Qs,U	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			109	mg/Kg	1	100	109	75.4 - 130

Sample: 304435 - South S/W-1 @ 5'

Laboratory:	Lubbock				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	93458	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO [4]	U	1	<20.0	mg/Kg	10	2.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.40	mg/Kg	10	2.00	70	70 - 130
4-Bromofluorobenzene (4-BFB)			2.30	mg/Kg	10	2.00	115	70 - 130

Sample: 304436 - East S/W-1 @ 5'

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	93457	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene [5]	U	1	<0.100	mg/Kg	5	0.0200
Toluene	U	1	<0.100	mg/Kg	5	0.0200
Ethylbenzene	U	1	<0.100	mg/Kg	5	0.0200
Xylene	U	1	<0.100	mg/Kg	5	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.66	mg/Kg	5	2.00	83	70 - 130
4-Bromofluorobenzene (4-BFB)			1.88	mg/Kg	5	2.00	94	70 - 130

Sample: 304436 - East S/W-1 @ 5'

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	93563	Date Analyzed:	2012-07-31	Analyzed By:	AR
Prep Batch:	79181	Sample Preparation:	2012-07-25	Prepared By:	AR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride	Qs		**16.7**	mg/Kg	1	10.0

Sample: 304436 - East S/W-1 @ 5'

Laboratory:	Lubbock				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	93395	Date Analyzed:	2012-07-27	Analyzed By:	CM
Prep Batch:	79195	Sample Preparation:	2012-07-26	Prepared By:	CM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
DRO	Jb,Qr,Qs	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			122	mg/Kg	1	100	122	75.4 - 130

Sample: 304436 - East S/W-1 @ 5'

Laboratory:	Lubbock				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	93458	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO [6]	U	1	<10.0	mg/Kg	5	2.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.47	mg/Kg	5	2.00	74	70 - 130
4-Bromofluorobenzene (4-BFB)			2.04	mg/Kg	5	2.00	102	70 - 130

Sample: 304437 - West S/W-1 @ 5'

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	93457	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	1	<0.0200	mg/Kg	1	0.0200
Xylene	U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.02	mg/Kg	1	2.00	101	70 - 130
4-Bromofluorobenzene (4-BFB)			1.85	mg/Kg	1	2.00	92	70 - 130

Sample: 304437 - West S/W-1 @ 5'

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	93563	Date Analyzed:	2012-07-31	Analyzed By:	AR
Prep Batch:	79181	Sample Preparation:	2012-07-25	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	Qs		**24.8**	mg/Kg	1	10.0

Sample: 304437 - West S/W-1 @ 5'

Laboratory:	Lubbock				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	93395	Date Analyzed:	2012-07-27	Analyzed By:	CM
Prep Batch:	79195	Sample Preparation:	2012-07-26	Prepared By:	CM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	Qr,Qs	1	**411**	mg/Kg	1	50.0

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Qsr	Qsr		160	mg/Kg	1	100	160	75.4 - 130

Sample: 304437 - West S/W-1 @ 5'

Laboratory:	Lubbock				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	93458	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1	<2.00	mg/Kg	1	2.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.12	mg/Kg	1	2.00	106	70 - 130
4-Bromofluorobenzene (4-BFB)			2.00	mg/Kg	1	2.00	100	70 - 130

Sample: 304438 - Overspray Area-1

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	93457	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene		1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	1	<0.0200	mg/Kg	1	0.0200
Xylene	U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.08	mg/Kg	1	2.00	104	70 - 130
4-Bromofluorobenzene (4-BFB)			1.92	mg/Kg	1	2.00	96	70 - 130

Sample: 304438 - Overspray Area-1

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	93563	Date Analyzed:	2012-07-31	Analyzed By:	AR
Prep Batch:	79181	Sample Preparation:	2012-07-25	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	Qs		<10.0	mg/Kg	1	10.0

Sample: 304438 - Overspray Area-1

Laboratory:	Lubbock				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	93395	Date Analyzed:	2012-07-27	Analyzed By:	CM
Prep Batch:	79195	Sample Preparation:	2012-07-26	Prepared By:	CM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	Qr,Qs,U	1	<50.0	mg/Kg	1	50.0

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Qsr	Qsr		139	mg/Kg	1	100	139	75.4 - 130

Sample: 304438 - Overspray Area-1

Laboratory:	Lubbock				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	93458	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1	<2.00	mg/Kg	1	2.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.20	mg/Kg	1	2.00	110	70 - 130
4-Bromofluorobenzene (4-BFB)			2.07	mg/Kg	1	2.00	104	70 - 130

Sample: 304439 - Overspray-2

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	93457	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene		1	**0.0205**	mg/Kg	1	0.0200
Ethylbenzene	U	1	<0.0200	mg/Kg	1	0.0200
Xylene	U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.00	mg/Kg	1	2.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)			1.91	mg/Kg	1	2.00	96	70 - 130

Sample: 304439 - Overspray-2

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	93563	Date Analyzed:	2012-07-31	Analyzed By:	AR
Prep Batch:	79181	Sample Preparation:	2012-07-25	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	Qs		**24.9**	mg/Kg	1	10.0

Sample: 304439 - Overspray-2

Laboratory:	Lubbock				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	93395	Date Analyzed:	2012-07-27	Analyzed By:	CM
Prep Batch:	79195	Sample Preparation:	2012-07-26	Prepared By:	CM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
DRO	Qr,Qs,U	1	<50.0	mg/Kg	1	50.0

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Qsr	Qsr		132	mg/Kg	1	100	132	75.4 - 130

Sample: 304439 - Overspray-2

Laboratory:	Lubbock				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	93458	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
GRO	U	1	<2.00	mg/Kg	1	2.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.10	mg/Kg	1	2.00	105	70 - 130
4-Bromofluorobenzene (4-BFB)			2.04	mg/Kg	1	2.00	102	70 - 130

Sample: 304440 - SP-1

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	93457	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene		1	**0.0276**	mg/Kg	1	0.0200
Ethylbenzene	U	1	<0.0200	mg/Kg	1	0.0200
Xylene		1	**0.133**	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.99	mg/Kg	1	2.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)			2.38	mg/Kg	1	2.00	119	70 - 130

Sample: 304440 - SP-1

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	93563	Date Analyzed:	2012-07-31	Analyzed By:	AR
Prep Batch:	79181	Sample Preparation:	2012-07-25	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	Qs		**71.4**	mg/Kg	1	10.0

Sample: 304440 - SP-1

Laboratory:	Lubbock				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	93470	Date Analyzed:	2012-07-31	Analyzed By:	CM
Prep Batch:	79254	Sample Preparation:	2012-07-30	Prepared By:	CM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	Qs	1	**1350**	mg/Kg	1	50.0

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Qsr	Qsr		247	mg/Kg	1	100	247	75.4 - 130

Sample: 304440 - SP-1

Laboratory:	Lubbock				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	93458	Date Analyzed:	2012-07-30	Analyzed By:	MT
Prep Batch:	79244	Sample Preparation:	2012-07-30	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO		1	**56.0**	mg/Kg	1	2.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.09	mg/Kg	1	2.00	104	70 - 130
4-Bromofluorobenzene (4-BFB)			2.47	mg/Kg	1	2.00	124	70 - 130

Method Blanks

Method Blank (1) QC Batch: 93395

QC Batch: 93395 | Date Analyzed: 2012-07-27 | Analyzed By: CM
Prep Batch: 79195 | QC Preparation: 2012-07-26 | Prepared By: CM

Parameter	Flag	Cert	MDL Result	Units	RL
DRO		1	6.62	mg/Kg	50

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			95.5	mg/Kg	1	100	96	75.4 - 130

Method Blank (1) QC Batch: 93457

QC Batch: 93457 | Date Analyzed: 2012-07-30 | Analyzed By: MT
Prep Batch: 79244 | QC Preparation: 2012-07-30 | Prepared By: MT

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.00365	mg/Kg	0.02
Toluene		1	<0.00816	mg/Kg	0.02
Ethylbenzene		1	<0.00560	mg/Kg	0.02
Xylene		1	0.0133	mg/Kg	0.02

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.80	mg/Kg	1	2.00	90	70 - 130
4-Bromofluorobenzene (4-BFB)			1.79	mg/Kg	1	2.00	90	70 - 130

Method Blank (1) QC Batch: 93458

QC Batch: 93458 | Date Analyzed: 2012-07-30 | Analyzed By: MT
Prep Batch: 79244 | QC Preparation: 2012-07-30 | Prepared By: MT

Parameter	Flag	Cert	MDL Result	Units	RL
GRO		1	0.442	mg/Kg	2

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.89	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)			1.92	mg/Kg	1	2.00	96	70 - 130

Method Blank (1) QC Batch: 93470

QC Batch: 93470 | Date Analyzed: 2012-07-31 | Analyzed By: CM
Prep Batch: 79254 | QC Preparation: 2012-07-30 | Prepared By: CM

Parameter	Flag	Cert	MDL Result	Units	RL
DRO		1	<6.50	mg/Kg	50

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			114	mg/Kg	1	100	114	75.4 - 130

Method Blank (1) QC Batch: 93562

QC Batch: 93562 | Date Analyzed: 2012-07-31 | Analyzed By: AR
Prep Batch: 79181 | QC Preparation: 2012-07-25 | Prepared By: AR

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride			0.860	mg/Kg	10

Method Blank (1) QC Batch: 93563

QC Batch: 93563 | Date Analyzed: 2012-07-31 | Analyzed By: AR
Prep Batch: 79181 | QC Preparation: 2012-07-25 | Prepared By: AR

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride			0.826	mg/Kg	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 93395 | Date Analyzed: 2012-07-27 | Analyzed By: CM
Prep Batch: 79195 | QC Preparation: 2012-07-26 | Prepared By: CM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		1	202	mg/Kg	1	250	6.62	78	73.2 - 118

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		1	230	mg/Kg	1	250	6.62	89	73.2 - 118	13	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	90.0	91.7	mg/Kg	1	100	90	92	75.4 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 93457 | Date Analyzed: 2012-07-30 | Analyzed By: MT
Prep Batch: 79244 | QC Preparation: 2012-07-30 | Prepared By: MT

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	1.88	mg/Kg	1	2.00	<0.00365	94	75.4 - 120
Toluene		1	1.85	mg/Kg	1	2.00	<0.00816	92	74.9 - 120
Ethylbenzene		1	1.86	mg/Kg	1	2.00	<0.00560	93	78.1 - 120
Xylene		1	5.58	mg/Kg	1	6.00	0.0133	93	77.3 - 120

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	1.92	mg/Kg	1	2.00	<0.00365	96	75.4 - 120	2	20
Toluene		1	1.89	mg/Kg	1	2.00	<0.00816	94	74.9 - 120	2	20
Ethylbenzene		1	1.91	mg/Kg	1	2.00	<0.00560	96	78.1 - 120	3	20
Xylene		1	5.69	mg/Kg	1	6.00	0.0133	95	77.3 - 120	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.83	1.85	mg/Kg	1	2.00	92	92	70 - 130
4-Bromofluorobenzene (4-BFB)	1.87	1.84	mg/Kg	1	2.00	94	92	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 93458 | Date Analyzed: 2012-07-30 | Analyzed By: MT
Prep Batch: 79244 | QC Preparation: 2012-07-30 | Prepared By: MT

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		1	17.6	mg/Kg	1	20.0	0.442	88	68.9 - 120

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO		1	17.2	mg/Kg	1	20.0	0.442	86	68.9 - 120	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.89	1.84	mg/Kg	1	2.00	94	92	70 - 130
4-Bromofluorobenzene (4-BFB)	2.04	2.00	mg/Kg	1	2.00	102	100	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 93470 | Date Analyzed: 2012-07-31 | Analyzed By: CM
Prep Batch: 79254 | QC Preparation: 2012-07-30 | Prepared By: CM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		1	269	mg/Kg	1	250	<6.50	108	73.2 - 118

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		1	258	mg/Kg	1	250	<6.50	103	73.2 - 118	4	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	112	110	mg/Kg	1	100	112	110	75.4 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 93562 | Date Analyzed: 2012-07-31 | Analyzed By: AR
Prep Batch: 79181 | QC Preparation: 2012-07-25 | Prepared By: AR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			254	mg/Kg	1	250	<0.0460	102	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			257	mg/Kg	1	250	<0.0460	103	90 - 110	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: 93563 | Date Analyzed: 2012-07-31 | Analyzed By: AR
Prep Batch: 79181 | QC Preparation: 2012-07-25 | Prepared By: AR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			260	mg/Kg	1	250	<0.0460	104	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			259	mg/Kg	1	250	<0.0460	104	90 - 110	0	20

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

Matrix Spike (MS-1) Spiked Sample: 304433

QC Batch: 93395 | Date Analyzed: 2012-07-27 | Analyzed By: CM
Prep Batch: 79195 | QC Preparation: 2012-07-26 | Prepared By: CM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	Qs	Qs	1 168	mg/Kg	5	250	179	-4	75.4 - 130

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	Qr,Qs	Qr,Qs	1 251	mg/Kg	5	250	179	29	75.4 - 130	40	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	139	139	mg/Kg	5	100	139	139	38.4 - 143

Matrix Spike (MS-1) Spiked Sample: 304426

QC Batch: 93457 | Date Analyzed: 2012-07-30 | Analyzed By: MT
Prep Batch: 79244 | QC Preparation: 2012-07-30 | Prepared By: MT

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	1.96	mg/Kg	1	2.00	<0.00365	98	37.6 - 142
Toluene		1	2.05	mg/Kg	1	2.00	0.0159	102	38.6 - 153
Ethylbenzene		1	2.18	mg/Kg	1	2.00	<0.00560	109	36.7 - 172
Xylene		1	6.52	mg/Kg	1	6.00	0.0134	108	36.7 - 173

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	1.78	mg/Kg	1	2.00	<0.00365	89	37.6 - 142	10	20
Toluene		1	1.93	mg/Kg	1	2.00	0.0159	96	38.6 - 153	6	20
Ethylbenzene		1	2.06	mg/Kg	1	2.00	<0.00560	103	36.7 - 172	6	20
Xylene		1	6.15	mg/Kg	1	6.00	0.0134	102	36.7 - 173	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. Limit
Trifluorotoluene (TFT)	2.21	1.99	mg/Kg	1	2	110	100	70 - 130
4-Bromofluorobenzene (4-BFB)	1.85	1.85	mg/Kg	1	2	92	92	70 - 130

Matrix Spike (MS-1) Spiked Sample: 304425

QC Batch: 93458 | Date Analyzed: 2012-07-30 | Analyzed By: MT
Prep Batch: 79244 | QC Preparation: 2012-07-30 | Prepared By: MT

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		1	15.0	mg/Kg	1	20.0	<0.359	75	70 - 130

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO		1	15.6	mg/Kg	1	20.0	<0.359	78	70 - 130	4	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.79	1.81	mg/Kg	1	2	90	90	70 - 130
4-Bromofluorobenzene (4-BFB)	1.99	1.98	mg/Kg	1	2	100	99	70 - 130

Matrix Spike (MS-1) Spiked Sample: 304376

QC Batch: 93470 | Date Analyzed: 2012-07-31 | Analyzed By: CM
Prep Batch: 79254 | QC Preparation: 2012-07-30 | Prepared By: CM

Param		F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	Qs	Qs	1	44400	mg/Kg	10	250	33500	4360	75.4 - 130

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

Param		F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	Qs	Qs	1	45800	mg/Kg	10	250	33500	4920	75.4 - 130	3	20

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

Surrogate			MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	Qsr	Qsr	8230	9400	mg/Kg	10	100	8230	9400	38.4 - 143

Matrix Spike (MS-1) Spiked Sample: 304425

QC Batch: 93562 | Date Analyzed: 2012-07-31 | Analyzed By: AR
Prep Batch: 79181 | QC Preparation: 2012-07-25 | Prepared By: AR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	Qs	Qs	325	mg/Kg	1	275	11.3	114	90 - 110

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	Qs	Qs	330	mg/Kg	1	275	11.3	116	90 - 110	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: 304433

QC Batch: 93563 | Date Analyzed: 2012-07-31 | Analyzed By: AR
Prep Batch: 79181 | QC Preparation: 2012-07-25 | Prepared By: AR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	Qs	Qs	408	mg/Kg	1	275	63.2	125	90 - 110

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	Qs	Qs	409	mg/Kg	1	275	63.2	126	90 - 110	0	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 93395 | Date Analyzed: 2012-07-27 | Analyzed By: CM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	226	90	80 - 120	2012-07-27

Standard (CCV-2)

QC Batch: 93395 | Date Analyzed: 2012-07-27 | Analyzed By: CM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	199	80	80 - 120	2012-07-27

Standard (CCV-3)

QC Batch: 93395 | Date Analyzed: 2012-07-27 | Analyzed By: CM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	220	88	80 - 120	2012-07-27

Standard (CCV-1)

QC Batch: 93457 | Date Analyzed: 2012-07-30 | Analyzed By: MT

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.0882	88	80 - 120	2012-07-30
Toluene		1	mg/kg	0.100	0.0922	92	80 - 120	2012-07-30

continued ...

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	25.0	25.3	101	90 - 110	2012-07-31

Standard (CCV-2)

QC Batch: 93562 Date Analyzed: 2012-07-31 Analyzed By: AR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	25.0	25.4	102	90 - 110	2012-07-31

Standard (CCV-1)

QC Batch: 93563 Date Analyzed: 2012-07-31 Analyzed By: AR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	25.0	25.4	102	90 - 110	2012-07-31

Standard (CCV-2)

QC Batch: 93563 Date Analyzed: 2012-07-31 Analyzed By: AR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	25.0	25.9	104	90 - 110	2012-07-31

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Result Comments

1 Dilution due to surfactants.
2 Dilution due to surfactants.
3 Dilution due to surfactants.
4 Dilution due to surfactants.
5 Dilution due to surfactants.

6 Dilution due to surfactants.

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

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TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: Nova Safety & Env
Phone #: 432-520-7720
Address: (Street, City, Zip) 2057 Commerce
Fax #: 432-520-7701
Contact Person: Camille Bryant
E-mail: cbryant@novatraining.cc
Invoice to: (If different from above) Southern Union Gas Curt.Stanley@sug.com
Project #:
Project Name: Line 2A-3
Project Location (including state): Lea Co, New Mexico
Sampler Signature: Camille Bryant

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
304425	North Floor @ 0.5'	1	4oz		X							X		7/20/2012	1340
426	KP Floor @ 6'														1400
427	KP North Sidewall @ 3'														1410
428	KP South Sidewall @ 3'														1415
429	KP East Sidewall @ 3'														1420
430	KP West Sidewall @ 3'														1425
431	South Sidewall @ 5'														1430
432	Floor-2 @ 0.5'														1440
433	Floor-3 @ 10'														1450
434	North Sidewall @ 5'														1455
435	South Sidewall @ 5'														1500

MTBE 8021 / 602 / 8260 / 624
BTEX 8021 / 602 / 8260 / 624 (X)
TPH 418.1 / TX1005 / TX1005 Ext(C35)
TPH 8015 GRO / DRO / TVHC (X)
PAH 8270 / 625
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7
TCLP Metals Ag As Ba Cd Cr Pb Se Hg
TCLP Volatiles
TCLP Semi Volatiles
TCLP Pesticides
RCI
GC/MS Vol. 8260 / 624
GC/MS Semi. Vol. 8270 / 625
PCB's 8082 / 608
Pesticides 8081 / 608
BOD, TSS, pH
Moisture Content
Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity
Na, Ca, Mg, K, TDS, EC (X)
Turn Around Time if different from standard
Hold

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Camille Bryant	Nova	7-23-11	1345	J Gilman	NOVA	7-23-11	1345
J Gilman	NOVA	7-23-11	1345	ARoa	TA	7-23-12	1345
ARoa	TA	7-24-12	900	[illegible]	TA	7-25-12	9:20

INST ____ °C
OBS ____ °C
COR ____ °C

LAB USE ONLY
Intact Y / N
Headspace Y / N / NA
Log-In-Review

REMARKS:
Midland - Cl
Lubbock - BTEX / TPH

- [ ] Dry Weight Basis Required
- [ ] TRRP Report Required
- [ ] Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

Carrier # TN 931156

LAB Order ID # 1207332

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9, **Lubbock, Texas 79424**, Tel (806) 794-1296, Fax (806) 794-1298, 1 (800) 378-1296

5002 Basin Street, Suite A1, **Midland, Texas 79703**, Tel (432) 689-6301, Fax (432) 689-6313

200 East Sunset Rd., Suite E, **El Paso, Texas 79922**, Tel (915) 585-3443, Fax (915) 585-4944, 1 (888) 588-3443

BioAquatic Testing, 2501 Mayes Rd., Ste 100, **Carrollton, Texas 75006**, Tel (972) 242-7750

Company Name: Nova Safety & Env.
Phone #: 432-520-7720
Address: (Street, City, Zip) 2057 Commerce Midland
Fax #: 432-520-7701
Contact Person: Camille Bryant
E-mail: cbryant@novatraining.cc
Invoice to: (If different from above) Southern Union Gas Curt Stanley@SUG.com
Project #:
Project Name: Line 2A-3
Project Location (including state): Lea Co, New Mexico
Sampler Signature: Camille Bryant

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	MATRIX: SOIL	MATRIX: AIR	MATRIX: SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE (2012)	SAMPLING: TIME
436	East S/W-1 @5'	1	4oz		X							X		7/20	1505
437	West S/W-1 @5'	↓	↓		↓							↓		↓	1510
438	Overspray Area-1	↓	↓		↓							↓		↓	1520
439	Overspray-2	↓	↓		↓							↓		↓	1525
440	SP-1	↓	↓		↓							↓		↓	1530

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB #	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624 (8021 circled)	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC (GRO / DRO circled)	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	Na, Ca, Mg, K, TDS, EC	Cl E300				Turn Around Time if different from standard
436		X		X																X				
437		X		X																X				
438		X		X																X				
439		X		X																X				
440		X		X																X				

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
Camille Bryant	Nova	7/23/12	1345	J. Gaskin	NOVA	7-23-12	1345	INST ___ °C OBS ___ °C COR ___ °C
J. Gaskin	NOVA	7-23-12		A Ross	TA	7-23-12	1345	INST ___ °C OBS ___ °C COR ___ °C
A Ross	TA	7-24-12	900					INST ___ °C OBS ___ °C COR ___ °C

LAB USE ONLY
Intact (Y) / N
Headspace Y / (N) / NA
4°C AR
Log-in-Review ______

REMARKS:

☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

Carrier # ______

ORIGINAL COPY

Summary Report

Rose Slade
Southern Union Gas Services, Ltd.-Monahans
801 S. Loop 464
Monahans, TX 79756

Report Date: September 7, 2012

Work Order: 12082220

Project Location: Lea Co., NM
Project Name: Line 2A-3

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
307400	RP Floor @ 10'	soil	2012-08-21	09:00	2012-08-22
307401	RP West S/W-A @ 3	soil	2012-08-21	09:20	2012-08-22

Sample: 307400 - RP Floor @ 10'

Param	Flag	Result	Units	RL
Chloride		**93.6**	mg/Kg	2

Sample: 307401 - RP West S/W-A @ 3

Param	Flag	Result	Units	RL
Chloride		**97.5**	mg/Kg	2

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 915-585-3443 FAX 915-585-4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Rose Slade
Southern Union Gas Services, Ltd.-Monahans
801 S. Loop 464
Monahans, TX, 79756

Report Date: September 7, 2012

Work Order: 12082220

Project Location: Lea Co., NM
Project Name: Line 2A-3
Project Number: Line 2A-3

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
307400	RP Floor @ 10'	soil	2012-08-21	09:00	2012-08-22
307401	RP West S/W-A @ 3	soil	2012-08-21	09:20	2012-08-22

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

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

Report Contents

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Sample 307400 (RP Floor @10') 4
Sample 307401 (RP West S/W-A @3) 4

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QC Batch 94547 - LCS (1) 6
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Calibration Standards **7**
QC Batch 94547 - CCV (1) 7
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Standard Flags 8
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Case Narrative

Samples for project Line 2A-3 were received by TraceAnalysis, Inc. on 2012-08-22 and assigned to work order 12082220. Samples for work order 12082220 were received intact at a temperature of -4.1 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	80112	2012-08-29 at 10:00	94547	2012-08-29 at 12:00

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 12082220 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: 307400 - RP Floor @ 10'

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	94547	Date Analyzed:	2012-08-29	Analyzed By:	RL
Prep Batch:	80112	Sample Preparation:	2012-08-29	Prepared By:	RL

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride		1	**93.6**	mg/Kg	5	2.00

Sample: 307401 - RP West S/W-A @ 3

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	94547	Date Analyzed:	2012-08-29	Analyzed By:	RL
Prep Batch:	80112	Sample Preparation:	2012-08-29	Prepared By:	RL

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride		1	**97.5**	mg/Kg	1	2.00

Method Blanks

Method Blank (1) QC Batch: 94547

QC Batch:	94547	Date Analyzed:	2012-08-29	Analyzed By:	RL
Prep Batch:	80112	QC Preparation:	2012-08-29	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride		1	<0.193	mg/Kg	2

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 94547 | Date Analyzed: 2012-08-29 | Analyzed By: RL
Prep Batch: 80112 | QC Preparation: 2012-08-29 | Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	255	mg/Kg	1	250	<0.193	102	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	253	mg/Kg	1	250	<0.193	101	90 - 110	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: 307400

QC Batch: 94547 | Date Analyzed: 2012-08-29 | Analyzed By: RL
Prep Batch: 80112 | QC Preparation: 2012-08-29 | Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1350	mg/Kg	5	1250	93.6	100	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	1390	mg/Kg	5	1250	93.6	104	80 - 120	3	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 94547 | Date Analyzed: 2012-08-29 | Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/Kg	25.0	25.0	100	90 - 110	2012-08-29

Standard (CCV-2)

QC Batch: 94547 | Date Analyzed: 2012-08-29 | Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/Kg	25.0	25.2	101	90 - 110	2012-08-29

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

LAB Order ID # 12082220

Page _____ of _____

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: Nova Safety & Env Phone #: 432-520-7720

Address: (Street, City, Zip) 2057 Commerce Fax #: 432-520-7701

Contact Person: Carmella Rayent E-mail: clayton@novatraining.cc

Invoice to: (If different from above) Slb curtstanley@slb.com

Project #: Project Name: Line 217-3

Project Location (including state): Lea Co. NM Sampler Signature: Carmella Rayent

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
307400	RP Floor @ 10'	1	4oz		X							X		8/21/2012	0900
307401	RP West S/W-Face 3'	1	4oz		X							X		8/21/2012	0920

LAB # (LAB USE ONLY)	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	Na, Ca, Mg, K, TDS, EC	Turn Around Time if different from standard	Hold
307400																			X		
307401																			X		

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
Carmella Rayent	Nova	8/22/12	7:00	[illegible]	Nova	8/22/12	900	INST ____ OBS -4.1 °C COR ____ °C
[illegible]	Nova	8/22/12	9:08	A. Herrera TA		8/22/12	9:08	INST ____ OBS ____ °C COR ____ °C
								INST ____ OBS ____ °C COR ____ °C

LAB USE ONLY

Intact Y / N

Headspace Y / N / NA

Log-In-Review AR

REMARKS:

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

Carrier # Carry in

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

APPENDIX B:
Photographs

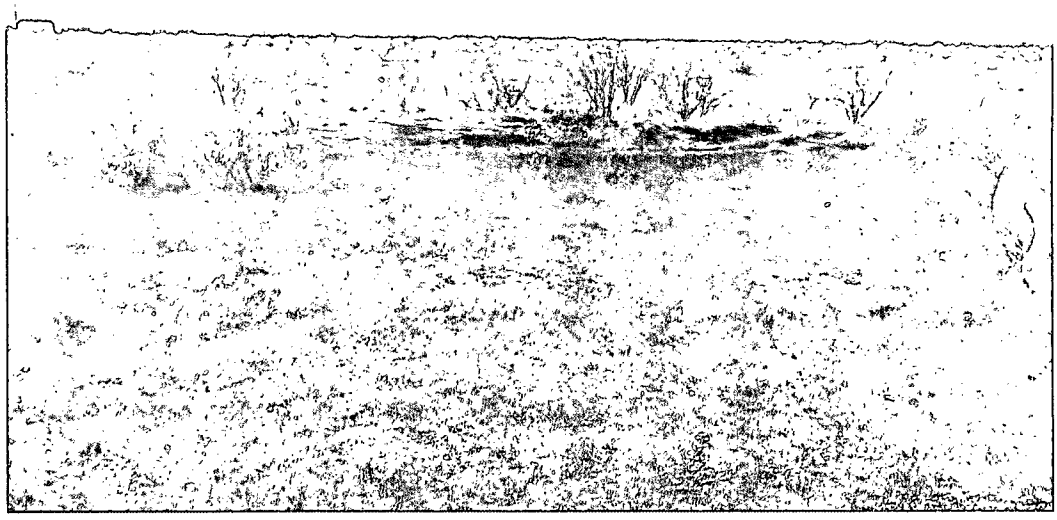
NOVA
safety and environmental

Photographic Documentation

Client: Southern Union Gas Services
Project Name: Line 2A-3

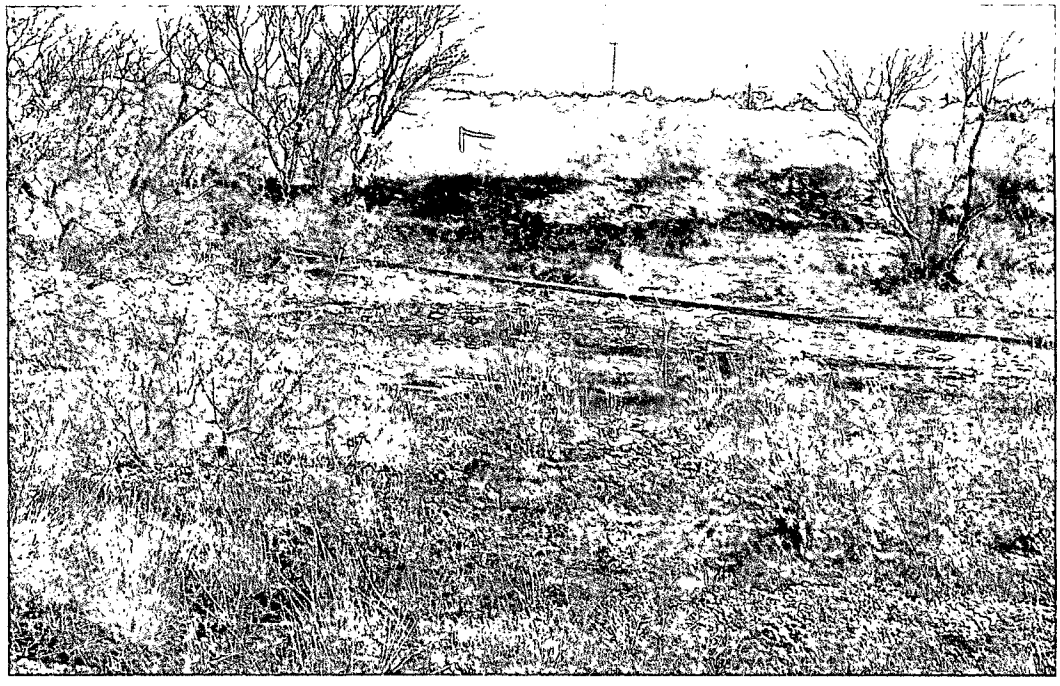
Prepared by: NOVA
Location: Lea County, New Mexico

Photograph No. 1



Description:
View of the initial release.

Photograph No. 2



Description:
View of the initial release.

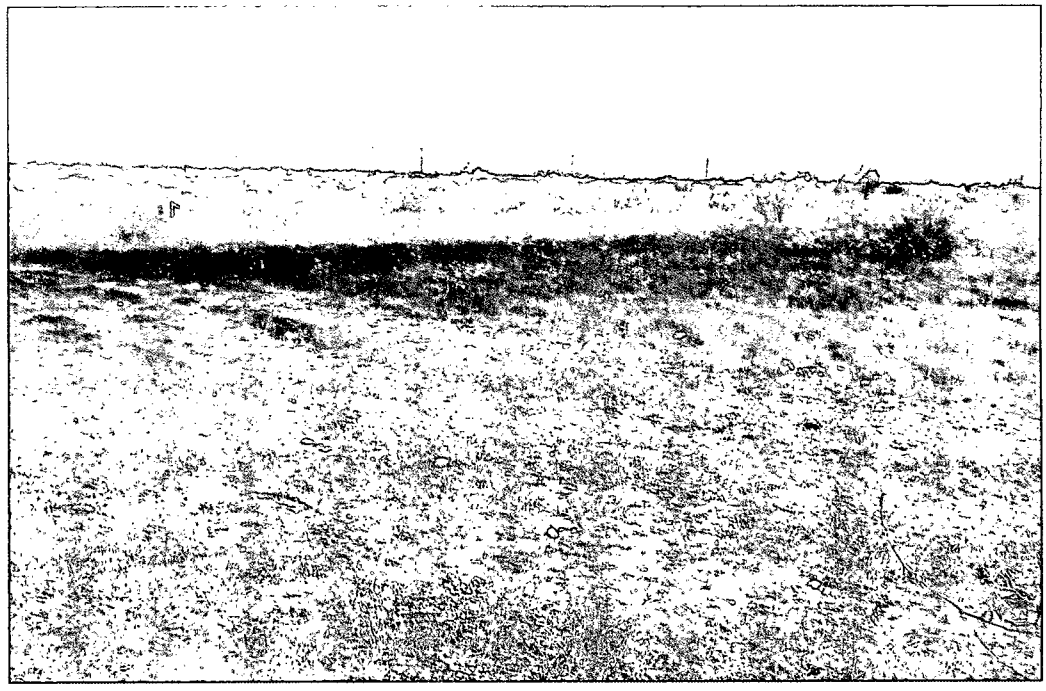
NOVA
safety and environmental

Photographic Documentation

Client: Southern Union Gas Services
Project Name: Line 2A-3

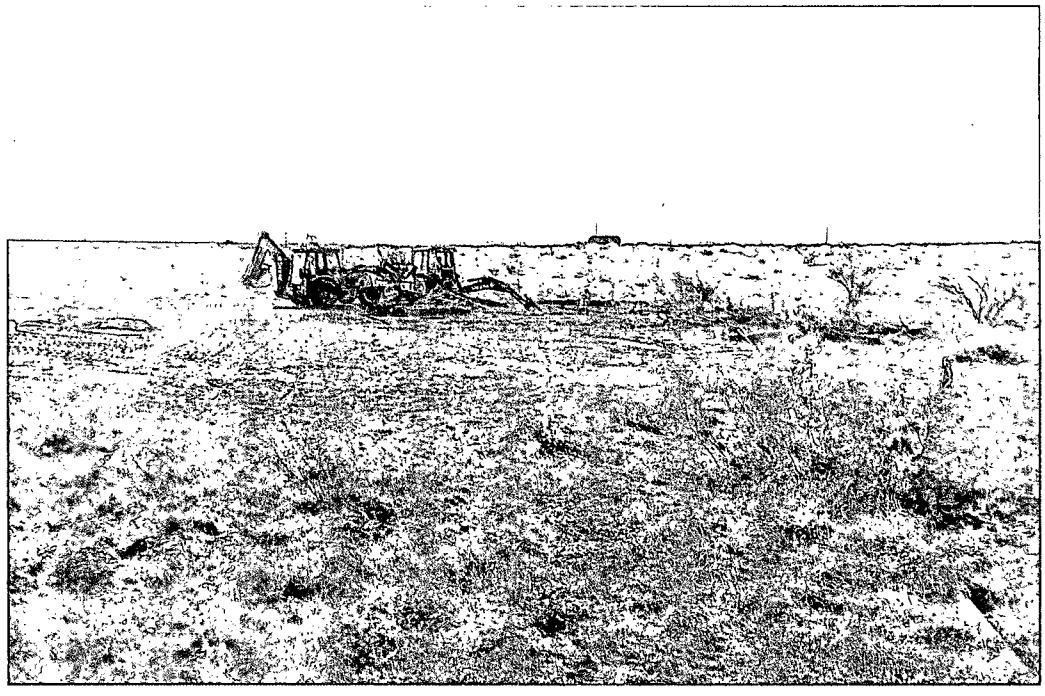
Prepared by: NOVA
Location: Lea County, New Mexico

Photograph No. 3



Description:
View of the initial release.

Photograph No. 4



Description:
View of the initial excavation activities at the release point.

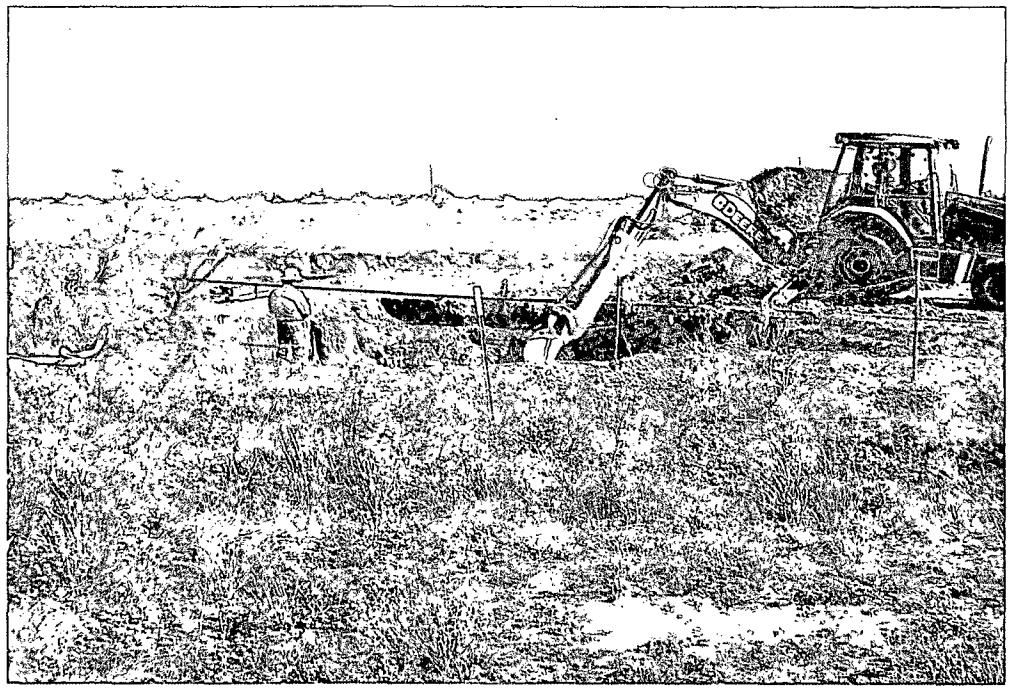
NOVA
safety and environmental

Photographic Documentation

Client: Southern Union Gas Services
Project Name: Line 2A-3

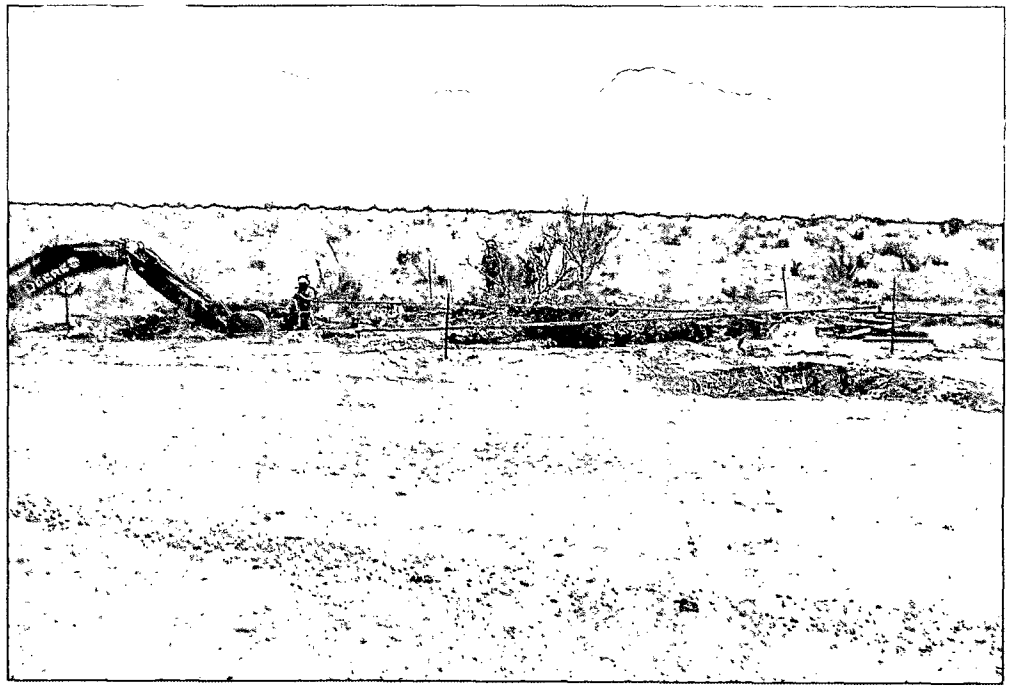
Prepared by: NOVA
Location: Lea County, New Mexico

Photograph No. 5



Description:
View of excavation activities.

Photograph No. 6



Description:
View of excavation activities.

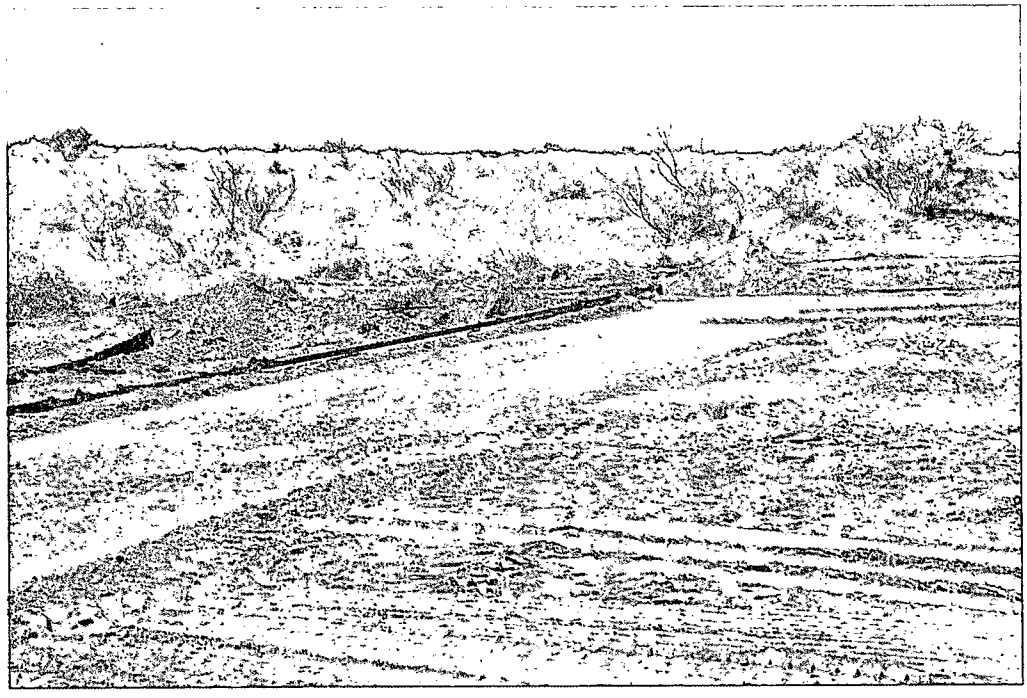
NOVA
safety and environmental

Photographic Documentation

Client: Southern Union Gas Services
Project Name: Line 2A-3

Prepared by: NOVA
Location: Lea County, New Mexico

Photograph No. 7



Description:
View of backfilling activities.

APPENDIX C:
Soil Disposal Manifest

DOOM LAND FARM, L.L.C.
BOX 1271
JAL, N.M. 88252
575-395-3537 903-715-8491
903-715-0471

EXEMPT WASTE MANIFEST
FOR HYDROCARBON
IMPACTED SOIL
E.I.N.# 80 0[illegible]1330
PERMIT #NM-01-0033

JOB INVOICE #: _____

OIL/GAS OPERATOR: Southern Union Gas

LOCATION/LEASE:

2A-3

TRUCKING CO. AZTECA TRUCKING

DRIVER ISAURO SILVA DATE 9-27-12

LOADS 8 CYDS/LOAD 12 TOTAL CYDS 96 yds

TRUCKING CO. _____

DRIVER _____ DATE

LOADS _____ CYDS/LOAD _____ TOTAL CYDS

TRUCKING CO.

DRIVER _____ DATE

LOADS _____ CYDS/LOAD _____ TOTAL CYDS

1

DOOM LAND FARM, L.L.C.
BOX 1271
JAL, N.M. 88252
575-395-3537 903-715-8491
903-715-0471

EXEMPT WASTE MANIFEST
FOR HYDROCARBON
IMPACTED SOIL
E.I.N.# 80 0[illegible]1030
PERMIT #NM-01-0033

JOB INVOICE #: _____

OIL/GAS OPERATOR: Souther Union Gas

LOCATION/LEASE:

2A-3

TRUCKING CO. M. R. McCracken Trucking #207

DRIVER Michael R. McCracken DATE 9/27/12

LOADS 8 CYDS/LOAD 12 TOTAL CYDS 96

TRUCKING CO. _____

DRIVER _____ DATE

LOADS _____ CYDS/LOAD _____ TOTAL CYDS

TRUCKING CO.

DRIVER _____ DATE

LOADS _____ CYDS/LOAD _____ TOTAL CYDS

NMOCD

Caliche IIII

DOOM LAND FARM, L.L.C.
BOX 1271
JAL, N.M. 88252
575-395-3537 903-715-8491
903-715-0471

EXEMPT WASTE MANIFEST
FOR HYDROCARBON
IMPACTED SOIL
E.I.N.# 80 0[illegible]30
PERMIT #NM-01-0033

JOB INVOICE #: _____

OIL/GAS OPERATOR: Southern Union Gas

LOCATION/LEASE:
line 2A-3

TRUCKING CO. M.R. McCracken Trucking #207

DRIVER Michael R. McCracken DATE 09/26/2012

LOADS IIII CYDS/LOAD 12 yd, TOTAL CYDS _____

TRUCKING CO. _____

DRIVER _____ DATE _____

LOADS _____ CYDS/LOAD _____ TOTAL CYDS _____

TRUCKING CO. _____

DRIVER _____ DATE _____

LOADS _____ CYDS/LOAD _____ TOTAL CYDS _____

1

Nova

DOOM LAND FARM, L.L.C.
BOX 1271
JAL, N.M. 88252
575-395-3537 903-715-8491
903-715-0471

EXEMPT WASTE MANIFEST
FOR HYDROCARBON
IMPACTED SOIL
E.I.N.# 80 [illegible] 30
PERMIT #NM-01-0033

JOB INVOICE #: _____

OIL/GAS OPERATOR: Southern Union Gas

LOCATION/LEASE:

2A-3

TRUCKING CO. Yañez

DRIVER Jesus Yañez DATE 9-26-12
Jesus M. Yañez

LOADS 7 CYDS/LOAD 12 TOTAL CYDS _____

TRUCKING CO. _____

DRIVER _____ DATE _____

LOADS _____ CYDS/LOAD _____ TOTAL CYDS _____

TRUCKING CO. _____

DRIVER _____ DATE _____

LOADS _____ CYDS/LOAD _____ TOTAL CYDS _____

Agent: [signature] Owner

Calichi - IIII
O/D - IIIIII

DOOM LAND FARM, L.L.C.
BOX 1271
JAL, N.M. 88252
575-395-3537 903-715-8491
903-715-0471

EXEMPT WASTE MANIFEST FOR HYDROCARBON IMPACTED SOIL

E.I.N.# 80 [illegible]30
PERMIT #NM-01-0033

JOB INVOICE #: _____

OIL/GAS OPERATOR: Saudern Union Gas

LOCATION/LEASE:

Line 2A-3

TRUCKING CO. Rodriguez Trucking

DRIVER Albert Rodriguez DATE 9-26-12

O/D # LOADS 7 CYDS/LOAD 12 TOTAL CYDS _____

TRUCKING CO. _____

DRIVER _____ DATE _____

LOADS _____ CYDS/LOAD _____ TOTAL CYDS _____

TRUCKING CO. _____

DRIVER _____ DATE _____

LOADS _____ CYDS/LOAD _____ TOTAL CYDS _____

1

Agent: [signature] Nova

DOOM LAND FARM, L.L.C.
BOX 1271
JAL, N.M. 88252
575-395-3537 903-715-8491
903-715-0471

EXEMPT WASTE MANIFEST
FOR HYDROCARBON
IMPACTED SOIL
E.I.N.# 80 0[illegible]30
PERMIT #NM-01-0033

JOB INVOICE #: _____

OIL/GAS OPERATOR: Southern Union Gas

LOCATION/LEASE: 2A-3

X TRUCKING CO. AZTECA TRUCKING

DRIVER ISAURO SILVA DATE 7-26-12

LOADS 7 CYDS/LOAD 12 TOTAL CYDS _____

TRUCKING CO. _____

X DRIVER _____ DATE _____

LOADS _____ CYDS/LOAD _____ TOTAL CYDS _____

TRUCKING CO. _____

X DRIVER _____ DATE _____

LOADS _____ CYDS/LOAD _____ TOTAL CYDS _____

Agent: [signature] NOVA

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EXEMPT WASTE MANIFEST
FOR HYDROCARBON
IMPACTED SOIL
E.I.N.# 80 [illegible]30
PERMIT #NM-01-0033

JOB INVOICE #: _____

OIL/GAS OPERATOR: Southern Union Gas

LOCATION/LEASE:

2A-3

TRUCKING CO. RAMER Trucking

DRIVER Cristo Hernandez DATE 9-26-12

LOADS 7 CYDS/LOAD 12 TOTAL CYDS _____

TRUCKING CO. _____

DRIVER _____ DATE _____

LOADS _____ CYDS/LOAD _____ TOTAL CYDS _____

TRUCKING CO. _____

DRIVER _____ DATE _____

LOADS _____ CYDS/LOAD _____ TOTAL CYDS _____

Alberto Izquierrez 1

Agent: Alberto Nova

APPENDIX D:
Release Notification and Corrective Action
(Form-C-141)

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-14
Revised October 10, 200

Submit 2 Copies to appropriat
District Office in accordanc
with Rule 116 on bac
side of for

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Rep

Name of Company	Southern Union Gas Services	Contact	Rose Slade
Address	801 S. Loop 464, Monahans, TX 79756	Telephone No.	432-940-5147
Facility Name	Line 2A-3	Facility Type	Natural Gas Pipeline

Surface Owner Gerald Doom		Lease No. 30-025-38822

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	22	24S	37E					Lea

Latitude 32 degrees 12.235' North Longitude 103 degrees 08.699' West

NATURE OF RELEASE

Type of Release Natural Gas, Crude Oil and Produced Water	Volume of Release 7 BBLS	Volume Recovered None
Source of Release 6 inch Natural Gas Pipeline	Date and Hour of Occurrence Unknown	Date and Hour of Discovery June 25, 2012 – 0945 hours
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
A six (6)-inch low pressure natural gas pipeline developed a leak, resulting in a release of natural gas, crude oil and produced water. During initial response activities the pipeline was shut-in to mitigate the release. Following initial response activities, the affected pipeline segment will be replaced with 6 inch poly line and returned to service.

Describe Area Affected and Cleanup Action Taken.*
An area of pasture land measuring approximately 13,000 square feet was affected by airborne liquids. An area of pasture land measuring approximately 1,000 square feet was affected by liquids flowing from the release point. The release will be remediated according to NMOCD regulatory guidelines.

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: Rose L. Slade

Printed Name: Rose L. Slade

Title: EHS Compliance Specialist

E-mail Address: rose.slade@sug.com

Date: June 27, 2012 Phone: 432-940-5147

OIL CONSERVATION DIVISION

Approved by ~~District Supervisor~~ ENV SPECIALIST: Jeff Dickens

Approval Date: 7/2/12 Expiration Date: 9/2/12

Conditions of Approval: SUBMIT FINAL C-141 BY 9/2/12

Attached ☐ IRP-7-12-2836

* Attach Additional Sheets If Necessary