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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Southern Union Gas Services	Contact: Rose Slade
Address: P.O. Box 1226, Jal New Mexico 88252	Telephone No.: 817.302.9716 or 432.940.5147
Facility Name Lea County Field Department	Facility Type: Cal "B" Line

Surface Owner: State	Mineral Owner	API No. 30-025-28822

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	12	26S	36E					Lea

Latitude 32 03.896' **Longitude** 103 13.024'

NATURE OF RELEASE

Type of Release: Natural Gas, Oil, and Produced Water	Volume of Release: 651,000 mcf natural gas, 271 barrels produced water, 25 barrels condensate	Volume Recovered: 230 barrels produced water, 20 barrels condensate
Source of Release: Pipeline	Date and Hour of Occurrence: 3/23/2006 @ 18:15	Date and Hour of Discovery 3/23/2006 @ 18:20
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Gary Wink	
By Whom?	Date and Hour 3/23/2006 @ 18:50	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

HOBBS OCD
MAY 10 2013
RECEIVED

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* A hole developed in the 16 inch pipeline and released the fluids and gas. At the time of the release the pipeline was being pigged and an estimated 2,700 barrels of fluid was coming into the receiver at approximately 70 psi. Once the release was discovered a backhoe was dispatched to dam up and contain the fluid until the line could be blown down.

Describe Area Affected and Cleanup Action Taken.* The area was excavated, soil samples were collected from the excavated areas and submitted to the laboratory for benzene, BTEX, TPH and chloride analysis. Laboratory analytical results indicated benzene, BTEX, TPH and chloride concentrations were less than NMOCD regulatory guidelines. The excavated areas were backfilled and the site was restored to original conditions. Please reference NOVA Safety and Environmental Soil Investigation Summary and Site Closure Request dated May 2013, for further details.

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 Slade

Printed Name: Rose L. Slade

Title: Environmental Specialist

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

Date:5/13/2013 Phone: 432.940.5147

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Geoffrey Leking

Environmental Specialist

Approval Date: 5/13/13 Expiration Date: —

Conditions of Approval: —

Attached ☐
1RP-804

* Attach Additional Sheets If Necessary

MAY 20 2013

SOIL INVESTIGATION SUMMARY

AND SITE

CLOSURE REQUEST

Southern Union Gas Services
Cal "B" Line Historical Release Site
Lea County, New Mexico
UNIT LTR "B" (NW ¼ /NE ¼), Section 12, Township 26 South, Range 36 East
Latitude 32° 03.896' North, Longitude 103° 13.024' West
NMOCD Reference # 1RP-804

NOVA
safety and environmental

Prepared For:

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

HOBBS OCD
MAY 10 2013
RECEIVED

Prepared By:

NOVA Safety & Environmental
2057 Commerce
Midland, Texas 79703

May 2013

Camille J. Bryant
Project Manager

Brittan K. Byerly, P.G.
President

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APPENDICES

1.0 INTRODUCTION

Nova Safety & Environmental (NOVA), on behalf of Southern Union Gas Services (SUGS), has prepared this Soil Investigation Summary and Site Closure Request for the Cal "B" Line Historical Release Site. The legal description of the release site is Unit Letter "B" (NW ¼ NE ¼), Section 12, Township 26 South, Range 36 East, in Lea County, New Mexico. The property affected by the release is owned by The State of New Mexico and is administered by the State Land Office (ROE-2241). The release site GPS coordinates are 32° 03.896' North and 103° 13.024' West. Please reference Figure 1 for a Site Location Map and Figure 2 for a Site Details and Confirmation Soil Sample Locations Map. The Release Notification and Corrective Action (Form C-141) is provided as Appendix C.

On March 23, 2006, SUGS discovered a release of condensate, produced water and natural gas had occurred from a sixteen (16) inch steel pipeline during pigging activities. The cause of the release was attributed to failure of a segment of the steel pipeline. SUGS submitted the Release Notification and Corrective Action (Form C-141) to the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office on March 27, 2006. The C-141 indicated approximately twenty-five (25) barrels of condensate, two hundred seventy-one (271) barrels of produced water and 651,000 mcf's of natural gas were released from the pipeline, with approximately two hundred thirty (230) barrels of produced water and twenty (20) barrels of condensate recovered. General photographs of the site are provided as Appendix B.

SUGS has researched and identified various historical release sites located in New Mexico. At the request of SUGS, NOVA has reviewed the historical data for these sites and conducted the necessary activities to ensure the sites meet the criteria for closure in accordance with NMOCD regulatory guidelines.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Office of the State Engineer (NMOSE) database did not identify the average depth to groundwater information for Section 12, Township 26 South, Range 36 East. A reference map utilized by the NMOCD indicated depth to groundwater at the release site should be encountered at approximately two hundred (200) feet below ground surface (bgs). The depth to groundwater at the Cal "B" Line Historical Release Site results in a score of zero (0) 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 Cal "B" Line Historical Release Site has ranking score of zero (0). Based on this score, the soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene – 10 mg/Kg (ppm)
- BTEX – 50 mg/Kg (ppm)
- TPH – 5,000 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 February 18, 2013, NOVA commenced soil investigation activities at the Cal "B" Line Historical Release Site. Based on historical documentation and stressed vegetation, ten (10) trenches were excavated in the caliche road. The trenches were excavated to approximately two (2) feet bgs. Due to the trenches being located in a highly travelled road, soil samples were collected and the trenches were backfilled. In addition, four (4) trenches were excavated on the south and north sides of the caliche road and one (1) trench was installed at the release point. The trenches were completed to a total depth of approximately fourteen (14) feet bgs, with the exception of the release point trench and one trench located south of SUGS California "B" pipeline, which were completed to a total depth of approximately thirteen (13) feet bgs. The depth of the trenches was determined on review of historical data and by field observations conducted during excavation activities. The ten (10) trenches installed in the caliche road were installed from east to west approximately fifty (50) linear feet apart. Please reference Figure 2 for site details.

On February 18, 2013, ten (10) soil samples (Road 1 @ 2', Road 2 @ 2', Road 3 @ 2', Road 4 @ 2', Road 5 @ 2', Road 6 @ 2', Road 7 @ 2', Road 8 @ 2', Road 9 @ 2', and Road 10 @ 2') were collected from the floor of the trenches along the caliche road. On completion of soil sampling activities the trenches were backfilled. The soil samples were submitted to the laboratory for determination of concentrations of benzene, toluene, ethyl-benzene, and xylene (BTEX), total petroleum hydrocarbons (TPH), and chlorides using EPA SW-846 8012b, 8015M, and E 300, respectively. The analytical results indicated benzene, BTEX and TPH concentrations were less than the appropriate laboratory method detection limits (MDL) for all submitted soil samples. Chloride concentrations ranged from 12.9 mg/Kg for soil sample Road 1 @ 2' to 132 mg/Kg for soil sample Road 3 @ 2'. A review of analytical results indicated benzene, BTEX, TPH, and chloride concentrations were less than NMOCD regulatory guidelines. Table 1 summarizes the Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil. Laboratory analytical reports are provided as Appendix A

On February 19 and 20, 2013, four (4) trenches were excavated on the south side of the caliche road and the SUGS California "B" pipeline. The first trench was excavated in a north-south direction. Four (4) soil samples (South of Line NW @ 5', South of Line NW @ 10', South of Line NW @ 13', and South of Road Floor @ 14') were collected from the trench and submitted to the laboratory for analysis. On completion of soil sampling activities the trench was backfilled. Laboratory analytical results indicated benzene, BTEX, and TPH concentrations were less than the appropriate laboratory MDL for all submitted soil samples with the exception of soil sample South of Road Floor @ 14', which exhibited a TPH concentration of 45.9 mg/Kg. Chloride concentrations ranged from 2.42 mg/Kg for soil sample South of Line NW @ 10' to 176 mg/Kg for soil sample South of Road Floor @ 14'. A review of analytical results indicated

benzene, BTEX, TPH, and chloride concentrations were less than NMOCD regulatory guidelines. Please reference Figure 2 for soil sample locations.

The second trench was excavated south of the SUGS California "B" pipeline in an east-west direction. Four (4) soil samples (South of Line EW @ 5', South of Line EW @ 10', South of Line EW @ 13', and South of Road F3 @ 14') were collected from the trench and submitted to the laboratory for analysis. Laboratory analytical results indicated benzene, BTEX, and TPH concentrations were less than the appropriate laboratory MDL for all submitted soil samples. Chloride concentrations ranged from 2.56 mg/Kg for soil sample South of Line EW @ 10' to 31.9 mg/Kg for soil sample South of Line EW @ 13'. A review of analytical results indicated benzene, BTEX, TPH, and chloride concentrations were less than NMOCD regulatory guidelines (Table 1).

The third trench was excavated on the south side of the SUGS California "B" pipeline in an east-west direction. Four (4) soil samples (South of Line WW @ 5', South of Line WW @ 10', South of Line WW @ 13' and South of Road F2 @ 14') were collected from the trench and submitted to the laboratory for analysis. On completion of soil sampling activities the trench was backfilled. Laboratory analytical results indicated benzene, BTEX, and TPH concentrations were less than the appropriate laboratory MDL for all submitted soil samples. Chloride concentrations ranged from 9.89 mg/Kg for soil sample South of Road F2 @ 14' to 529 mg/Kg for soil sample South of Line WW @ 10'.

The final trench was excavated on the south side of the SUGS California "B" pipeline in a north-south direction. Three (3) soil samples (South of Road SW @ 5', South of Road SW @ 10', and South of Road SW @ 13') were collected from the trench and submitted to the laboratory for analysis. On completion of soil sampling activities the trench was backfilled. Laboratory analytical results indicated benzene, BTEX, and TPH concentrations were less than the appropriate laboratory MDL for all submitted soil samples. Chloride concentrations ranged from 3.52 mg/Kg for soil sample South of Road SW @ 10' to 5.70 mg/Kg for soil sample South of Road SW @ 13'. A review of analytical results indicated benzene, BTEX, TPH, and chloride concentrations were less than NMOCD regulatory guidelines for all submitted soil samples (Table 1).

On February 20 and 21, 2013, four (4) trenches were excavated on the north side of the caliche road. The first trench was excavated in a north-south direction. Four (4) soil samples (North of Road Floor @ 14', North of Road SW @ 5', North of Road SW @ 10', and North of Road SW @ 13') were collected from the trench and submitted to the laboratory for analysis. On completion of soil sampling activities the trench was backfilled. Laboratory analytical results indicated benzene, BTEX, and TPH concentrations were less than the appropriate laboratory MDL for all submitted soil samples with the exception of soil sample North of Road SW @ 13', which exhibited a TPH concentration of 84.5 mg/Kg. Chloride concentrations ranged from 5.51 mg/Kg for soil sample North of Road SW @ 10' to 48.8 mg/Kg for soil sample North of Road SW @ 13'. A review of analytical results indicated benzene, BTEX, TPH, and chloride concentrations were less than NMOCD regulatory guidelines for all submitted soil samples. Please reference Figure 2 for soil sample locations.

The second trench was excavated on the north side of the caliche road in a north-south direction. Four (4) soil samples (North of Road NW @ 5', North of Road NW @ 10', North of Road NW

@ 13' and North of Road F2@ 14') were collected from the trench and submitted to the laboratory for analysis. On completion of soil sampling activities the trench was backfilled. Laboratory analytical results indicated benzene, BTEX, and TPH concentrations were less than the appropriate laboratory MDL for all submitted soil samples. Chloride concentrations ranged from 6.49 mg/Kg for soil sample North of Road NW @ 13' to 17.3 mg/Kg for soil sample North of Road NW @ 10'. A review of analytical results indicated benzene, BTEX, TPH, and chloride concentrations were less than NMOCD regulatory guidelines for all submitted soil samples.

The third trench on the north side of the road was excavated in an east-west direction. Four (4) soil samples (North of Road WW @ 5', North of Road WW @ 10', North of Road WW @ 13', and North of Road F3 @ 14') were collected from the trench and submitted to the laboratory for analysis. On completion of soil sampling activities the trench was backfilled. Laboratory analytical results indicated benzene, BTEX, and TPH concentrations were less than the appropriate laboratory MDL for all submitted soil samples. Chlorides concentrations ranged from 10.6 mg/Kg for soil sample North of Road F3 @ 14' to 33.0 mg/Kg for soil sample North of Road WW @ 5'. A review of analytical results indicated benzene, BTEX, TPH, and chloride concentrations were less than NMOCD regulatory guidelines for all submitted soil samples (Table1).

The final trench on the north side of the road was excavated in an east-west direction. Four (4) soil samples (North of Road EW @ 5', North of Road EW @ 10', North of Road EW @ 13', and North of Road F4 @ 14') were collected from the trench and submitted to the laboratory for analysis. On completion of soil sampling activities the trench was backfilled. Laboratory analytical results indicated benzene, BTEX, and TPH concentrations were less than the appropriate laboratory MDL for all submitted soil samples. Chloride concentrations ranged from 27.8 mg/Kg for soil sample North of Road EW @ 5' to 73.0 mg/Kg for soil sample North of Road EW @ 10'. A review of analytical results indicated benzene, BTEX, TPH, and chloride concentrations were less than NMOCD regulatory guidelines for all submitted soil samples.

In addition, a trench was excavated on the south side of the SUGS California "B" pipeline at the inferred release point. The trench was excavated in a north-south direction. Three (3) soil samples (RP @ 5', RP @ 10', and RP @ 13') were collected from the trench and submitted to the laboratory for analysis. On completion of soil sampling activities the trench was backfilled. Laboratory analytical results indicated benzene, BTEX, and TPH concentrations were less than the appropriate laboratory MDL for all submitted soil samples. Chloride concentrations ranged from 6.43 mg/Kg for soil sample RP @ 5' to 28.0 mg/Kg for soil sample RP @ 10'. A review of analytical results indicated benzene, BTEX, TPH, and chloride concentrations were less than NMOCD regulatory guidelines for all submitted soil samples.

On March 27, 2013, SUGS and NOVA representatives met with a NMOCD Hobbs District Office representative to present the results of the soil investigation, and request closure approval for the site. The NMOCD Hobbs District Office representative granted verbal approval to close the site.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to Permian Basin Environmental Lab, LP, 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 Soil Investigation Summary and Site Closure Request and request the NMOCD grant final closure to the Cal "B" Line Historical Release Site.

6.0 LIMITATIONS

NOVA Safety and Environmental has prepared this Soil Investigation 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.

7.0 DISTRIBUTION:

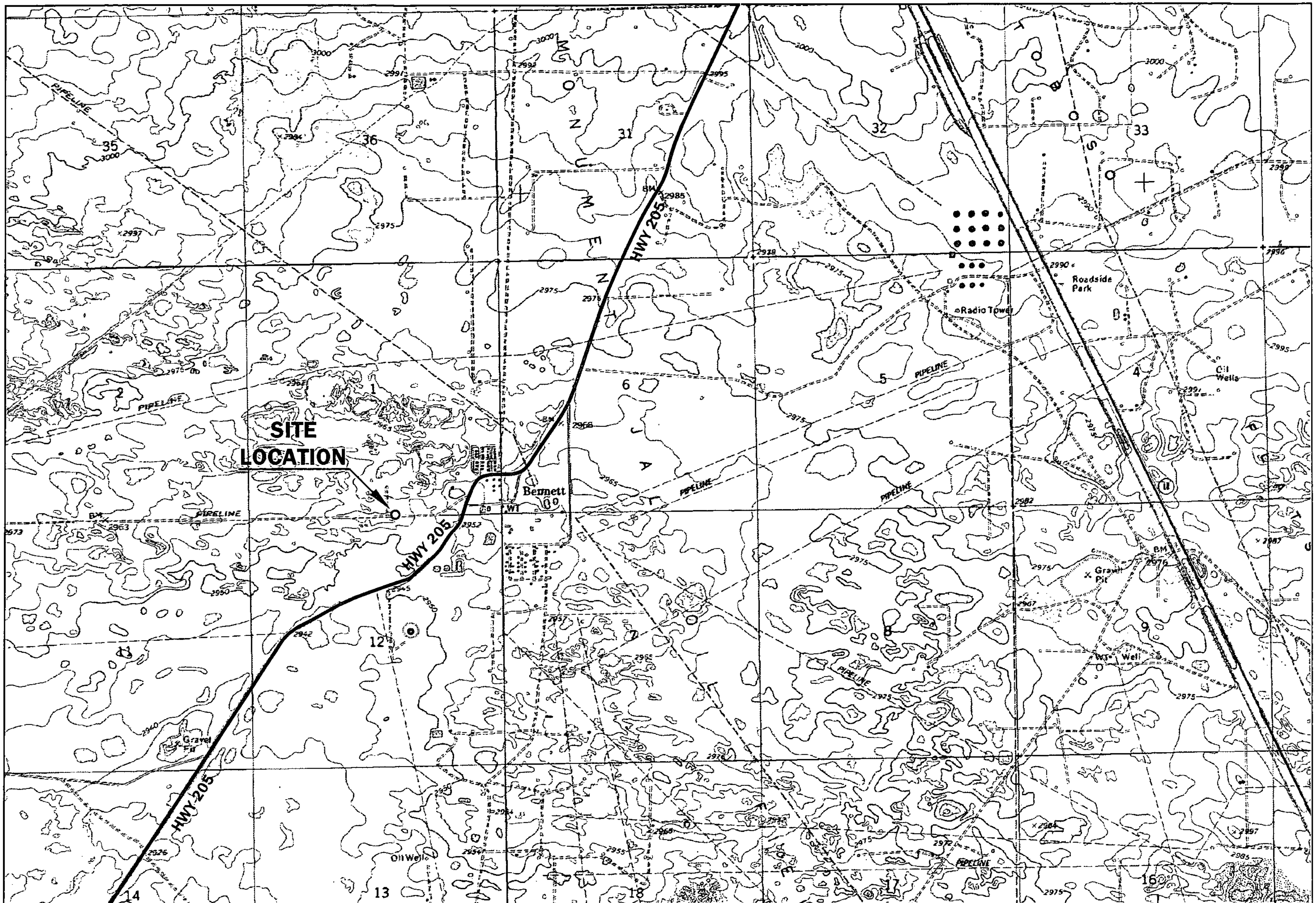
Copy 1: Geoffrey Leking
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 1)
1625 French Drive
Hobbs, New Mexico 88240

Copy 2: New Mexico State Land Office
P.O. Box 1148
Santa Fe, New Mexico, 87504-1148

Copy 3: Rose Slade
Southern Union Gas Services
801 South Loop 464
Monahans, Texas 79756

Copy 4: Nova Safety & Environmental
2057 Commerce Street
Midland, Texas 79703

FIGURES



Legend:

Mapped edited and Published by the Geological Survey
Control by USGS & USC & GS

Map Re-edited by Nova Safety and Environmental for the purpose of Site Location Maps.

Planimetry by Photogrammetric methods from aerial Photographs taken 1958. Topography by Planetabe Surveys 1961.

Fine red dashed lines indicate selected fence lines.

This map Complies with National Map Accuracy Standards

4000 2000 0 2000 4000

Distance in Feet

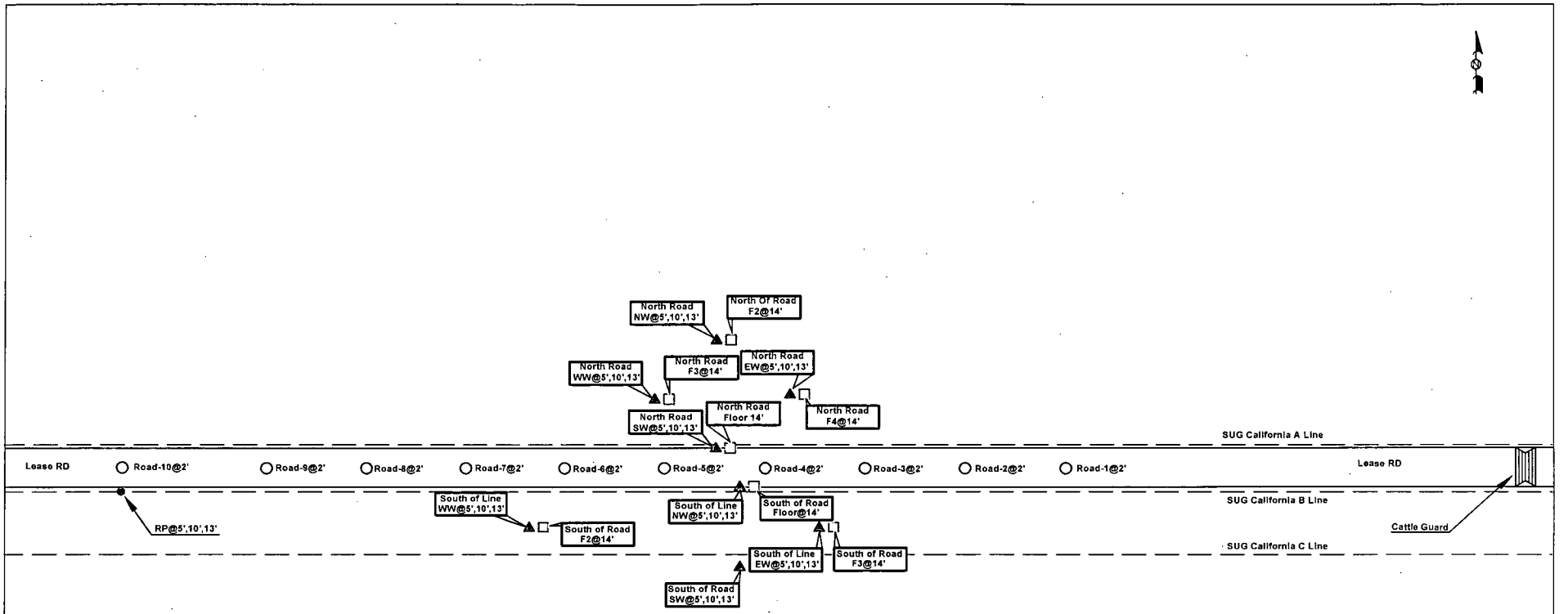
Figure 1
Site Location Map
Southern Union Gas Service
Cal B State
Lea County, NM

NOVA
safety and environmental

2057 Commerce Drive
Midland, Texas 79703
432.520.7720

www.novasafetyandenvironmental.com

February 28, 2013	Scale: 1" - 4000'	CAD By: CAS	Checked By:
Lat. N 32° 3' 53.74"	Long. W 103° 13' 1.44"		



Legend:

- Sidewall Soil Sample Location
- Floor Soil Sample Location
- Road Samples
- Release Point
- Pipeline

Figure 2
Site Details and Confirmation
Soil Sample Location Map
Southern Union Gas Service
1RP-804
Cal B State
Lea County, NM

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

April 19, 2013	Scale: 1" - 50'	CAD By: CAS	Checked By:

Lat. N 32° 3' 53.74" Long. W 103° 13' 1.44"

TABLES

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

SOUTHERN UNION GAS SERVICES
CAL"B" LINE HISTORICAL RELEASE SITE
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE # 1RP-804

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	m, p - XYLENES	o - XYLENE	TOTAL BTEX	TPH GRO C_6-C_{12}	TPH DRO C_{12}-C_{28}	TPH ORO C_{28}-C_{35}	TOTAL TPH C_6-C_{35}	CHLORIDE
Road 1 @ 2'	02/18/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.5	<25.5	<25.5	<25.5	12.9
Road 2 @ 2'	02/18/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.5	<25.5	<25.5	<25.5	104
Road 3 @ 2'	02/18/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.3	<25.3	<25.3	<25.3	132
Road 4 @ 2'	02/18/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.5	<25.5	<25.5	<25.5	24.2
Road 5 @ 2'	02/18/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.3	<25.3	<25.3	<25.3	91.3
Road 6 @ 2'	02/18/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.3	<25.3	<25.3	<25.3	22.0
Road 7 @ 2'	02/18/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.8	<25.8	<25.8	<25.8	26.8
Road 8 @ 2'	02/18/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.3	<25.3	<25.3	<25.3	95.1
Road 9 @ 2'	02/18/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.8	<25.8	<25.8	<25.8	39.6
Road 10 @ 2'	02/18/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.3	<25.3	<25.3	<25.3	45.3
South of Road Floor @ 14'	02/19/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<27.5	45.9	<27.5	45.9	176
South of Line NW @ 5'	02/19/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<26.0	<26.0	<26.0	<26.0	3.38
South of Line NW @ 10'	02/19/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.8	<25.8	<25.8	<25.8	2.42
South of Line NW @ 13'	02/19/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<27.5	<27.5	<27.5	<27.5	106
South of Line EW @ 5'	02/19/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.5	<25.5	<25.5	<25.5	3.91
South of Line EW @ 10'	02/19/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<26.6	<26.6	<26.6	<26.6	2.56
South of Line EW @ 13'	02/19/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<26.3	<26.3	<26.3	<26.3	31.9
South of Road F3 @ 14'	02/20/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.5	<25.5	<25.5	<25.5	9.58
South of Line WW @ 5'	02/20/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.8	<25.8	<25.8	<25.8	134
South of Line WW @ 10'	02/20/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<26.3	<26.3	<26.3	<26.3	529
South of Line WW @ 13'	02/20/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<27.5	<27.5	<27.5	<27.5	14.8
South of Road F2 @ 14'	02/20/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<27.8	<27.8	<27.8	<27.8	9.89
South of Road SW @ 5'	02/20/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.8	<25.8	<25.8	<25.8	4.12
South of Road SW @ 10'	02/20/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.8	<25.8	<25.8	<25.8	3.52
South of Road SW @ 13'	02/20/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<26.6	<26.6	<26.6	<26.6	5.70
North of Road Floor @ 14'	02/20/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<26.0	<26.0	<26.0	<26.0	46
North of Road SW @ 5'	02/20/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.8	<25.8	<25.8	<25.8	6.77
North of Road SW @ 10'	02/20/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.5	<25.5	<25.5	<25.5	5.51
North of Road SW @ 13'	02/20/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<26.0	34.6	49.9	84.5	48.8
North of Road NW @ 5'	02/21/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.5	<25.5	<25.5	<25.5	14.9

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

SOUTHERN UNION GAS SERVICES
CAL"B" LINE HISTORICAL RELEASE SITE
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE # 1RP-804

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	m, p - XYLENES	o - XYLENE	TOTAL BTEX	TPH GRO C_6-C_{12}	TPH DRO C_{12}-C_{28}	TPH ORO C_{28}-C_{35}	TOTAL TPH C_6-C_{35}	CHLORIDE
North of Road NW @ 10'	02/21/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.5	<25.5	<25.5	<25.5	17.3
North of Road NW @ 13'	02/21/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.5	<25.5	<25.5	<25.5	6.49
North of Road F2 @ 14'	02/21/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.5	<25.5	<25.5	<25.5	6.58
North of Road WW @ 5'	02/21/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.5	<25.5	<25.5	<25.5	33.0
North of Road WW @ 10'	02/21/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.5	<25.5	<25.5	<25.5	26.3
North of Road WW @ 13'	02/21/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<26.9	<26.9	<26.9	<26.9	19.6
North of Road F3 @ 14'	02/21/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<26.9	<26.9	<26.9	<26.9	10.6
North of Road EW @ 5'	02/21/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.5	<25.5	<25.5	<25.5	27.8
North of Road EW @ 10'	02/21/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.8	<25.8	<25.8	<25.8	73.0
North of Road EW @ 13'	02/21/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<26.0	<26.0	<26.0	<26.0	33.0
North of Road F4 @ 14'	02/21/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.8	<25.8	<25.8	<25.8	38.8
RP @ 5'	02/21/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.5	<25.5	<25.5	<25.5	6.43
RP @ 10'	02/21/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.8	<25.8	<25.8	<25.8	28.0
RP @ 13'	02/21/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.8	<25.8	<25.8	<25.8	26.1

APPENDICES

APPENDIX A:
Analytical Reports

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
10014 SCR 1213
Midland, TX 79706

PBELAB

Analytical Report

Prepared for:

Camille Bryant
Nova Safety & Environment
2057 Commerce
Midland, TX 79703

Project: SUG Historical Cal "B" Line 1RP-804
Project Number: 1RP-804
Location: Lea County New Mexico

Lab Order Number: 3B20002

NELAP ACCREDITED TNI LABORATORY

NELAP/TCEQ # T104704156-12-1

Report Date: 02/22/13

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
2057 Commerce	Project Number: 1RP-804	
Midland TX, 79703	Project Manager: Camille Bryant	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Road 1 @ 2'	3B20002-01	Soil	02/18/13 14:00	02-20-2013 08:10
Road 2 @ 2'	3B20002-02	Soil	02/18/13 14:10	02-20-2013 08:10
Road 3 @ 2'	3B20002-03	Soil	02/18/13 14:20	02-20-2013 08:10
Road 4 @ 2'	3B20002-04	Soil	02/18/13 14:30	02-20-2013 08:10
Road 5 @ 2'	3B20002-05	Soil	02/18/13 14:40	02-20-2013 08:10
Road 6 @ 2'	3B20002-06	Soil	02/18/13 14:50	02-20-2013 08:10
Road 7 @ 2'	3B20002-07	Soil	02/18/13 15:00	02-20-2013 08:10
Road 8 @ 2'	3B20002-08	Soil	02/18/13 15:10	02-20-2013 08:10
Road 9 @ 2'	3B20002-09	Soil	02/18/13 15:20	02-20-2013 08:10
Road 10 @ 2'	3B20002-10	Soil	02/18/13 15:30	02-20-2013 08:10

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
2057 Commerce	Project Number: 1RP-804	
Midland TX, 79703	Project Manager: Camille Bryant	

Road 1 @ 2'

3B20002-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*117 %*	*75-125*		*EB32203*	*02/21/13*	*02/21/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*76.2 %*	*75-125*		*EB32203*	*02/21/13*	*02/21/13*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**12.9**	1.02	mg/kg dry	1	EB32201	02/22/13	02/22/13	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	EB32103	02/20/13	02/21/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	EB32102	02/20/13	02/20/13	8015M	
>C12-C28	ND	25.5	mg/kg dry	1	EB32102	02/20/13	02/20/13	8015M	
>C28-C35	ND	25.5	mg/kg dry	1	EB32102	02/20/13	02/20/13	8015M	
Surrogate: 1-Chlorooctane		*76.0 %*	*70-130*		*EB32102*	*02/20/13*	*02/20/13*	*8015M*	
Surrogate: o-Terphenyl		*89.5 %*	*70-130*		*EB32102*	*02/20/13*	*02/20/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.5	mg/kg dry	1	[CALC]	02/20/13	02/20/13	8015M	

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
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Road 2 @ 2'

3B20002-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*117 %*	*75-125*		*EB32203*	*02/21/13*	*02/21/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*53.2 %*	*75-125*		*EB32203*	*02/21/13*	*02/21/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**104**	1.02	mg/kg dry	1	EB32201	02/22/13	02/22/13	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	EB32103	02/20/13	02/21/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	EB32102	02/20/13	02/20/13	8015M	
>C12-C28	ND	25.5	mg/kg dry	1	EB32102	02/20/13	02/20/13	8015M	
>C28-C35	ND	25.5	mg/kg dry	1	EB32102	02/20/13	02/20/13	8015M	
Surrogate: 1-Chlorooctane		*83.6 %*	*70-130*		*EB32102*	*02/20/13*	*02/20/13*	*8015M*	
Surrogate: o-Terphenyl		*97.1 %*	*70-130*		*EB32102*	*02/20/13*	*02/20/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.5	mg/kg dry	1	[CALC]	02/20/13	02/20/13	8015M	

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
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Midland TX, 79703	Project Manager: Camille Bryant	

Road 3 @ 2'

3B20002-03 (Soil)

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*118 %*	*75-125*		*EB32203*	*02/21/13*	*02/21/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*75.3 %*	*75-125*		*EB32203*	*02/21/13*	*02/21/13*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**132**	1.01	mg/kg dry	1	EB32201	02/22/13	02/22/13	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	EB32103	02/20/13	02/21/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	EB32102	02/20/13	02/20/13	8015M	
>C12-C28	ND	25.3	mg/kg dry	1	EB32102	02/20/13	02/20/13	8015M	
>C28-C35	ND	25.3	mg/kg dry	1	EB32102	02/20/13	02/20/13	8015M	
Surrogate: 1-Chlorooctane		*82.5 %*	*70-130*		*EB32102*	*02/20/13*	*02/20/13*	*8015M*	
Surrogate: o-Terphenyl		*95.5 %*	*70-130*		*EB32102*	*02/20/13*	*02/20/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.3	mg/kg dry	1	[CALC]	02/20/13	02/20/13	8015M	

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Road 4 @ 2'

3B20002-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*116 %*	*75-125*		*EB32203*	*02/21/13*	*02/21/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*64.0 %*	*75-125*		*EB32203*	*02/21/13*	*02/21/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**24.2**	1.02	mg/kg dry	1	EB32201	02/22/13	02/22/13	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	EB32103	02/20/13	02/21/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	EB32102	02/20/13	02/20/13	8015M	
>C12-C28	ND	25.5	mg/kg dry	1	EB32102	02/20/13	02/20/13	8015M	
>C28-C35	ND	25.5	mg/kg dry	1	EB32102	02/20/13	02/20/13	8015M	
Surrogate: 1-Chlorooctane		*80.3 %*	*70-130*		*EB32102*	*02/20/13*	*02/20/13*	*8015M*	
Surrogate: o-Terphenyl		*95.0 %*	*70-130*		*EB32102*	*02/20/13*	*02/20/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.5	mg/kg dry	1	[CALC]	02/20/13	02/20/13	8015M	

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
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Road 5 @ 2'

3B20002-05 (Soil)

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*116 %*	*75-125*		*EB32203*	*02/21/13*	*02/21/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*50.8 %*	*75-125*		*EB32203*	*02/21/13*	*02/21/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**91.3**	1.01	mg/kg dry	1	EB32201	02/22/13	02/22/13	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	EB32103	02/20/13	02/21/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	EB32102	02/20/13	02/20/13	8015M	
>C12-C28	ND	25.3	mg/kg dry	1	EB32102	02/20/13	02/20/13	8015M	
>C28-C35	ND	25.3	mg/kg dry	1	EB32102	02/20/13	02/20/13	8015M	
Surrogate: 1-Chlorooctane		*81.2 %*	*70-130*		*EB32102*	*02/20/13*	*02/20/13*	*8015M*	
Surrogate: o-Terphenyl		*96.5 %*	*70-130*		*EB32102*	*02/20/13*	*02/20/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.3	mg/kg dry	1	[CALC]	02/20/13	02/20/13	8015M	

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
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Road 6 @ 2'

3B20002-06 (Soil)

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*118 %*	*75-125*		*EB32203*	*02/21/13*	*02/21/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*75.2 %*	*75-125*		*EB32203*	*02/21/13*	*02/21/13*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**22.0**	1.01	mg/kg dry	1	EB32201	02/22/13	02/22/13	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	EB32103	02/20/13	02/21/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	EB32102	02/20/13	02/20/13	8015M	
>C12-C28	ND	25.3	mg/kg dry	1	EB32102	02/20/13	02/20/13	8015M	
>C28-C35	ND	25.3	mg/kg dry	1	EB32102	02/20/13	02/20/13	8015M	
Surrogate: 1-Chlorooctane		*88.0 %*	*70-130*		*EB32102*	*02/20/13*	*02/20/13*	*8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*EB32102*	*02/20/13*	*02/20/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.3	mg/kg dry	1	[CALC]	02/20/13	02/20/13	8015M	

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
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Road 7 @ 2'

3B20002-07 (Soil)

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*117 %*	*75-125*		*EB32203*	*02/21/13*	*02/21/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*74.6 %*	*75-125*		*EB32203*	*02/21/13*	*02/21/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**26.8**	1.03	mg/kg dry	1	EB32201	02/22/13	02/22/13	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	EB32103	02/20/13	02/21/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	EB32102	02/20/13	02/21/13	8015M	
>C12-C28	ND	25.8	mg/kg dry	1	EB32102	02/20/13	02/21/13	8015M	
>C28-C35	ND	25.8	mg/kg dry	1	EB32102	02/20/13	02/21/13	8015M	
Surrogate: 1-Chlorooctane		*90.0 %*	*70-130*		*EB32102*	*02/20/13*	*02/21/13*	*8015M*	
Surrogate: o-Terphenyl		*105 %*	*70-130*		*EB32102*	*02/20/13*	*02/21/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.8	mg/kg dry	1	[CALC]	02/20/13	02/21/13	8015M	

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Road 8 @ 2'

3B20002-08 (Soil)

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*114 %*	*75-125*		*EB32203*	*02/21/13*	*02/21/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*52.7 %*	*75-125*		*EB32203*	*02/21/13*	*02/21/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**95.1**	1.01	mg/kg dry	1	EB32201	02/22/13	02/22/13	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	EB32103	02/20/13	02/21/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	EB32102	02/20/13	02/21/13	8015M	
>C12-C28	ND	25.3	mg/kg dry	1	EB32102	02/20/13	02/21/13	8015M	
>C28-C35	ND	25.3	mg/kg dry	1	EB32102	02/20/13	02/21/13	8015M	
Surrogate: 1-Chlorooctane		*80.4 %*	*70-130*		*EB32102*	*02/20/13*	*02/21/13*	*8015M*	
Surrogate: o-Terphenyl		*95.7 %*	*70-130*		*EB32102*	*02/20/13*	*02/21/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.3	mg/kg dry	1	[CALC]	02/20/13	02/21/13	8015M	

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
2057 Commerce	Project Number: 1RP-804	
Midland TX, 79703	Project Manager: Camille Bryant	

Road 9 @ 2'

3B20002-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*117 %*	*75-125*		*EB32203*	*02/21/13*	*02/21/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*77.1 %*	*75-125*		*EB32203*	*02/21/13*	*02/21/13*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**39.6**	1.03	mg/kg dry	1	EB32201	02/22/13	02/22/13	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	EB32103	02/20/13	02/21/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	EB32102	02/20/13	02/21/13	8015M	
>C12-C28	ND	25.8	mg/kg dry	1	EB32102	02/20/13	02/21/13	8015M	
>C28-C35	ND	25.8	mg/kg dry	1	EB32102	02/20/13	02/21/13	8015M	
Surrogate: 1-Chlorooctane		*82.7 %*	*70-130*		*EB32102*	*02/20/13*	*02/21/13*	*8015M*	
Surrogate: o-Terphenyl		*100 %*	*70-130*		*EB32102*	*02/20/13*	*02/21/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.8	mg/kg dry	1	[CALC]	02/20/13	02/21/13	8015M	

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
2057 Commerce	Project Number: 1RP-804	
Midland TX, 79703	Project Manager: Camille Bryant	

Road 10 @ 2'

3B20002-10 (Soil)

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32203	02/21/13	02/21/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*119 %*	*75-125*		*EB32203*	*02/21/13*	*02/21/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*68.8 %*	*75-125*		*EB32203*	*02/21/13*	*02/21/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**45.3**	1.01	mg/kg dry	1	EB32201	02/22/13	02/22/13	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	EB32103	02/20/13	02/21/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	EB32102	02/20/13	02/21/13	8015M	
>C12-C28	ND	25.3	mg/kg dry	1	EB32102	02/20/13	02/21/13	8015M	
>C28-C35	ND	25.3	mg/kg dry	1	EB32102	02/20/13	02/21/13	8015M	
Surrogate: 1-Chlorooctane		*79.9 %*	*70-130*		*EB32102*	*02/20/13*	*02/21/13*	*8015M*	
Surrogate: o-Terphenyl		*96.2 %*	*70-130*		*EB32102*	*02/20/13*	*02/21/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.3	mg/kg dry	1	[CALC]	02/20/13	02/21/13	8015M	

Organics by GC - Quality Control

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB32203 - General Preparation (GC)										
Blank (EB32203-BLK1)				Prepared & Analyzed: 02/21/13						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*69.6*		*ug/kg*	*60.0*		*116*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*44.2*		"	*60.0*		*73.7*	*75-125*			*S-GC*
LCS (EB32203-BS1)				Prepared & Analyzed: 02/21/13						
Benzene	0.0899	0.00100	mg/kg wet	0.100		89.9	80-120			
Toluene	0.119	0.00200	"	0.100		119	80-120			
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120			
Xylene (p/m)	0.231	0.00200	"	0.200		116	80-120			
Xylene (o)	0.111	0.00100	"	0.100		111	80-120			
Surrogate: 1,4-Difluorobenzene	*68.2*		*ug/kg*	*60.0*		*114*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*63.9*		"	*60.0*		*107*	*75-125*			
LCS Dup (EB32203-BSD1)				Prepared & Analyzed: 02/21/13						
Benzene	0.0856	0.00100	mg/kg wet	0.100		85.6	80-120	4.88	20	
Toluene	0.117	0.00200	"	0.100		117	80-120	1.95	20	
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120	4.58	20	
Xylene (p/m)	0.220	0.00200	"	0.200		110	80-120	4.89	20	
Xylene (o)	0.107	0.00100	"	0.100		107	80-120	3.71	20	
Surrogate: 1,4-Difluorobenzene	*68.1*		*ug/kg*	*60.0*		*114*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*64.6*		"	*60.0*		*108*	*75-125*			
Matrix Spike (EB32203-MS1)	**Source: 3B20002-01**			Prepared & Analyzed: 02/21/13						
Benzene	0.0547	0.00100	mg/kg dry	0.102	ND	53.6	80-120			QM-05
Toluene	0.0722	0.00200	"	0.102	ND	70.8	80-120			QM-05
Ethylbenzene	0.0635	0.00100	"	0.102	ND	62.3	80-120			QM-05
Xylene (p/m)	0.127	0.00200	"	0.204	ND	62.1	80-120			QM-05
Xylene (o)	0.0629	0.00100	"	0.102	ND	61.6	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*68.6*		*ug/kg*	*60.0*		*114*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*54.1*		"	*60.0*		*90.1*	*75-125*			

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
2057 Commerce	Project Number: 1RP-804	
Midland TX, 79703	Project Manager: Camille Bryant	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB32103 - * DEFAULT PREP *****										
Blank (EB32103-BLK1)				Prepared: 02/20/13 Analyzed: 02/21/13						
% Moisture	ND	0.1	%							
Duplicate (EB32103-DUP1)	**Source: 3B20002-01**			Prepared: 02/20/13 Analyzed: 02/21/13						
% Moisture	2.0	0.1	%		2.0			0.00	20	
Batch EB32201 - * DEFAULT PREP *****										
Blank (EB32201-BLK1)				Prepared & Analyzed: 02/22/13						
Chloride	ND	1.00	mg/kg wet							
LCS (EB32201-BS1)				Prepared & Analyzed: 02/22/13						
Chloride	10.7		mg/kg Wet	10.0		107	80-120			
LCS Dup (EB32201-BSD1)				Prepared & Analyzed: 02/22/13						
Chloride	10.7		mg/kg Wet	10.0		107	80-120	0.541	20	
Duplicate (EB32201-DUP1)	**Source: 3B20002-01**			Prepared & Analyzed: 02/22/13						
Chloride	12.9	1.02	mg/kg dry		12.9			0.158	20	
Matrix Spike (EB32201-MS1)	**Source: 3B20002-01**			Prepared & Analyzed: 02/22/13						
Chloride	191	1.02	mg/kg dry	179	12.9	99.9	80-120			

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2057 Commerce	Project Number: 1RP-804	
Midland TX, 79703	Project Manager: Camille Bryant	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB32102 - 8015M										
Blank (EB32102-BLK1)				Prepared & Analyzed: 02/20/13						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*86.0*		"	*100*		*86.0*	*70-130*			
Surrogate: o-Terphenyl	*50.0*		"	*50.0*		*99.9*	*70-130*			
LCS (EB32102-BS1)				Prepared & Analyzed: 02/20/13						
C6-C12	980	25.0	mg/kg wet	1000		98.0	75-125			
>C12-C28	956	25.0	"	1000		95.6	75-125			
>C28-C35	ND	25.0	"	0.00			75-125			
Surrogate: 1-Chlorooctane	*104*		"	*100*		*104*	*70-130*			
Surrogate: o-Terphenyl	*48.4*		"	*50.0*		*96.9*	*70-130*			
LCS Dup (EB32102-BSD1)				Prepared & Analyzed: 02/20/13						
C6-C12	1060	25.0	mg/kg wet	1000		106	75-125	8.32	20	
>C12-C28	1050	25.0	"	1000		105	75-125	9.68	20	
>C28-C35	ND	25.0	"	0.00			75-125		20	
Surrogate: 1-Chlorooctane	*114*		"	*100*		*114*	*70-130*			
Surrogate: o-Terphenyl	*52.7*		"	*50.0*		*105*	*70-130*			
Matrix Spike (EB32102-MS1)	**Source: 3B20002-10**			Prepared: 02/20/13 Analyzed: 02/21/13						
C6-C12	917	25.3	mg/kg dry	1010	ND	90.8	75-125			
>C12-C28	898	25.3	"	1010	ND	88.9	75-125			
>C28-C35	ND	25.3	"	0.00	ND		75-125			
Surrogate: 1-Chlorooctane	*97.5*		"	*101*		*96.6*	*70-130*			
Surrogate: o-Terphenyl	*47.7*		"	*50.5*		*94.5*	*70-130*			
Matrix Spike Dup (EB32102-MSD1)	**Source: 3B20002-10**			Prepared: 02/20/13 Analyzed: 02/21/13						
C6-C12	986	25.3	mg/kg dry	1010	ND	97.6	75-125	7.27	20	
>C12-C28	960	25.3	"	1010	ND	95.0	75-125	6.62	20	
>C28-C35	ND	25.3	"	0.00	ND		75-125		20	
Surrogate: 1-Chlorooctane	*105*		"	*101*		*104*	*70-130*			
Surrogate: o-Terphenyl	*51.2*		"	*50.5*		*101*	*70-130*			

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 2/22/2013

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Project Manager: Camille Bryant
Company Name: NOVA Safety and Environmental
Company Address: 2057 Commerce
City/State/Zip: Midland, Texas 79703
Telephone No: 432.520.7720 Fax No: 432.520.7701
Sampler Signature: Camille Bryant e-mail: cbryant@novatraining.cc
rose.slade@sug.com

Project Name: SUG Historical Cal "B" Line 1RP-804
Project #:
Project Loc: Lea County New Mexico
PO #:
Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only) ORDER #: 3B20002

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Q 300			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
-01	Road 1 @ 2'			2/18/2013	14:00		1	X								Soil	X								X			X				X
-02	Road 2 @ 2'			2/18/2013	14:10		1	X								Soil	X								X			X				X
-03	Road 3 @ 2'			2/18/2013	14:20		1	X								Soil	X								X			X				X
-04	Road 4 @ 2'			2/18/2013	14:30		1	X								Soil	X								X			X				X
-05	Road 5 @ 2'			2/18/2013	14:40		1	X								Soil	X								X			X				X
-06	Road 6 @ 2'			2/18/2013	14:50		1	X								Soil	X								X			X				X
-07	Road 7 @ 2'			2/18/2013	15:00		1	X								Soil	X								X			X				X
-08	Road 8 @ 2'			2/18/2013	15:10		1	X								Soil	X								X			X				X
-09	Road 9 @ 2'			2/18/2013	15:20		1	X								Soil	X								X			X				X
-10	Road 10 @ 2'			2/18/2013	15:30		1	X								Soil	X								X			X				X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Camille Bryant	2/20/13	8:10			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL	2/20/13	8:10

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received 4.5 °C
Adjusted: °C Factor N/C

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
10014 SCR 1213
Midland, TX 79706

PBELAB

Analytical Report

Prepared for:

Camille Bryant
Nova Safety & Environment
2057 Commerce
Midland, TX 79703

Project: SUG Historical Cal "B" Line 1RP-804
Project Number: 1RP-804
Location: Lea County

Lab Order Number: 3B21005

NELAP ACCREDITED TNI LABORATORY

NELAP/TCEQ # T104704156-12-1

Report Date: 02/28/13

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
2057 Commerce	Project Number: 1RP-804	
Midland TX, 79703	Project Manager: Camille Bryant	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
South of Road Floor @ 14'	3B21005-01	Soil	02/19/13 11:15	02-21-2013 15:03
South of Line NW @ 5'	3B21005-02	Soil	02/19/13 13:10	02-21-2013 15:03
South of Line NW @ 10'	3B21005-03	Soil	02/19/13 13:30	02-21-2013 15:03
South of Line NW @ 13'	3B21005-04	Soil	02/19/13 13:45	02-21-2013 15:03
South of Line EW @ 5'	3B21005-05	Soil	02/19/13 14:00	02-21-2013 15:03
South of Line EW @ 10'	3B21005-06	Soil	02/19/13 14:10	02-21-2013 15:03
South of Line EW @ 13'	3B21005-07	Soil	02/19/13 14:30	02-21-2013 15:03
South of Line WW @ 5'	3B21005-08	Soil	02/20/13 09:30	02-21-2013 15:03
South of Line WW @ 10'	3B21005-09	Soil	02/20/13 09:40	02-21-2013 15:03
South of Line WW @ 13'	3B21005-10	Soil	02/20/13 09:50	02-21-2013 15:03
South of Road F2 @ 14'	3B21005-11	Soil	02/20/13 10:00	02-21-2013 15:03
South of Road SW @ 5'	3B21005-12	Soil	02/20/13 10:10	02-21-2013 15:03
South of Road SW @ 10'	3B21005-13	Soil	02/20/13 10:25	02-21-2013 15:03
South of Road SW @ 13'	3B21005-14	Soil	02/20/13 10:35	02-21-2013 15:03
North of Road Floor @ 14'	3B21005-15	Soil	02/20/13 14:45	02-21-2013 15:03
North of Road SW @ 5'	3B21005-16	Soil	02/20/13 15:10	02-21-2013 15:03
North of Road SW @ 10'	3B21005-17	Soil	02/20/13 15:20	02-21-2013 15:03
North of Road SW @ 13'	3B21005-18	Soil	02/20/13 15:30	02-21-2013 15:03

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
2057 Commerce	Project Number: 1RP-804	
Midland TX, 79703	Project Manager: Camille Bryant	

South of Road Floor @ 14'

3B21005-01 (Soil)

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*118 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*74.7 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**176**	1.10	mg/kg dry	1	EB32503	02/25/13	02/25/13	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	EB32502	02/24/13	02/25/13	8015M	
>C12-C28	**45.9**	27.5	mg/kg dry	1	EB32502	02/24/13	02/25/13	8015M	
>C28-C35	ND	27.5	mg/kg dry	1	EB32502	02/24/13	02/25/13	8015M	
Surrogate: 1-Chlorooctane		*122 %*	*70-130*		*EB32502*	*02/24/13*	*02/25/13*	*8015M*	
Surrogate: o-Terphenyl		*140 %*	*70-130*		*EB32502*	*02/24/13*	*02/25/13*	*8015M*	*S-GC*
Total Hydrocarbon nC6-nC35	**45.9**	27.5	mg/kg dry	1	[CALC]	02/24/13	02/25/13	8015M	

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South of Line NW @ 5'

3B21005-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*118 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*61.4 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3.38**	1.04	mg/kg dry	1	EB32503	02/25/13	02/25/13	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	EB32502	02/24/13	02/25/13	8015M	
>C12-C28	ND	26.0	mg/kg dry	1	EB32502	02/24/13	02/25/13	8015M	
>C28-C35	ND	26.0	mg/kg dry	1	EB32502	02/24/13	02/25/13	8015M	
Surrogate: 1-Chlorooctane		*122 %*	*70-130*		*EB32502*	*02/24/13*	*02/25/13*	*8015M*	
Surrogate: o-Terphenyl		*138 %*	*70-130*		*EB32502*	*02/24/13*	*02/25/13*	*8015M*	*S-GC*
Total Hydrocarbon nC6-nC35	ND	26.0	mg/kg dry	1	[CALC]	02/24/13	02/25/13	8015M	

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South of Line NW @ 10'

3B21005-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*119 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*59.4 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2.42**	1.03	mg/kg dry	1	EB32503	02/25/13	02/25/13	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	EB32502	02/24/13	02/25/13	8015M	
>C12-C28	ND	25.8	mg/kg dry	1	EB32502	02/24/13	02/25/13	8015M	
>C28-C35	ND	25.8	mg/kg dry	1	EB32502	02/24/13	02/25/13	8015M	
Surrogate: 1-Chlorooctane		*84.1 %*	*70-130*		*EB32502*	*02/24/13*	*02/25/13*	*8015M*	
Surrogate: o-Terphenyl		*93.4 %*	*70-130*		*EB32502*	*02/24/13*	*02/25/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.8	mg/kg dry	1	[CALC]	02/24/13	02/25/13	8015M	

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South of Line NW @ 13'

3B21005-04 (Soil)

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*109 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*34.9 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**106**	1.10	mg/kg dry	1	EB32503	02/25/13	02/25/13	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	EB32502	02/24/13	02/25/13	8015M	
>C12-C28	ND	27.5	mg/kg dry	1	EB32502	02/24/13	02/25/13	8015M	
>C28-C35	ND	27.5	mg/kg dry	1	EB32502	02/24/13	02/25/13	8015M	
Surrogate: 1-Chlorooctane		*71.7 %*	*70-130*		*EB32502*	*02/24/13*	*02/25/13*	*8015M*	
Surrogate: o-Terphenyl		*80.1 %*	*70-130*		*EB32502*	*02/24/13*	*02/25/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	27.5	mg/kg dry	1	[CALC]	02/24/13	02/25/13	8015M	

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South of Line EW @ 5'

3B21005-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*118 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*67.6 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3.91**	1.02	mg/kg dry	1	EB32503	02/25/13	02/25/13	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	EB32502	02/24/13	02/25/13	8015M	
>C12-C28	ND	25.5	mg/kg dry	1	EB32502	02/24/13	02/25/13	8015M	
>C28-C35	ND	25.5	mg/kg dry	1	EB32502	02/24/13	02/25/13	8015M	
Surrogate: 1-Chlorooctane		*62.1 %*	*70-130*		*EB32502*	*02/24/13*	*02/25/13*	*8015M*	*S-GC*
Surrogate: o-Terphenyl		*72.2 %*	*70-130*		*EB32502*	*02/24/13*	*02/25/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.5	mg/kg dry	1	[CALC]	02/24/13	02/25/13	8015M	

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South of Line EW @ 10'

3B21005-06 (Soil)

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*118 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*72.2 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2.56**	1.06	mg/kg dry	1	EB32503	02/25/13	02/25/13	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	EB32502	02/24/13	02/25/13	8015M	
>C12-C28	ND	26.6	mg/kg dry	1	EB32502	02/24/13	02/25/13	8015M	
>C28-C35	ND	26.6	mg/kg dry	1	EB32502	02/24/13	02/25/13	8015M	
Surrogate: 1-Chlorooctane		*114 %*	*70-130*		*EB32502*	*02/24/13*	*02/25/13*	*8015M*	
Surrogate: o-Terphenyl		*132 %*	*70-130*		*EB32502*	*02/24/13*	*02/25/13*	*8015M*	*S-GC*
Total Hydrocarbon nC6-nC35	ND	26.6	mg/kg dry	1	[CALC]	02/24/13	02/25/13	8015M	

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South of Line EW @ 13'

3B21005-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*118 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*74.9 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**31.9**	1.05	mg/kg dry	1	EB32503	02/25/13	02/25/13	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	EB32502	02/24/13	02/25/13	8015M	
>C12-C28	ND	26.3	mg/kg dry	1	EB32502	02/24/13	02/25/13	8015M	
>C28-C35	ND	26.3	mg/kg dry	1	EB32502	02/24/13	02/25/13	8015M	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		*EB32502*	*02/24/13*	*02/25/13*	*8015M*	
Surrogate: o-Terphenyl		*111 %*	*70-130*		*EB32502*	*02/24/13*	*02/25/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	26.3	mg/kg dry	1	[CALC]	02/24/13	02/25/13	8015M	

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South of Line WW @ 5'

3B21005-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*117 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*72.1 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**134**	1.03	mg/kg dry	1	EB32602	02/26/13	02/26/13	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
>C12-C28	ND	25.8	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
>C28-C35	ND	25.8	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
Surrogate: 1-Chlorooctane		*59.9 %*	*70-130*		*EB32706*	*02/26/13*	*02/26/13*	*8015M*	*S-GC*
Surrogate: o-Terphenyl		*71.3 %*	*70-130*		*EB32706*	*02/26/13*	*02/26/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.8	mg/kg dry	1	[CALC]	02/26/13	02/26/13	8015M	

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South of Line WW @ 10'

3B21005-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*117 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*73.8 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**529**	1.05	mg/kg dry	1	EB32602	02/26/13	02/26/13	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
>C12-C28	ND	26.3	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
>C28-C35	ND	26.3	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
Surrogate: 1-Chlorooctane		*85.1 %*	*70-130*		*EB32706*	*02/26/13*	*02/26/13*	*8015M*	
Surrogate: o-Terphenyl		*98.6 %*	*70-130*		*EB32706*	*02/26/13*	*02/26/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	26.3	mg/kg dry	1	[CALC]	02/26/13	02/26/13	8015M	

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South of Line WW @ 13'

3B21005-10 (Soil)

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*118 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*73.8 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**14.8**	1.10	mg/kg dry	1	EB32503	02/25/13	02/25/13	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
>C12-C28	ND	27.5	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
>C28-C35	ND	27.5	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
Surrogate: 1-Chlorooctane		*69.0 %*	*70-130*		*EB32706*	*02/26/13*	*02/26/13*	*8015M*	*S-GC*
Surrogate: o-Terphenyl		*82.1 %*	*70-130*		*EB32706*	*02/26/13*	*02/26/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	27.5	mg/kg dry	1	[CALC]	02/26/13	02/26/13	8015M	

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Midland TX, 79703	Project Manager: Camille Bryant	

South of Road F2 @ 14'

3B21005-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.7 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*27.6 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**9.89**	1.11	mg/kg dry	1	EB32503	02/25/13	02/25/13	EPA 300.0	
% Moisture	**10.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
>C12-C28	ND	27.8	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
>C28-C35	ND	27.8	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
Surrogate: 1-Chlorooctane		*74.6 %*	*70-130*		*EB32706*	*02/26/13*	*02/26/13*	*8015M*	
Surrogate: o-Terphenyl		*89.7 %*	*70-130*		*EB32706*	*02/26/13*	*02/26/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	27.8	mg/kg dry	1	[CALC]	02/26/13	02/26/13	8015M	

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
2057 Commerce	Project Number: 1RP-804	
Midland TX, 79703	Project Manager: Camille Bryant	

South of Road SW @ 5'

3B21005-12 (Soil)

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*118 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*76.0 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4.12**	1.03	mg/kg dry	1	EB32503	02/25/13	02/25/13	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
>C12-C28	ND	25.8	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
>C28-C35	ND	25.8	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
Surrogate: 1-Chlorooctane		*60.7 %*	*70-130*		*EB32706*	*02/26/13*	*02/26/13*	*8015M*	*S-GC*
Surrogate: o-Terphenyl		*71.7 %*	*70-130*		*EB32706*	*02/26/13*	*02/26/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.8	mg/kg dry	1	[CALC]	02/26/13	02/26/13	8015M	

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
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South of Road SW @ 10'

3B21005-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*117 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*71.3 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3.52**	1.03	mg/kg dry	1	EB32503	02/25/13	02/25/13	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
>C12-C28	ND	25.8	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
>C28-C35	ND	25.8	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
Surrogate: 1-Chlorooctane		*81.9 %*	*70-130*		*EB32706*	*02/26/13*	*02/26/13*	*8015M*	
Surrogate: o-Terphenyl		*96.7 %*	*70-130*		*EB32706*	*02/26/13*	*02/26/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.8	mg/kg dry	1	[CALC]	02/26/13	02/26/13	8015M	

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
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Midland TX, 79703	Project Manager: Camille Bryant	

South of Road SW @ 13'

3B21005-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*119 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*60.6 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**5.70**	1.06	mg/kg dry	1	EB32503	02/25/13	02/25/13	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
>C12-C28	ND	26.6	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
>C28-C35	ND	26.6	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
Surrogate: 1-Chlorooctane		*62.1 %*	*70-130*		*EB32706*	*02/26/13*	*02/26/13*	*8015M*	*S-GC*
Surrogate: o-Terphenyl		*74.2 %*	*70-130*		*EB32706*	*02/26/13*	*02/26/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	26.6	mg/kg dry	1	[CALC]	02/26/13	02/26/13	8015M	

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
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North of Road Floor @ 14'

3B21005-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*118 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*73.8 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**46.0**	1.04	mg/kg dry	1	EB32503	02/25/13	02/25/13	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
>C12-C28	ND	26.0	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
>C28-C35	ND	26.0	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
Surrogate: 1-Chlorooctane		*59.6 %*	*70-130*		*EB32706*	*02/26/13*	*02/26/13*	*8015M*	*S-GC*
Surrogate: o-Terphenyl		*71.8 %*	*70-130*		*EB32706*	*02/26/13*	*02/26/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	26.0	mg/kg dry	1	[CALC]	02/26/13	02/26/13	8015M	

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
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North of Road SW @ 5'

3B21005-16 (Soil)

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*118 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*63.1 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**6.77**	1.03	mg/kg dry	1	EB32503	02/25/13	02/25/13	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
>C12-C28	ND	25.8	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
>C28-C35	ND	25.8	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
Surrogate: 1-Chlorooctane		*61.0 %*	*70-130*		*EB32706*	*02/26/13*	*02/26/13*	*8015M*	*S-GC*
Surrogate: o-Terphenyl		*73.8 %*	*70-130*		*EB32706*	*02/26/13*	*02/26/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.8	mg/kg dry	1	[CALC]	02/26/13	02/26/13	8015M	

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
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North of Road SW @ 10'

3B21005-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*119 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*52.2 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**5.51**	1.02	mg/kg dry	1	EB32602	02/26/13	02/26/13	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
>C12-C28	ND	25.5	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
>C28-C35	ND	25.5	mg/kg dry	1	EB32706	02/26/13	02/26/13	8015M	
Surrogate: 1-Chlorooctane		*62.3 %*	*70-130*		*EB32706*	*02/26/13*	*02/26/13*	*8015M*	*S-GC*
Surrogate: o-Terphenyl		*74.6 %*	*70-130*		*EB32706*	*02/26/13*	*02/26/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.5	mg/kg dry	1	[CALC]	02/26/13	02/26/13	8015M	

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
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Midland TX, 79703	Project Manager: Camille Bryant	

North of Road SW @ 13'

3B21005-18 (Soil)

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32708	02/27/13	02/27/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*118 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*71.9 %*	*75-125*		*EB32708*	*02/27/13*	*02/27/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**48.8**	1.04	mg/kg dry	1	EB32602	02/26/13	02/26/13	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	EB32706	02/26/13	02/27/13	8015M	
>C12-C28	**34.6**	26.0	mg/kg dry	1	EB32706	02/26/13	02/27/13	8015M	
>C28-C35	**49.9**	26.0	mg/kg dry	1	EB32706	02/26/13	02/27/13	8015M	
Surrogate: 1-Chlorooctane		*70.3 %*	*70-130*		*EB32706*	*02/26/13*	*02/27/13*	*8015M*	
Surrogate: o-Terphenyl		*86.9 %*	*70-130*		*EB32706*	*02/26/13*	*02/27/13*	*8015M*	
Total Hydrocarbon nC6-nC35	**84.6**	26.0	mg/kg dry	1	[CALC]	02/26/13	02/27/13	8015M	

Nova Safety & Environment
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Midland TX, 79703

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Organics by GC - Quality Control

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB32708 - General Preparation (GC)										
Blank (EB32708-BLK1)				Prepared & Analyzed: 02/27/13						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.0719*		"	*0.0600*		*120*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0298*		"	*0.0600*		*49.6*	*75-125*			*S-GC*
LCS (EB32708-BS1)				Prepared & Analyzed: 02/27/13						
Benzene	0.0812	0.00100	mg/kg wet	0.100		81.2	80-120			
Toluene	0.105	0.00200	"	0.100		105	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.209	0.00200	"	0.200		104	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 1,4-Difluorobenzene	*0.0695*		"	*0.0600*		*116*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0679*		"	*0.0600*		*113*	*75-125*			
Matrix Spike (EB32708-MS1)	**Source: 3B21005-01**			Prepared & Analyzed: 02/27/13						
Benzene	0.0952	0.00100	mg/kg dry	0.110	ND	86.6	80-120			
Toluene	0.132	0.00200	"	0.110	ND	120	80-120			
Ethylbenzene	0.126	0.00100	"	0.110	ND	115	80-120			
Xylene (p/m)	0.254	0.00200	"	0.220	ND	116	80-120			
Xylene (o)	0.119	0.00100	"	0.110	ND	109	80-120			
Surrogate: 1,4-Difluorobenzene	*0.0733*		"	*0.0659*		*111*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0645*		"	*0.0659*		*97.8*	*75-125*			
Matrix Spike Dup (EB32708-MSD1)	**Source: 3B21005-01**			Prepared & Analyzed: 02/27/13						
Benzene	0.119	0.00100	mg/kg dry	0.110	ND	109	80-120	22.6	20	QR-03
Toluene	0.131	0.00200	"	0.110	ND	120	80-120	0.684	20	
Ethylbenzene	0.0897	0.00100	"	0.110	ND	81.6	80-120	33.5	20	QR-03
Xylene (p/m)	0.180	0.00200	"	0.220	ND	81.9	80-120	34.1	20	QR-03
Xylene (o)	0.0969	0.00100	"	0.110	ND	88.2	80-120	20.7	20	QR-03
Surrogate: 1,4-Difluorobenzene	*0.0628*		"	*0.0659*		*95.2*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0223*		"	*0.0659*		*33.8*	*75-125*			*S-GC*

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
2057 Commerce	Project Number: 1RP-804	
Midland TX, 79703	Project Manager: Camille Bryant	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB32503 - * DEFAULT PREP *****										
Blank (EB32503-BLK1)				Prepared & Analyzed: 02/25/13						
Chloride	ND	1.00	mg/kg wet							
LCS (EB32503-BS1)				Prepared & Analyzed: 02/25/13						
Chloride	113	1.00	mg/kg wet				80-120			
LCS Dup (EB32503-BSD1)				Prepared & Analyzed: 02/25/13						
Chloride	112	1.00	mg/kg wet				80-120	0.533	20	
Duplicate (EB32503-DUP1)		**Source: 3B21003-01**		Prepared & Analyzed: 02/25/13						
Chloride	7.82	1.06	mg/kg dry		8.10			3.48	20	
Matrix Spike (EB32503-MS1)		**Source: 3B21003-01**		Prepared & Analyzed: 02/25/13						
Chloride	121	1.06	mg/kg dry	106	8.10	106	80-120			
Matrix Spike (EB32503-MS2)		**Source: 3B21005-05**		Prepared & Analyzed: 02/25/13						
Chloride	196	1.02	mg/kg dry	179	3.91	108	80-120			
Batch EB32601 - * DEFAULT PREP *****										
Blank (EB32601-BLK1)				Prepared: 02/25/13 Analyzed: 02/26/13						
% Moisture	ND	0.1	%							
Duplicate (EB32601-DUP1)		**Source: 3B21001-01**		Prepared: 02/25/13 Analyzed: 02/26/13						
% Moisture	49.0	0.1	%		52.0			5.94	20	
Duplicate (EB32601-DUP2)		**Source: 3B21005-15**		Prepared: 02/25/13 Analyzed: 02/26/13						
% Moisture	4.0	0.1	%		4.0			0.00	20	

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
2057 Commerce	Project Number: 1RP-804	
Midland TX, 79703	Project Manager: Camille Bryant	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB32602 - * DEFAULT PREP *****										
Blank (EB32602-BLK1)				Prepared & Analyzed: 02/26/13						
Chloride	ND	1.00	mg/kg wet							
LCS (EB32602-BS1)				Prepared & Analyzed: 02/26/13						
Chloride	10.4		mg/kg Wet	10.0		104	80-120			
LCS Dup (EB32602-BSD1)				Prepared & Analyzed: 02/26/13						
Chloride	10.5		mg/kg Wet	10.0		105	80-120	1.26	20	
Duplicate (EB32602-DUP1)		**Source: 3B21005-17**		Prepared & Analyzed: 02/26/13						
Chloride	5.48	1.02	mg/kg dry		5.51			0.557	20	
Matrix Spike (EB32602-MS1)		**Source: 3B21005-17**		Prepared & Analyzed: 02/26/13						
Chloride	142	1.02	mg/kg dry	128	5.51	107	80-120			
Matrix Spike (EB32602-MS2)		**Source: 3B22002-08**		Prepared & Analyzed: 02/26/13						
Chloride	132	1.08	mg/kg dry	94.1	19.6	120	80-120			

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
2057 Commerce	Project Number: 1RP-804	
Midland TX, 79703	Project Manager: Camille Bryant	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB32502 - TX 1005										
Blank (EB32502-BLK1)				Prepared & Analyzed: 02/24/13						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*73.6*		"	*100*		*73.6*	*70-130*			
Surrogate: o-Terphenyl	*40.6*		"	*50.0*		*81.1*	*70-130*			
LCS (EB32502-BS1)				Prepared & Analyzed: 02/24/13						
C6-C12	798	25.0	mg/kg wet	1000		79.8	75-125			
>C12-C28	751	25.0	"	1000		75.1	75-125			
>C28-C35	ND	25.0	"	0.00			75-125			
Surrogate: 1-Chlorooctane	*78.8*		"	*100*		*78.8*	*70-130*			
Surrogate: o-Terphenyl	*37.8*		"	*50.0*		*75.7*	*70-130*			
LCS Dup (EB32502-BSD1)				Prepared & Analyzed: 02/24/13						
C6-C12	901	25.0	mg/kg wet	1000		90.1	75-125	12.1	20	
>C12-C28	795	25.0	"	1000		79.5	75-125	5.76	20	
>C28-C35	ND	25.0	"	0.00			75-125		20	
Surrogate: 1-Chlorooctane	*101*		"	*100*		*101*	*70-130*			
Surrogate: o-Terphenyl	*44.7*		"	*50.0*		*89.4*	*70-130*			
Matrix Spike (EB32502-MS1)	**Source: 3B21005-07**			Prepared: 02/24/13 Analyzed: 02/25/13						
C6-C12	1030	26.3	mg/kg dry	1050	ND	97.8	75-125			
>C12-C28	800	26.3	"	1050	ND	76.0	75-125			
>C28-C35	ND	26.3	"	0.00	ND		75-125			
Surrogate: 1-Chlorooctane	*77.4*		"	*105*		*73.5*	*70-130*			
Surrogate: o-Terphenyl	*38.2*		"	*52.6*		*72.6*	*70-130*			
Matrix Spike Dup (EB32502-MSD1)	**Source: 3B21005-07**			Prepared: 02/24/13 Analyzed: 02/25/13						
C6-C12	950	26.3	mg/kg dry	1050	ND	90.2	75-125	8.05	20	
>C12-C28	813	26.3	"	1050	ND	77.3	75-125	1.64	20	
>C28-C35	ND	26.3	"	0.00	ND		75-125		20	
Surrogate: 1-Chlorooctane	*101*		"	*105*		*96.0*	*70-130*			
Surrogate: o-Terphenyl	*45.7*		"	*52.6*		*86.9*	*70-130*			

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB32706 - 8015M										
Blank (EB32706-BLK1)				Prepared & Analyzed: 02/26/13						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*63.0*		"	*100*		*63.0*	*70-130*			*S-GC*
Surrogate: o-Terphenyl	*37.8*		"	*50.0*		*75.6*	*70-130*			
LCS (EB32706-BS1)				Prepared & Analyzed: 02/26/13						
C6-C12	770	25.0	mg/kg wet	1000		77.0	75-125			
>C12-C28	797	25.0	"	1000		79.7	75-125			
>C28-C35	ND	25.0	"	0.00			75-125			
Surrogate: 1-Chlorooctane	*65.4*		"	*50.0*		*131*	*70-130*			*S-GC*
Surrogate: o-Terphenyl	*32.2*		"	*25.0*		*129*	*70-130*			
LCS Dup (EB32706-BSD1)				Prepared & Analyzed: 02/26/13						
C6-C12	808	25.0	mg/kg wet	1000		80.8	75-125	4.84	20	
>C12-C28	774	25.0	"	1000		77.4	75-125	2.96	20	
>C28-C35	ND	25.0	"	0.00			75-125		20	
Surrogate: 1-Chlorooctane	*65.4*		"	*50.0*		*131*	*70-130*			*S-GC*
Surrogate: o-Terphenyl	*31.8*		"	*25.0*		*127*	*70-130*			
Matrix Spike (EB32706-MS1)	**Source: 3B22002-04**			Prepared: 02/26/13 Analyzed: 02/27/13						
C6-C12	927	25.5	mg/kg dry	1020	ND	90.9	75-125			
>C12-C28	839	25.5	"	1020	ND	82.2	75-125			
>C28-C35	ND	25.5	"	0.00	ND		75-125			
Surrogate: 1-Chlorooctane	*103*		"	*102*		*101*	*70-130*			
Surrogate: o-Terphenyl	*50.3*		"	*51.0*		*98.6*	*70-130*			
Matrix Spike Dup (EB32706-MSD1)	**Source: 3B22002-04**			Prepared: 02/26/13 Analyzed: 02/27/13						
C6-C12	1120	25.5	mg/kg dry	1020	ND	109	75-125	18.5	20	
>C12-C28	948	25.5	"	1020	ND	92.9	75-125	12.2	20	
>C28-C35	ND	25.5	"	0.00	ND		75-125		20	
Surrogate: 1-Chlorooctane	*130*		"	*102*		*127*	*70-130*			
Surrogate: o-Terphenyl	*61.8*		"	*51.0*		*121*	*70-130*			

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 2/28/2013

Brent Barron, Laboratory Director/Technical Director

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Project Manager: Camille Bryant

Company Name: NOVA Safety and Environmental

Company Address: 2057 Commerce

City/State/Zip: Midland, Texas 79703

Telephone No: 432.520.7720

Fax No: 432.520.7701

Sampler Signature: Camille Bryant

e-mail: cbryant@novatraining.cc

rose.slade@sug.com

Project Name: SUG Historical Cal "B" 1RP-804

Project #:

Project Loc: Lea County, New Mexico

PO #:

Report Format: [✓ Standard] ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 3B21005

Analyze For: TCLP: / TOTAL:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix (DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other)	TPH: 418.1 [✓ 8015M] 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	[✓ BTEX 8021B/5030] or BTEX 8260	RCI	N.O.R.M.	Cl 300			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	South of Road Floor @ 14'			2/19/2013	11:15		1	X								Soil	X								X			X				X
2	South of Line NW @ 5'			2/19/2013	13:10		1	X								Soil	X								X			X				X
3	South of Line NW @ 10'			2/19/2013	13:30		1	X								Soil	X								X			X				X
4	South of Line NW @ 13'			2/19/2013	13:45		1	X								Soil	X								X			X				X
5	South of Line EW @ 5'			2/19/2013	14:00		1	X								Soil	X								X			X				X
6	South of Line EW @ 10'			2/19/2013	14:10		1	X								Soil	X								X			X				X
7	South of Line EW@ 13'			2/19/2013	14:30		1	X								Soil	X								X			X				X
8	South of Line WW @ 5'			2/20/2013	9:30		1	X								Soil	X								X			X				X
9	South of Line WW @ 10'			2/20/2013	9:40		1	X								Soil	X								X			X				X
10	South of Line WW @ 13'			2/20/2013	9:50		1	X								Soil	X								X			X				X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Camille Bryant	2/21/13	14:20	[illegible]		14:20
Relinquished by: [illegible]	2/21/13	1503	Received by:		
Relinquished by:			Received by PBEL: [illegible]	2/21/13	18:18

Laboratory Comments:

Sample Containers Intact? [✓ Y] N
VOCs Free of Headspace? [✓ Y] N
Labels on container(s) [✓ Y] N
Custody seals on container(s) Y [✓ N]
Custody seals on cooler(s) Y [✓ N]
Sample Hand Delivered [✓ Y] N
by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt:
Received: 2.2 °C
Adjusted. °C Factor

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Project Manager: Camille Bryant

Company Name: NOVA Safety and Environmental

Company Address: 2057 Commerce

City/State/Zip: Midland, Texas 79703

Telephone No: 432.520.7720 Fax No: 432.520.7701

Sampler Signature: Camille Bryant e-mail: cbryant@novatraining.cc

rose.slade@sug.com

Project Name: SUG Historical Cal "B" 1RP-804

Project #:

Project Loc: Lea County, New Mexico

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 3B21505

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 / 8015M / 8015B	TPH: TX 1005 / TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.				RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
11	South of Road F2 @ 14'			2/20/2013	10:00		1	X								Soil	X								X			X				X
12	South of Road SW @ 5'			2/20/2013	10:10		1	X								Soil	X								X			X				X
13	South of Road SW @ 10'			2/20/2013	10:25		1	X								Soil	X								X			X				X
14	South of Road SW @ 13'			2/20/2013	10:35		1	X								Soil	X								X			X				X
15	North of Road Floor @ 14'			2/20/2013	14:45		1	X								Soil	X								X			X				X
16	North of Road SW @ 5'			2/20/2013	15:10		1	X								Soil	X								X			X				X
17	North of Road SW @ 10'			2/20/2013	15:20		1	X								Soil	X								X			X				X
18	North of Road SW @ 13'			2/20/2013	15:30		1	X								Soil	X								X			X				X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Camille Bryant	2/21/13	14:20	Mike Green	2/21/13	1420
Mike Green	2/21/13	1503			
			Received by PBEL	2/21/13	1515

Laboratory Comments:

Sample Containers Intact? Y N

VOCs Free of Headspace? Y N

Labels on container(s) Y N

Custody seals on container(s) Y N

Custody seals on cooler(s) Y N

Sample Hand Delivered by Sampler/Client Rep.? Y N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:

Received: 2.0 °C

Adjusted: °C Factor

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
10014 SCR 1213
Midland, TX 79706

PBELAB

Analytical Report

Prepared for:

Camille Bryant
Nova Safety & Environment
2057 Commerce
Midland, TX 79703

Project: SUG Historical Cal "B" Line 1RP-804
Project Number: 1RP-804
Location: Lea County, New Mexico

Lab Order Number: 3B22002

NELAP ACCREDITED TNI LABORATORY

NELAP/TCEQ # T104704156-12-1

Report Date: 02/28/13

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
2057 Commerce	Project Number: 1RP-804	
Midland TX, 79703	Project Manager: Camille Bryant	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
South of Road F3 @ 14'	3B22002-01	Soil	02/20/13 10:45	02-22-2013 13:45
North of Road NW @ 5'	3B22002-02	Soil	02/21/13 09:00	02-22-2013 13:45
North of Road NW @ 10'	3B22002-03	Soil	02/21/13 09:10	02-22-2013 13:45
North of Road NW @ 13'	3B22002-04	Soil	02/21/13 09:20	02-22-2013 13:45
North of Road F2 @ 14'	3B22002-05	Soil	02/21/13 09:30	02-22-2013 13:45
North of Road WW @ 5'	3B22002-06	Soil	02/21/13 10:00	02-22-2013 13:45
North of Road WW @ 10'	3B22002-07	Soil	02/21/13 10:10	02-22-2013 13:45
North of Road WW @ 13'	3B22002-08	Soil	02/21/13 10:20	02-22-2013 13:45
North of Road F3 @ 14'	3B22002-09	Soil	02/21/13 10:30	02-22-2013 13:45
North of Road EW @ 5'	3B22002-10	Soil	02/21/13 11:10	02-22-2013 13:45
North of Road EW @ 10'	3B22002-11	Soil	02/21/13 11:20	02-22-2013 13:45
North of Road EW @ 13'	3B22002-12	Soil	02/21/13 11:30	02-22-2013 13:45
North Road F4 @ 14'	3B22002-13	Soil	02/21/13 11:40	02-22-2013 13:45
RP @ 5'	3B22002-14	Soil	02/21/13 15:00	02-22-2013 13:45
RP @ 10'	3B22002-15	Soil	02/21/13 15:15	02-22-2013 13:45
RP @ 13'	3B22002-16	Soil	02/21/13 15:25	02-22-2013 13:45

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
2057 Commerce	Project Number: 1RP-804	
Midland TX, 79703	Project Manager: Camille Bryant	

South of Road F3 @ 14'

3B22002-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/27/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/27/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/27/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/27/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/27/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*94.0 %*	*75-125*		*EB32805*	*02/27/13*	*02/27/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*28.9 %*	*75-125*		*EB32805*	*02/27/13*	*02/27/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**9.58**	1.02	mg/kg dry	1	EB32602	02/26/13	02/26/13	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C12-C28	ND	25.5	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C28-C35	ND	25.5	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
Surrogate: 1-Chlorooctane		*118 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Surrogate: o-Terphenyl		*123 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.5	mg/kg dry	1	[CALC]	02/27/13	02/27/13	8015M	

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
2057 Commerce	Project Number: 1RP-804	
Midland TX, 79703	Project Manager: Camille Bryant	

North of Road NW @ 5'

3B22002-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/27/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/27/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/27/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/27/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/27/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*119 %*	*75-125*		*EB32805*	*02/27/13*	*02/27/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*52.9 %*	*75-125*		*EB32805*	*02/27/13*	*02/27/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**14.9**	1.02	mg/kg dry	1	EB32602	02/26/13	02/26/13	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	EB32706	02/26/13	02/27/13	8015M	
>C12-C28	ND	25.5	mg/kg dry	1	EB32706	02/26/13	02/27/13	8015M	
>C28-C35	ND	25.5	mg/kg dry	1	EB32706	02/26/13	02/27/13	8015M	
Surrogate: 1-Chlorooctane		*69.6 %*	*70-130*		*EB32706*	*02/26/13*	*02/27/13*	*8015M*	*S-GC*
Surrogate: o-Terphenyl		*83.0 %*	*70-130*		*EB32706*	*02/26/13*	*02/27/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.5	mg/kg dry	1	[CALC]	02/26/13	02/27/13	8015M	

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North of Road NW @ 10'

3B22002-03 (Soil)

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*111 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*27.8 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**17.3**	1.02	mg/kg dry	1	EB32602	02/26/13	02/26/13	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C12-C28	ND	25.5	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C28-C35	ND	25.5	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
Surrogate: 1-Chlorooctane		*65.6 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	*S-GC*
Surrogate: o-Terphenyl		*79.2 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.5	mg/kg dry	1	[CALC]	02/27/13	02/27/13	8015M	

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
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North of Road NW @ 13'

3B22002-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*118 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*14.3 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**6.49**	1.02	mg/kg dry	1	EB32602	02/26/13	02/26/13	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	EB32706	02/26/13	02/27/13	8015M	
>C12-C28	ND	25.5	mg/kg dry	1	EB32706	02/26/13	02/27/13	8015M	
>C28-C35	ND	25.5	mg/kg dry	1	EB32706	02/26/13	02/27/13	8015M	
Surrogate: 1-Chlorooctane		*68.7 %*	*70-130*		*EB32706*	*02/26/13*	*02/27/13*	*8015M*	*S-GC*
Surrogate: o-Terphenyl		*80.8 %*	*70-130*		*EB32706*	*02/26/13*	*02/27/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.5	mg/kg dry	1	[CALC]	02/26/13	02/27/13	8015M	

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North of Road F2 @ 14'

3B22002-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*119 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*54.7 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**6.58**	1.02	mg/kg dry	1	EB32602	02/26/13	02/26/13	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C12-C28	ND	25.5	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C28-C35	ND	25.5	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
Surrogate: 1-Chlorooctane		*114 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Surrogate: o-Terphenyl		*120 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.5	mg/kg dry	1	[CALC]	02/27/13	02/27/13	8015M	

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North of Road WW @ 5'

3B22002-06 (Soil)

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*118 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*65.8 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**33.0**	1.02	mg/kg dry	1	EB32602	02/26/13	02/26/13	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C12-C28	ND	25.5	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C28-C35	ND	25.5	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
Surrogate: 1-Chlorooctane		*115 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Surrogate: o-Terphenyl		*120 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.5	mg/kg dry	1	[CALC]	02/27/13	02/27/13	8015M	

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North of Road WW @ 10'

3B22002-07 (Soil)

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*113 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*41.8 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**26.3**	1.02	mg/kg dry	1	EB32602	02/26/13	02/26/13	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C12-C28	ND	25.5	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C28-C35	ND	25.5	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
Surrogate: 1-Chlorooctane		*114 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Surrogate: o-Terphenyl		*117 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.5	mg/kg dry	1	[CALC]	02/27/13	02/27/13	8015M	

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North of Road WW @ 13'

3B22002-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*118 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*72.7 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**19.6**	1.08	mg/kg dry	1	EB32602	02/26/13	02/26/13	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C12-C28	ND	26.9	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C28-C35	ND	26.9	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
Surrogate: 1-Chlorooctane		*116 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Surrogate: o-Terphenyl		*122 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	26.9	mg/kg dry	1	[CALC]	02/27/13	02/27/13	8015M	

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North of Road F3 @ 14'

3B22002-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*108 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*%*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**10.6**	1.08	mg/kg dry	1	EB32602	02/26/13	02/26/13	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C12-C28	ND	26.9	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C28-C35	ND	26.9	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Surrogate: o-Terphenyl		*107 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	26.9	mg/kg dry	1	[CALC]	02/27/13	02/27/13	8015M	

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North of Road EW @ 5'

3B22002-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*118 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*37.7 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**27.8**	1.02	mg/kg dry	1	EB32602	02/26/13	02/26/13	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C12-C28	ND	25.5	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C28-C35	ND	25.5	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
Surrogate: 1-Chlorooctane		*111 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Surrogate: o-Terphenyl		*119 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.5	mg/kg dry	1	[CALC]	02/27/13	02/27/13	8015M	

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North of Road EW @ 10'

3B22002-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*117 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*47.3 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**73.0**	1.03	mg/kg dry	1	EB32602	02/26/13	02/26/13	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C12-C28	ND	25.8	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C28-C35	ND	25.8	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
Surrogate: 1-Chlorooctane		*110 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Surrogate: o-Terphenyl		*115 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.8	mg/kg dry	1	[CALC]	02/27/13	02/27/13	8015M	

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2057 Commerce	Project Number: 1RP-804	
Midland TX, 79703	Project Manager: Camille Bryant	

North of Road EW @ 13'

3B22002-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*116 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*%*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**33.0**	1.04	mg/kg dry	1	EB32602	02/26/13	02/26/13	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C12-C28	ND	26.0	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C28-C35	ND	26.0	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
Surrogate: 1-Chlorooctane		*108 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Surrogate: o-Terphenyl		*109 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	26.0	mg/kg dry	1	[CALC]	02/27/13	02/27/13	8015M	

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
2057 Commerce	Project Number: 1RP-804	
Midland TX, 79703	Project Manager: Camille Bryant	

North Road F4 @ 14'

3B22002-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*107 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*31.7 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**38.8**	1.03	mg/kg dry	1	EB32602	02/26/13	02/26/13	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C12-C28	ND	25.8	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C28-C35	ND	25.8	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
Surrogate: 1-Chlorooctane		*119 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Surrogate: o-Terphenyl		*122 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.8	mg/kg dry	1	[CALC]	02/27/13	02/27/13	8015M	

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
2057 Commerce	Project Number: 1RP-804	
Midland TX, 79703	Project Manager: Camille Bryant	

RP @ 5'

3B22002-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*111 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*27.2 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**6.43**	1.02	mg/kg dry	1	EB32602	02/26/13	02/26/13	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C12-C28	ND	25.5	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C28-C35	ND	25.5	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
Surrogate: 1-Chlorooctane		*110 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Surrogate: o-Terphenyl		*111 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.5	mg/kg dry	1	[CALC]	02/27/13	02/27/13	8015M	

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
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Midland TX, 79703	Project Manager: Camille Bryant	

RP @ 10'

3B22002-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*116 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*66.0 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**28.0**	1.03	mg/kg dry	1	EB32602	02/26/13	02/26/13	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C12-C28	ND	25.8	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C28-C35	ND	25.8	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
Surrogate: 1-Chlorooctane		*112 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Surrogate: o-Terphenyl		*114 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.8	mg/kg dry	1	[CALC]	02/27/13	02/27/13	8015M	

Nova Safety & Environment	Project: SUG Historical Cal "B" Line 1RP-804	Fax: (432) 520-7701
2057 Commerce	Project Number: 1RP-804	
Midland TX, 79703	Project Manager: Camille Bryant	

RP @ 13'

3B22002-16 (Soil)

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	EB32805	02/27/13	02/28/13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*110 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*32.7 %*	*75-125*		*EB32805*	*02/27/13*	*02/28/13*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**26.1**	1.03	mg/kg dry	1	EB32602	02/26/13	02/26/13	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	EB32601	02/25/13	02/26/13	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C12-C28	ND	25.8	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
>C28-C35	ND	25.8	mg/kg dry	1	EB32802	02/27/13	02/27/13	8015M	
Surrogate: 1-Chlorooctane		*97.2 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Surrogate: o-Terphenyl		*96.7 %*	*70-130*		*EB32802*	*02/27/13*	*02/27/13*	*8015M*	
Total Hydrocarbon nC6-nC35	ND	25.8	mg/kg dry	1	[CALC]	02/27/13	02/27/13	8015M	

Organics by GC - Quality Control

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB32805 - General Preparation (GC)										
Blank (EB32805-BLK1)				Prepared & Analyzed: 02/27/13						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*68.8*		*ug/kg*	*60.0*		*115*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*43.9*		"	*60.0*		*73.1*	*75-125*			*S-GC*
LCS (EB32805-BS1)				Prepared & Analyzed: 02/27/13						
Benzene	0.0813	0.00100	mg/kg wet	0.100		81.3	80-120			
Toluene	0.116	0.00200	"	0.100		116	80-120			
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120			
Xylene (p/m)	0.238	0.00200	"	0.200		119	80-120			
Xylene (o)	0.113	0.00100	"	0.100		113	80-120			
Surrogate: 1,4-Difluorobenzene	*58.1*		*ug/kg*	*60.0*		*96.8*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*57.8*		"	*60.0*		*96.3*	*75-125*			
LCS Dup (EB32805-BSD1)				Prepared & Analyzed: 02/27/13						
Benzene	0.0811	0.00100	mg/kg wet	0.100		81.1	80-120	0.259	20	
Toluene	0.116	0.00200	"	0.100		116	80-120	0.561	20	
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120	2.28	20	
Xylene (p/m)	0.230	0.00200	"	0.200		115	80-120	3.52	20	
Xylene (o)	0.109	0.00100	"	0.100		109	80-120	3.04	20	
Surrogate: 1,4-Difluorobenzene	*59.7*		*ug/kg*	*60.0*		*99.5*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*58.5*		"	*60.0*		*97.5*	*75-125*			
Matrix Spike (EB32805-MS1)		**Source: 3B26003-04**		Prepared: 02/27/13 Analyzed: 02/28/13						
Benzene	0.0304	0.00100	mg/kg dry	0.109	0.00274	25.5	80-120			QM-05
Toluene	0.0715	0.00200	"	0.109	ND	65.7	80-120			QM-05
Ethylbenzene	0.0657	0.00100	"	0.109	0.0280	34.7	80-120			QM-05
Xylene (p/m)	0.431	0.00200	"	0.217	0.270	74.4	80-120			QM-05
Xylene (o)	0.216	0.00100	"	0.109	0.124	84.7	80-120			
Surrogate: 1,4-Difluorobenzene	*67.5*		*ug/kg*	*60.0*		*113*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*55.9*		"	*60.0*		*93.1*	*75-125*			

Organics by GC - Quality Control

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB32805 - General Preparation (GC)										
Matrix Spike Dup (EB32805-MSD1)	**Source: 3B26003-04**			Prepared: 02/27/13 Analyzed: 02/28/13						
Benzene	0.0387	0.00100	mg/kg dry	0.109	0.00274	33.1	80-120	25.9	20	QM-05
Toluene	0.0804	0.00200	"	0.109	ND	74.0	80-120	11.8	20	QM-05
Ethylbenzene	0.0720	0.00100	"	0.109	0.0280	40.4	80-120	15.2	20	QM-05
Xylene (p/m)	0.452	0.00200	"	0.217	0.270	83.9	80-120	12.1	20	
Xylene (o)	0.267	0.00100	"	0.109	0.124	132	80-120	43.4	20	QM-05
Surrogate: 1,4-Difluorobenzene	*62.9*		*ug/kg*	*60.0*		*105*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*44.9*		"	*60.0*		*74.9*	*75-125*			*S-GC*

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB32601 - * DEFAULT PREP *** **										
Blank (EB32601-BLK1)				Prepared: 02/25/13 Analyzed: 02/26/13						
% Moisture	ND	0.1	%							
Duplicate (EB32601-DUP1)		**Source: 3B21001-01**		Prepared: 02/25/13 Analyzed: 02/26/13						
% Moisture	49.0	0.1	%		52.0			5.94	20	
Duplicate (EB32601-DUP2)		**Source: 3B21005-15**		Prepared: 02/25/13 Analyzed: 02/26/13						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Batch EB32602 - * DEFAULT PREP *** **										
Blank (EB32602-BLK1)				Prepared & Analyzed: 02/26/13						
Chloride	ND	1.00	mg/kg wet							
LCS (EB32602-BS1)				Prepared & Analyzed: 02/26/13						
Chloride	10.4		mg/kg Wet	10.0		104	80-120			
LCS Dup (EB32602-BSD1)				Prepared & Analyzed: 02/26/13						
Chloride	10.5		mg/kg Wet	10.0		105	80-120	1.26	20	
Duplicate (EB32602-DUP1)		**Source: 3B21005-17**		Prepared & Analyzed: 02/26/13						
Chloride	5.48	1.02	mg/kg dry		5.51			0.557	20	
Matrix Spike (EB32602-MS1)		**Source: 3B21005-17**		Prepared & Analyzed: 02/26/13						
Chloride	142	1.02	mg/kg dry	128	5.51	107	80-120			
Matrix Spike (EB32602-MS2)		**Source: 3B22002-08**		Prepared & Analyzed: 02/26/13						
Chloride	132	1.08	mg/kg dry	94.1	19.6	120	80-120			

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB32706 - 8015M										
Blank (EB32706-BLK1)				Prepared & Analyzed: 02/26/13						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*63.0*		"	*100*		*63.0*	*70-130*			*S-GC*
Surrogate: o-Terphenyl	*37.8*		"	*50.0*		*75.6*	*70-130*			
LCS (EB32706-BS1)				Prepared & Analyzed: 02/26/13						
C6-C12	770	25.0	mg/kg wet	1000		77.0	75-125			
>C12-C28	797	25.0	"	1000		79.7	75-125			
>C28-C35	ND	25.0	"	0.00			75-125			
Surrogate: 1-Chlorooctane	*65.4*		"	*50.0*		*131*	*70-130*			*S-GC*
Surrogate: o-Terphenyl	*32.2*		"	*25.0*		*129*	*70-130*			
LCS Dup (EB32706-BSD1)				Prepared & Analyzed: 02/26/13						
C6-C12	808	25.0	mg/kg wet	1000		80.8	75-125	4.84	20	
>C12-C28	774	25.0	"	1000		77.4	75-125	2.96	20	
>C28-C35	ND	25.0	"	0.00			75-125		20	
Surrogate: 1-Chlorooctane	*65.4*		"	*50.0*		*131*	*70-130*			*S-GC*
Surrogate: o-Terphenyl	*31.8*		"	*25.0*		*127*	*70-130*			
Matrix Spike (EB32706-MS1)	**Source: 3B22002-04**			Prepared: 02/26/13 Analyzed: 02/27/13						
C6-C12	927	25.5	mg/kg dry	1020	ND	90.9	75-125			
>C12-C28	839	25.5	"	1020	ND	82.2	75-125			
>C28-C35	ND	25.5	"	0.00	ND		75-125			
Surrogate: 1-Chlorooctane	*103*		"	*102*		*101*	*70-130*			
Surrogate: o-Terphenyl	*50.3*		"	*51.0*		*98.6*	*70-130*			
Matrix Spike Dup (EB32706-MSD1)	**Source: 3B22002-04**			Prepared: 02/26/13 Analyzed: 02/27/13						
C6-C12	1120	25.5	mg/kg dry	1020	ND	109	75-125	18.5	20	
>C12-C28	948	25.5	"	1020	ND	92.9	75-125	12.2	20	
>C28-C35	ND	25.5	"	0.00	ND		75-125		20	
Surrogate: 1-Chlorooctane	*130*		"	*102*		*127*	*70-130*			
Surrogate: o-Terphenyl	*61.8*		"	*51.0*		*121*	*70-130*			

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB32802 - 8015M										
Blank (EB32802-BLK1)				Prepared & Analyzed: 02/27/13						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*61.7*		"	*50.0*		*123*	*70-130*			
Surrogate: o-Terphenyl	*31.0*		"	*25.0*		*124*	*70-130*			
LCS (EB32802-BS1)				Prepared & Analyzed: 02/27/13						
C6-C12	784	25.0	mg/kg wet	1000		78.4	75-125			
>C12-C28	849	25.0	"	1000		84.9	75-125			
>C28-C35	ND	25.0	"	0.00			75-125			
Surrogate: 1-Chlorooctane	*66.3*		"	*50.0*		*133*	*70-130*			*S-GC*
Surrogate: o-Terphenyl	*27.4*		"	*25.0*		*110*	*70-130*			
LCS Dup (EB32802-BSD1)				Prepared & Analyzed: 02/27/13						
C6-C12	818	25.0	mg/kg wet	1000		81.8	75-125	4.31	20	
>C12-C28	863	25.0	"	1000		86.3	75-125	1.70	20	
>C28-C35	ND	25.0	"	0.00			75-125		20	
Surrogate: 1-Chlorooctane	*67.8*		"	*50.0*		*136*	*70-130*			*S-GC*
Surrogate: o-Terphenyl	*27.4*		"	*25.0*		*110*	*70-130*			
Matrix Spike (EB32802-MS1)	**Source: 3B22003-07**			Prepared & Analyzed: 02/27/13						
C6-C12	954	25.8	mg/kg dry	1030	63.7	86.4	75-125			
>C12-C28	896	25.8	"	1030.	534	35.0	75-125			QM-05
>C28-C35	116	25.8	"	0.00	145		75-125			
Surrogate: 1-Chlorooctane	*61.7*		"	*51.5*		*120*	*70-130*			
Surrogate: o-Terphenyl	*26.8*		"	*25.8*		*104*	*70-130*			
Matrix Spike Dup (EB32802-MSD1)	**Source: 3B22003-07**			Prepared & Analyzed: 02/27/13						
C6-C12	897	25.8	mg/kg dry	1030	63.7	80.8	75-125	6.61	20	
>C12-C28	914	25.8	"	1030	534	36.8	75-125	4.91	20	QM-05
>C28-C35	124	25.8	"	0.00	145		75-125		20	
Surrogate: 1-Chlorooctane	*63.3*		"	*51.5*		*123*	*70-130*			
Surrogate: o-Terphenyl	*27.2*		"	*25.8*		*105*	*70-130*			

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis.
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 2/28/2013

Brent Barron, Laboratory Director/Technical Director

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Project Manager: Camille Bryant

Company Name: NOVA Safety and Environmental

Company Address: 2057 Commerce

City/State/Zip: Midland, Texas 79703

Telephone No: 432.520.7720 Fax No: 432.520.7701

Sampler Signature: Camille Bryant

e-mail: cbryant@novatraining.cc
rose.slade@sug.com

Project Name: SUG Historical Cal "B" 1RP-804

Project #:

Project Loc: Lea County, New Mexico

PO #:

Report Format: [x] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 382002

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M	8015B TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Cl 300			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	South of Road F3 @ 14'			2/20/2013	10:45		1	X								Soil	X								X			X				X
02	North of Road NW @ 5'			2/21/2013	9:00		1	X								Soil	X								X			X				X
03	North of Road NW @ 10'			2/21/2013	9:10		1	X								Soil	X								X			X				X
04	North of Road NW @ 13'			2/21/2013	9:20		1	X								Soil	X								X			X				X
05	North of Road F2 @ 14'			2/21/2013	9:30		1	X								Soil	X								X			X				X
06	North of Road WW @ 5'			2/21/2013	10:00		1	X								Soil	X								X			X				X
07	North of Road WW @ 10'			2/21/2013	10:10		1	X								Soil	X								X			X				X
08	North of Road WW @ 13'			2/21/2013	10:20		1	X								Soil	X								X			X				X
09	North of Road F3 @14'			2/21/2013	10:30		1	X								Soil	X								X			X				X
10	North of Road EW @ 5'			2/21/2013	11:10		1	X								Soil	X								X			X				X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Camille Bryant	2/20/13	13:45			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL:	Date	Time
				2/22/13	13:45

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N
by Courier? UPS DHL FedEx Lone Star		

Temperature Upon Receipt
Received: °C
Adjusted: 0.4 °C Factor

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Project Manager: Camille Bryant

Company Name: NOVA Safety and Environmental

Company Address: 2057 Commerce

City/State/Zip: Midland, Texas 79703

Telephone No: 432.520.7720 Fax No: 432.520.7701

Sampler Signature: Camille Bryant

e-mail: cbryant@novatraining.cc
rose.slade@sug.com

Project Name: SUG Historical Cal "B" 1RP-804

Project #:

Project Loc: Lea County, New Mexico

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 3B22002

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge / GW=Groundwater S=Soil/Solid / NP=Non-Potable Specify Other	Analyze For: TPH: 418.1 / 8015M / 8015B	TPH: TX 1005 / TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Cl 300		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
11	North of Road EW @ 10'			2/21/2013	11:20		1	X								Soil	X							X			X			X
12	North of Road EW @ 13'			2/21/2013	11:30		1	X								Soil	X							X			X			X
13	North Road F4 @ 14'			2/21/2013	11:40		1	X								Soil	X							X			X			X
14	RP @ 5'			2/21/2013	15:00		1	X								Soil	X							X			X			X
15	RP @ 10'			2/21/2013	15:15		1	X								Soil	X							X			X			X
16	RP @ 13'			2/21/2013	15:25		1	X								Soil	X							X			X			X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Camille Bryant	2/22/13	13:45			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL:	Date	Time
				2/22/13	13:45

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: °C
Adjusted: 0.4 °C Factor

APPENDIX B:
Photographs

NOVA
safety and environmental

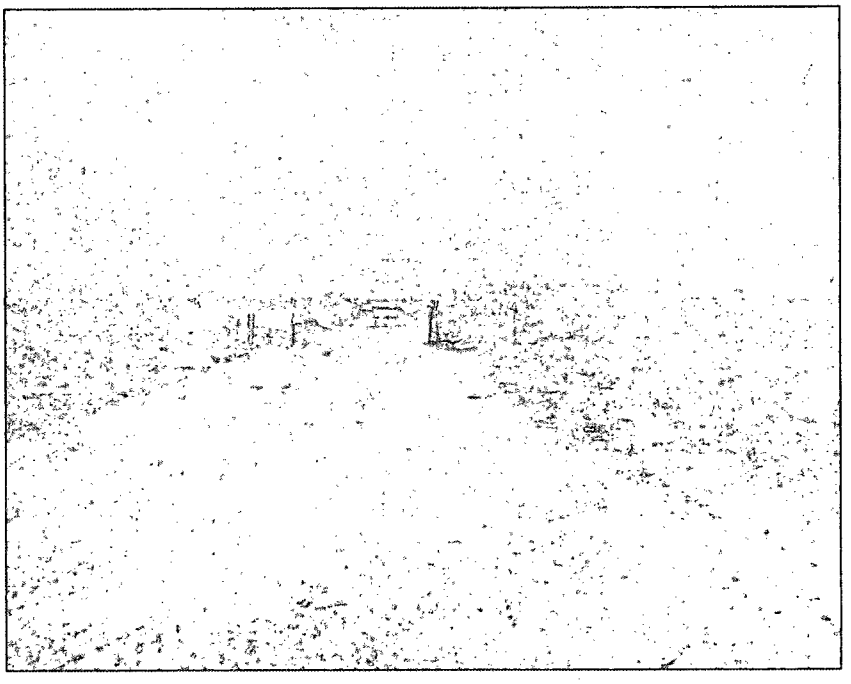
Photographic Documentation

Client: Southern Union Gas Services
Project Name: Cal "B" Line

Prepared by: NOVA
Location: Lea County, New Mexico

Photograph No. 1

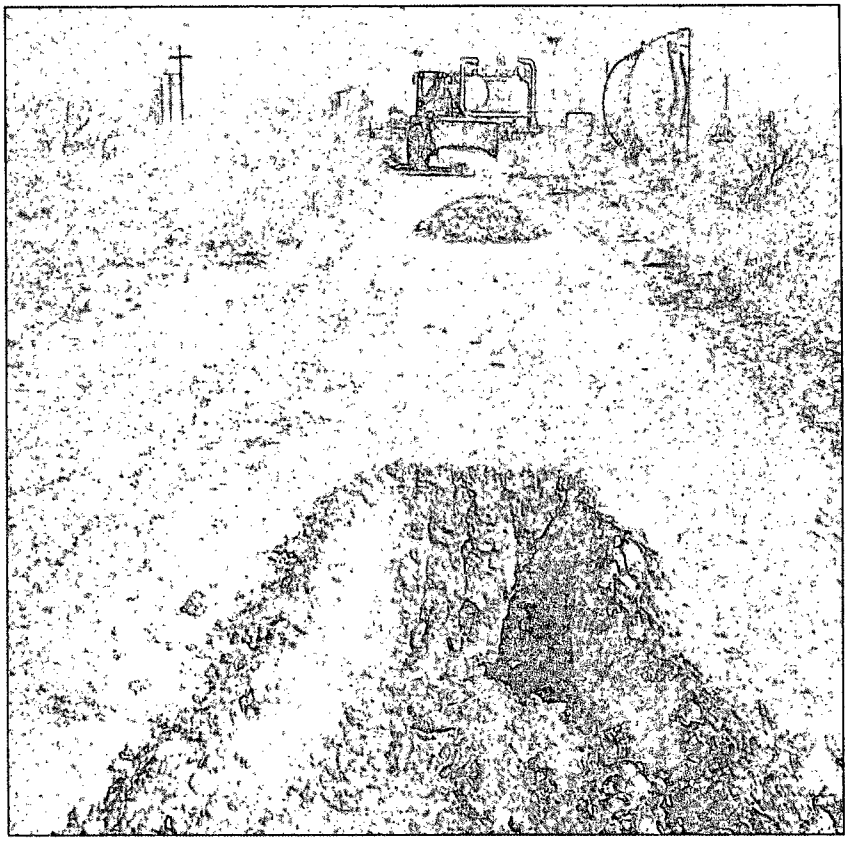
Direction:
Facing West



Description:
View of historical release prior to excavation activities.

Photograph No. 2

Direction:
Facing East



Description:
View of excavation of the trenches in caliche road.

NOVA
safety and environmental

Photographic Documentation

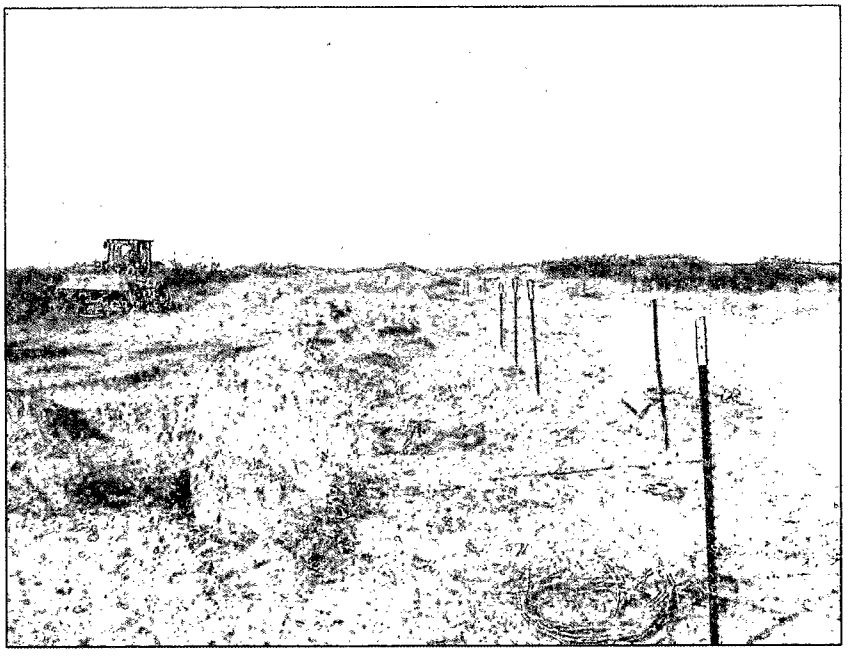
Client: Southern Union Gas Services
Project Name: Cal "B" Line

Prepared by: NOVA
Location: Lea County, New Mexico

Photograph No. 3

Direction:
Facing Southwest

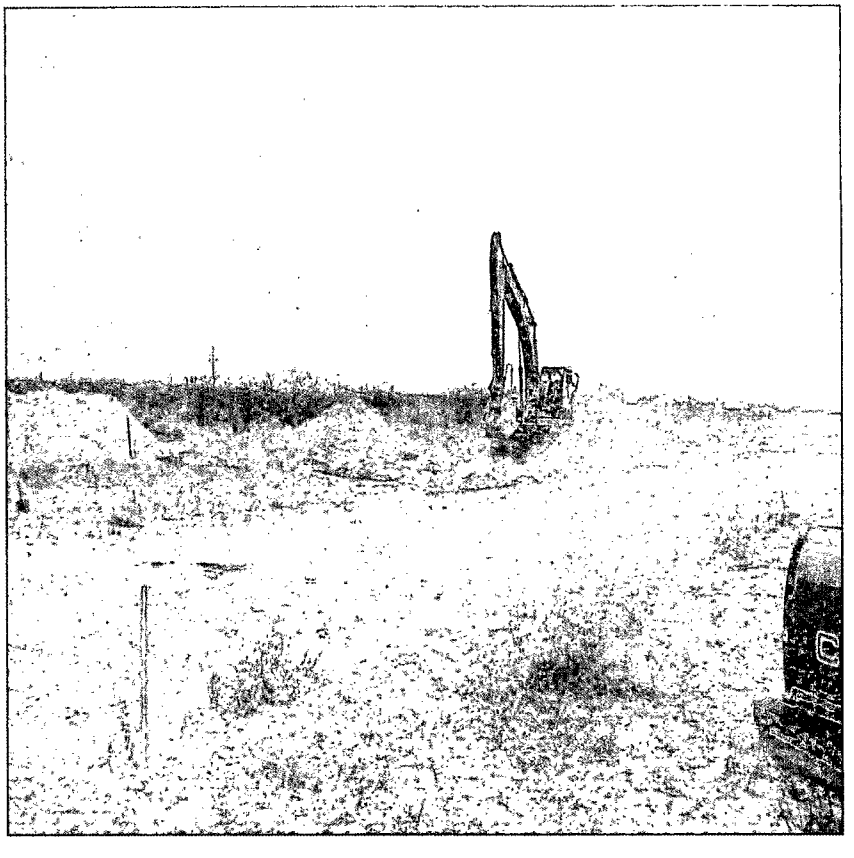
Description:
View of excavation of trenches on the south side of the caliche road.



Photograph No. 4

Direction:
Facing Northeast

Description:
View of excavation of trenches on the north side of the caliche road.



NOVA
safety and environmental

Photographic Documentation

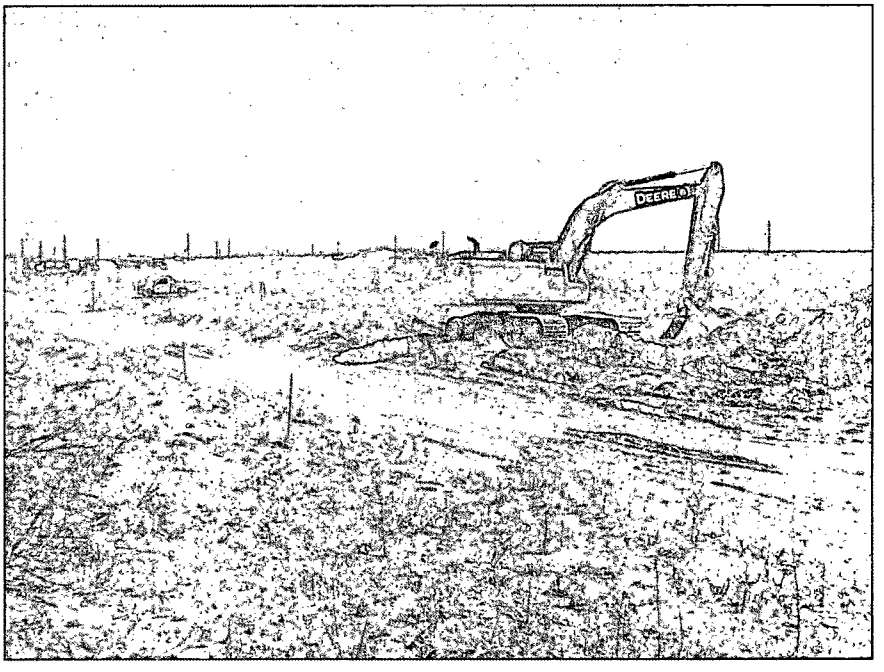
Client: Southern Union Gas Services
Project Name: Cal "B" Line

Prepared by: NOVA
Location: Lea County, New Mexico

Photograph No. 5

Direction:
Facing Southeast

Description:
View of excavation of trench at the inferred release point.



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

OCD 200' 210 RP 804

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Southern Union Gas Serv. Ltd.	Contact	Tony Savoie
Address	P.O. Box 1226 Jal, N.M. 88252	Telephone No.	505-395-2116
Facility Name	Lea County Field Dept.	Facility Type	Natural Gas Gathering

Surface Owner	State	Mineral Owner	State	Lease No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	12	26S	36E					Lea

Latitude N32 03.896 Longitude W103 13.024

NATURE OF RELEASE

Type of Release	Natural Gas, oil, and water	Volume of Release 651,000 MCF Nat. Gas, 271 bls Produced water, 25 bls condensate	Volume Recovered 230 bls Produced water, 20 bls condensate.
Source of Release	Pipeline	Date and Hour of Occurrence 18:15 3/23/06	Date and Hour of Discovery 3/23/06 @ 18:20
Was Immediate Notice Given? X Yes No Not Required 200'		If YES, To Whom? Gary Wink	
By Whom?		Date and Hour 3/23/06 at 18:50	
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 hole developed in the 16" pipeline and released the fluid and gas. Normal operating pressure is 25 P.S.I Sweet gas. At the time of the release the pipeline was being pigged and an estimated 2700 bls of fluid was coming into the receiver at approximately 70 P.S.I. Once the release was discovered a backhoe was dispatched to dam up and contain the fluid until the line could be blown-down.

Describe Area Affected and Cleanup Action Taken. * Approximately 53,935 sq. ft. of caliche road and approximately 11,500 sq. ft. of pastureland was affected by the release. The heavily saturated soil was removed from the caliche road and pasture and transported to the company owned and operated land-farm.
The affected area will be remediated in accordance to the NMOCD recommended guidelines on leaks and spills.

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:	*Tony Savoie*	OIL CONSERVATION DIVISION	
Printed Name:	John A. Savoie	Approved by District Supervisor:	
Title:	EH&S Comp. Coord.	Approval Date:	Expiration Date:
E-mail Address:	jasavoie@sidrichgas.com	Conditions of Approval:	Attached ☐
Date: 3/27/06	Phone: 505-395-2116		

* Attach Additional Sheets If Necessary

OGRID -21232

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nPAC0609331536
nPAC0609331948