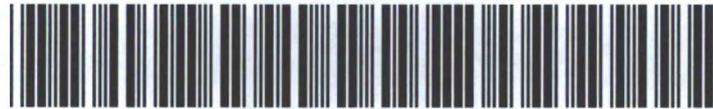




AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pJXK1604731189

1RP - 2727

SOUTHERN UNION GAS SERVICES LTD

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

Energy Minerals and Natural Resources

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

AUG 03 2011

Form C-
Revised October 10,

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on the side of f

RECEIVED

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.	432-940-5147
Facility Name	Trunk "M" Historical	Facility Type	Natural Gas Pipeline
Surface Owner	State of New Mexico	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
E	30	22S	37E					Lea

Latitude 32 degrees 21' 57.49" Longitude 103 degrees 12' 36.612"

NATURE OF RELEASE

Type of Release	Natural Gas and Crude Oil	Volume of Release	Unknown	Volume Recovered	None
Source of Release	20-Inch Steel Pipeline (Low Pressure)	Date and Hour of Occurrence	Unknown	Date and Hour of Discovery	June 24, 2011
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Failure of a segment of the twenty (20) inch low pressure steel pipeline resulted in the release of an unknown volume of a natural gas and crude oil. The historical release was reported to Southern Union by an agent of the Lessee.

Describe Area Affected and Cleanup Action Taken.*
An area along the Southern Union ROW measuring approximately 1,000 square feet was affected by the release. The release will be remediated to NMOCD regulatory guidelines. Southern Union anticipates blending the hydrocarbon impacted soil onsite and backfilling the excavation with the blended soil with NMOCD approval.

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.

OIL CONSERVATION DIVISION

Signature: <i>Rose Slade</i>	Approved by District Supervisor: <i>Steve Johnson</i>	
Printed Name: Rose Slade	Approval Date: 08/03/11	Expiration Date: 10/03/11
Title: EHS Compliance Specialist	Conditions of Approval: SUBMIT FINAL C-141 BY 10/03/11	
E-mail Address: rose.slade@sug.com	Attached <input type="checkbox"/>	
Date: August 3, 2011	Phone: 432-940-5147	IRP-08-11-272

* Attach Additional Sheets If Necessary,

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

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

HOBBS OCD

DEC 13 2011

Form C-141
Revised October 10, 2003

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

RECEIVED

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.	432-940-5147
Facility Name	Trunk "M" Historical	Facility Type	Natural Gas Pipeline
Surface Owner	State of New Mexico	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
E	30	22S	37E					Lea

Latitude 32 degrees 21' 57.49" **Longitude** 103 degrees 12' 36.612"

NATURE OF RELEASE

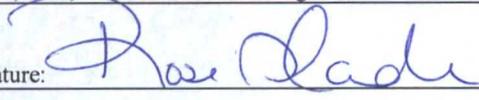
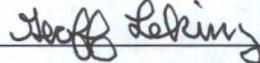
Type of Release	Natural Gas and Crude Oil	Volume of Release	Unknown	Volume Recovered	None
Source of Release	20-Inch Steel Pipeline (Low Pressure)	Date and Hour of Occurrence	Unknown	Date and Hour of Discovery	June 24, 2011
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Failure of a segment of the twenty (20) inch low pressure steel pipeline resulted in the release of an unknown volume of a natural gas and crude oil. The historical release was reported to Southern Union by an agent of the Lessee.

Describe Area Affected and Cleanup Action Taken.*
An area along the Southern Union ROW measuring approximately 1,000 square feet was affected by the release. The release was excavated; impacted soil was blended to NMOCD regulatory standards and used as excavation backfill with NMOCD approval. Please reference "Remediation Summary and Site Closure Request" dated October 2011, for remediation 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: 	OIL CONSERVATION DIVISION	
Printed Name: Rose Slade	ENV SPECIALIST: Approved by District Supervisor 	
Title: EHS Compliance Specialist	Approval Date: 12/14/11	Expiration Date: —
E-mail Address: rose.slade@sug.com	Conditions of Approval: —	Attached <input type="checkbox"/>
Date: December 12, 2011	Phone: 432-940-5147	IRP-08-11-2727

* Attach Additional Sheets If Necessary,

Basin Environmental Service Technologies, LLC

3100 Plains Highway
P. O. Box 301
Lovington, New Mexico 88260
bjarguijo@basinenv.com
Office: (575) 396-2378 Fax: (575) 396-1429



REMEDIATION SUMMARY & SITE CLOSURE REQUEST

**SOUTHERN UNION GAS SERVICES
TRUNK "M" HISTORICAL
Lea County, New Mexico
Unit Letter "E" (SW/NW), Section 30, Township 22 South, Range 37 East
Latitude 32° 21' 57.49' North, Longitude 103° 12' 36.612' West
NMOCD Reference #1RP-08-11-2727**

Prepared For:

Southern Union Gas Services
801 S. Loop 464
Monahans, TX 79756

HOBBS OCD

DEC 13 2011

Prepared By:

Basin Environmental Service Technologies, LLC
3100 Plains Highway
Lovington, New Mexico 88260

RECEIVED

October 2011



Ben J. Arguijo
Project Manager

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Figure 1 – Site Location Map

Figure 2 – Site & Sample Location Map

TABLES

Table 1 – Concentrations of Benzene, BTEX, TPH & Chlorides in Soil

APPENDICES

Appendix A – Photographs

Appendix B – Laboratory Analytical Reports

Appendix C – Release Notification and Corrective Action (Form C-141)

1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of Southern Union Gas Services (Southern Union), has prepared this *Remediation Summary & Site Closure Request* for the release site known as Trunk "M" Historical. The legal description of the release site is Unit Letter "E" (SW/NW), Section 30, Township 22 South, Range 37 East, in Lea County, New Mexico. The geographic coordinates of the release site are 32° 21' 57.49" North latitude and 103° 12' 36.612" West longitude. The property affected by the release is owned by the State of New Mexico and administered by the New Mexico State Land Office (NMSLO). A "Site Location Map" is provided as Figure 1.

On June 24, 2011, Southern Union was notified of a historical release on the Trunk "M" pipeline by the lessee of the affected property. Upon notification, the release was immediately reported to the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office. The "Release Notification and Corrective Action" (Form C-141) indicated failure of a segment of the twenty inch (20") low-pressure Trunk "M" steel pipeline resulted in the release of an unknown quantity of natural gas and crude oil. The release affected an area of land along the Southern Union right-of-way measuring approximately one thousand square feet (1,000 ft²).

The Form C-141 is provided as Appendix C. General photographs of the release site are provided as Appendix A.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 30, Township 22 South, Range 37 East. A depth-to-groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately one hundred and fifteen feet (115') below ground surface (bgs). Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

A search of the NMWRRS database indicated there are no water wells within 1,000 feet of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

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

NMOCD guidelines indicate the Trunk "M" Historical release site has an initial ranking score of zero (0) points. 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 New Mexico Administrative Code (NMAC) does not currently specify a remediation level for chloride concentrations in soil. Chloride remediation levels are set by the NMOCD on a site-specific basis.

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On July 26, 2011, excavation of impacted soil commenced at the site. Hach Quantab Chloride Low Range (30-600 mg/Kg) Titrators were used to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. As a safety and environmental precaution, Southern Union requested and received NMOCD approval to leave in-place soil beneath the pipeline, to support the pipeline during remediation activities.

Prior to beginning the excavation activities, two (2) soil samples (Baseline #1 and Baseline #2) were collected to determine the baseline concentrations of Total Petroleum Hydrocarbons (TPH) and chlorides at the release site. The soil samples were submitted to Xenco Laboratories, Inc., in Odessa, Texas, for analysis of TPH and chloride concentrations using EPA Methods SW 846-8015M and 300.1, respectively. Laboratory analytical results indicated TPH concentrations ranged from 5,240 mg/Kg in soil sample Baseline #2 to 15,500 mg/Kg in soil sample Baseline #1. Chloride concentrations ranged from 12.0 mg/Kg in soil sample Baseline #2 to 15.0 mg/Kg in soil sample Baseline #1. Soil sample Baseline #2 was collected at the release point.

Table 1 summarizes the "Concentrations of Benzene, BTEX, TPH & Chlorides in Soil". Soil sample locations are depicted in Figure 2, "Site & Sample Location Map". Laboratory analytical reports are provided as Appendix B.

From July 26 through July 28, 2011, approximately three hundred and fifty (350) cubic yards (cy) of impacted soil was excavated and stockpiled on-site, pending final disposition.

On July 28, 2011, twenty (20) soil samples (Samples #1 through #20) were collected from the floor and sidewalls of the excavation. Samples were collected at fifty foot (50') horizontal intervals, beginning with Sample #1 in the northwest wall of the excavation and ending with Sample #20 in the southern wall. The soil samples were submitted to the laboratory for analysis of TPH and chloride concentrations. Soil samples Sample #7 through Sample #11 were also analyzed for benzene, ethylbenzene, toluene, and xylene (BTEX) concentrations using EPA Method SW 846-8021b.

Laboratory analytical results indicated TPH concentrations ranged from less than the laboratory method detection limit (MDL) in all soil samples submitted, with the exceptions of soil samples Sample #8 (17.3 mg/Kg) and Sample #11 (24.9 mg/Kg). Chloride concentrations ranged 6.88 mg/Kg in soil sample Sample #12 to 210 mg/Kg in soil sample Sample #7. BTEX concentrations were less than the appropriate laboratory MDL in all soil samples submitted. Review of laboratory analytical results indicated TPH, Benzene, BTEX, and chloride concentrations were less than NMOCD regulatory standards for all submitted soil samples.

From July 29 through August 1, 2011, the stockpiled material was blended on-site with non-impacted soil.

On August 1, 2011, two (2) five-point composite soil samples (Stockpile #1 and Stockpile #2) were collected from the stockpiled material and submitted to the laboratory for analysis of TPH, chloride, and BTEX concentrations. Laboratory analytical results indicated TPH concentrations ranged from 1,450 mg/Kg in soil sample Stockpile #1 to 2,520 mg/Kg in soil sample Stockpile #2. Chloride concentrations ranged from 24.0 mg/Kg in soil sample Stockpile #2 to 31.8 mg/Kg in soil sample Stockpile #1. Benzene concentrations were less than the laboratory MDL for all soil samples submitted. BTEX concentrations ranged from 0.0314 mg/Kg in soil sample Stockpile #1 to 0.0332 mg/Kg in soil sample Stockpile #2. Soil represented by soil samples Stockpile #1 and Stockpile #2 was deemed suitable for use as backfill material.

On August 10, 2011, a Southern Union representative met with an NMOCD representative (Hobbs District Office) to request "Permission to Backfill" the excavation using the blended soil. The request was approved by the NMOCD representative.

Based on laboratory analytical results, and with NMOCD approval, from August 11 through August 12, 2011, the excavation was backfilled in eighteen-inch (18") lifts, compacted, and contoured to fit the surrounding topography. Prior to backfilling, final dimensions of the excavation were approximately one hundred and eight-five feet (185') in length, approximately four feet (4') to twenty-three feet (23') in width, and ranging in depth from approximately three feet (3') to nine and one-half feet (9.5') bgs.

The release site will be seeded with an NMSLO-approved seed mixture during the 2012 and 2013 calendar years.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil Samples were delivered to Xenco Laboratories, Inc., in Odessa, Texas, for analysis of BTEX, TPH, and/or chloride concentrations using the methods described below. Soil samples were analyzed for BTEX, TPH, and/or chloride concentrations within fourteen (14) days following the collection date.

The soil samples were analyzed as follows:

- BTEX concentrations in accordance with EPA Method SW 846-8021b
- TPH concentrations in accordance with modified EPA Method SW 846-8015M
- Chloride concentrations in accordance with EPA Method 300.1

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 form(s). These procedures were either transmitted with the laboratory analytical reports or are on file at the laboratory.

5.0 SITE CLOSURE REQUEST

Soil samples collected from the floor and sidewalls of the Trunk "M" Historical excavation were analyzed by an NMOCD-approved laboratory, and concentrations of Benzene, BTEX, TPH, and chlorides were less than the remediation action levels established for the site. Based on these laboratory analytical results, Basin recommends Southern Union provide the NMOCD Hobbs District Office and the NMSLO a copy of this *Remediation Summary & Site Closure Request* and request the NMOCD grant site closure to the Trunk "M" Historical release site.

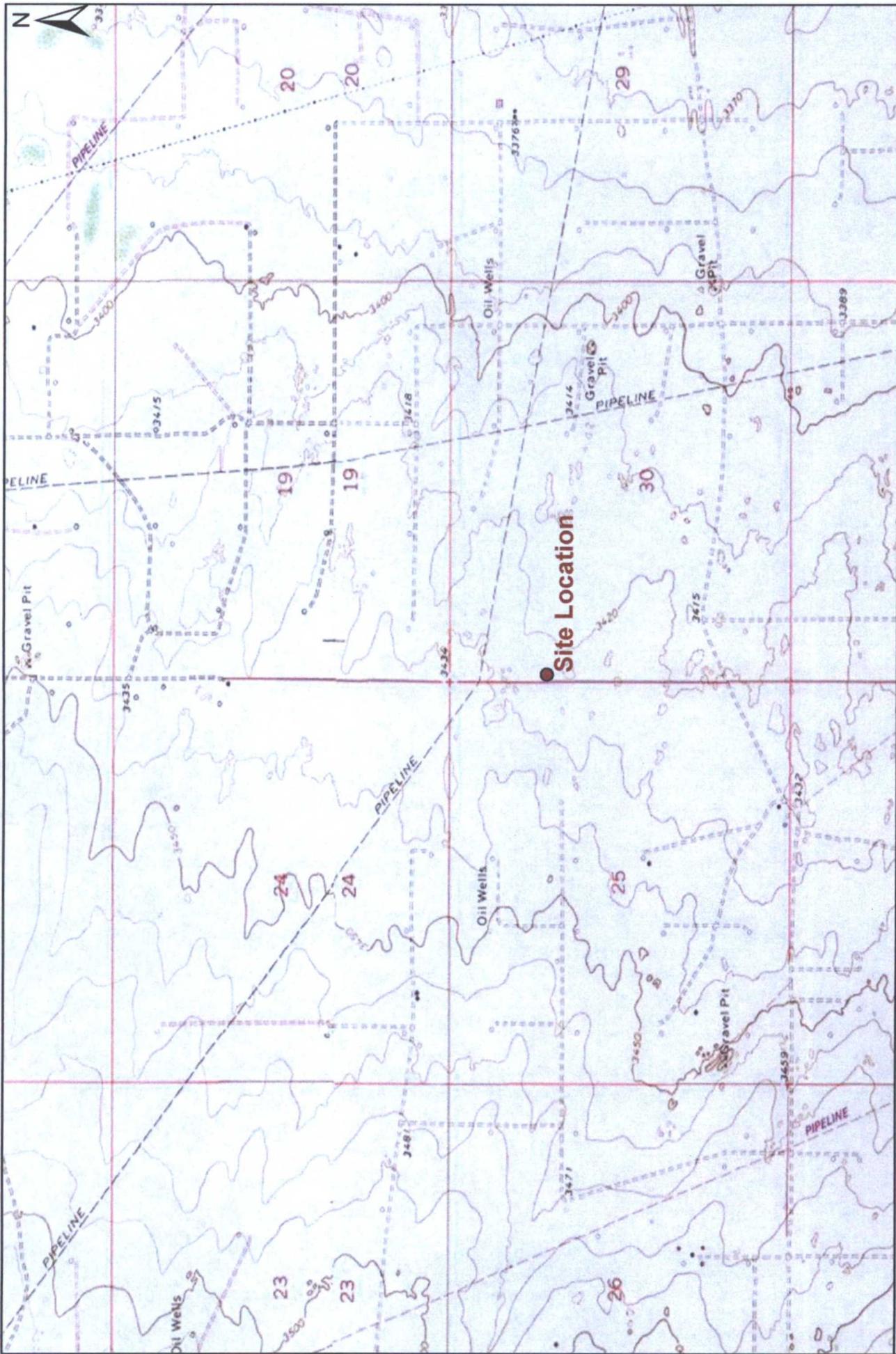
6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin has not conducted an independent examination of the facts contained in referenced materials and statements. Basin has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin 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 Basin Environmental Service Technologies, LLC, and/or Southern Union Gas Services.

7.0 DISTRIBUTION:

- Copy 1: Geoffrey Leking
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 1)
1625 French Drive
Hobbs, NM 88240
GeoffreyR.Leking@state.nm.us
- Copy 2: Myra Harrison
New Mexico State Land Office
2827 N. Dal Paso, Ste. 117
Hobbs, NM 88240
mharrison@slo.state.nm.us
- Copy 3: Rose Slade and Curt Stanley
Southern Union Gas Services
801 S. Loop 464
Monahans, Texas 79756
rose.slade@sug.com
- Copy 4: Basin Environmental Service Technologies, LLC
P.O. Box 301
Lovington, New Mexico 88260

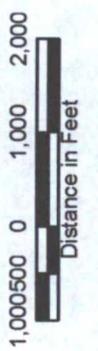


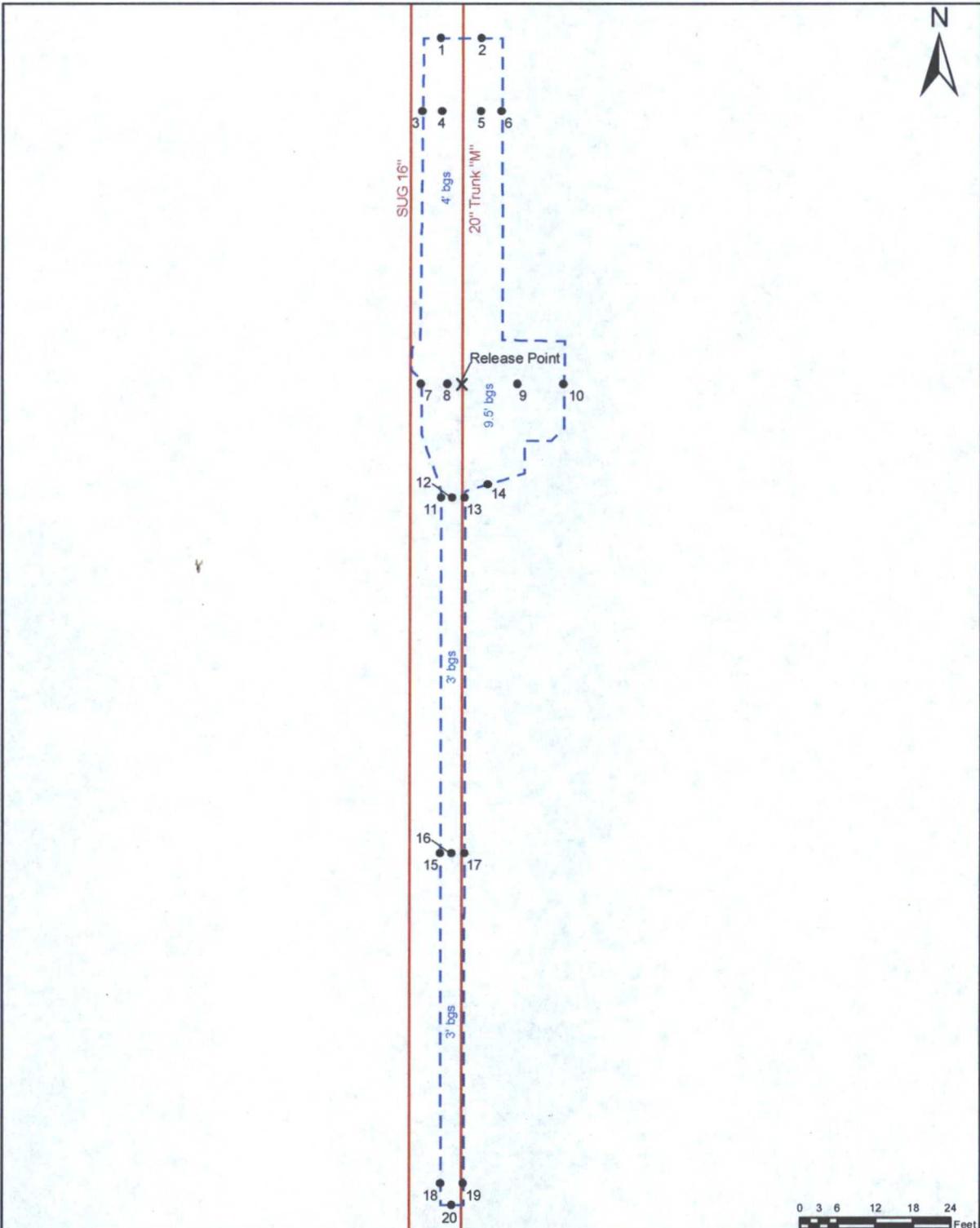
Basin Environmental Service Technologies, LLC
 3100 Plains Hwy.
 Lovington, NM 88260

Drawn By: BJA	Checked By: BRB
October 13, 2011	Scale: 1" = 2000'



Figure 1
 Site Location Map
 Southern Union Gas Services
 Trunk "M" Historical
 Lea County, New Mexico
 NMOCD Ref. #: 1RP-08-11-2727





Legend:

- - - Excavation Extent
- Pipeline
- Sample Location

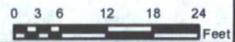
Figure 2
Site & Sample Location Map
Southern Union Gas Services
Trunk "M" Historical
Lea County, New Mexico
NMOCD Ref. #: 1RP-08-11-2727



Basin Environmental Service Technologies
 Effective Solutions

Basin Environmental Service Technologies
 3100 Plains Hwy,
 Lovington, NM 88260

Drawn By: BJA	Checked By: BRB
October 13, 2011	Scale: 1" = 24'





Trunk "M" Historical - Release Site



Trunk "M" Historical - Excavation (Looking South)



Trunk "M" Historical - Excavation (Following Backfill)

Analytical Report 424335
for
Southern Union Gas Services- Monahans

Project Manager: Rose Slade
Trunk M Historical

27-JUL-11

Collected By: Client



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12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

Xenco-Boca Raton (EPA Lab Code: FL01273):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



27-JUL-11

Project Manager: **Rose Slade**
Southern Union Gas Services- Monahans
1507 W. 15th Street
Monahans, TX 79756

Reference: XENCO Report No: **424335**
Trunk M Historical
Project Address: Lea County, NM

Rose Slade:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 424335. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 424335 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 424335



Southern Union Gas Services- Monahans, Monahans, TX
Trunk M Historical

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Baseline # 1	S	07-26-11 14:05		424335-001
Baseline # 2	S	07-26-11 14:10		424335-002



CASE NARRATIVE

Client Name: Southern Union Gas Services- Monahans
Project Name: Trunk M Historical



Project ID:
Work Order Number: 424335

Report Date: 27-JUL-11
Date Received: 07/27/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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 2505 North Falkenburg Rd. Tampa, FL 33619
 5757 NW 158th St, Miami Lakes, FL 33014
 12600 West I-20 East, Odessa, TX 79765
 6017 Financial Drive, Norcross, GA 30071
 3725 E. Atlanta Ave, Phoenix, AZ 85040

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(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



Form 2 - Surrogate Recoveries

Project Name: Trunk M Historical

Work Orders : 424335,

Project ID:

Lab Batch #: 865532

Sample: 424335-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/27/11 14:07

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	104	99.8	104	70-135	
o-Terphenyl	58.9	49.9	118	70-135	

Lab Batch #: 865532

Sample: 424335-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/27/11 14:36

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	99.6	109	70-135	
o-Terphenyl	57.7	49.8	116	70-135	

Lab Batch #: 865532

Sample: 608891-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/27/11 13:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	107	99.7	107	70-135	
o-Terphenyl	53.2	49.9	107	70-135	

Lab Batch #: 865532

Sample: 608891-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/27/11 12:43

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	108	101	107	70-135	
o-Terphenyl	50.1	50.3	100	70-135	

Lab Batch #: 865532

Sample: 608891-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/27/11 13:11

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	100	101	70-135	
o-Terphenyl	47.6	50.2	95	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Trunk M Historical

Work Orders : 424335,

Project ID:

Lab Batch #: 865532

Sample: 424335-001 D / MD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/27/11 15:04

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.3	99.8	99	70-135	
o-Terphenyl	57.6	49.9	115	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: Trunk M Historical

Work Order #: 424335

Analyst: BRB

Lab Batch ID: 865561

Sample: 865561-1-BKS

Date Prepared: 07/27/2011

Batch #: 1

Project ID:

Date Analyzed: 07/27/2011

Matrix: Solid

Units: mg/kg

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<0.840	20.0	21.2	106	20.0	21.3	107	0	75-125	20	

Analyst: BEV

Lab Batch ID: 865532

Sample: 608891-1-BKS

Date Prepared: 07/27/2011

Batch #: 1

Date Analyzed: 07/27/2011

Matrix: Solid

Units: mg/kg

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
TPH By SW8015 Mod	<15.1	1010	1030	102	1000	959	96	7	70-135	35	
C6-C12 Gasoline Range Hydrocarbons	<15.1	1010	930	92	1000	870	87	7	70-135	35	

Relative Percent Difference RPD = $200 * [(C-F) / (C+F)]$
Blank Spike Recovery [D] = $100 * (C) / [B]$
Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$
All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Project Name: Trunk M Historical

Work Order #: 424335

Lab Batch #: 865561

Date Analyzed: 07/27/2011

QC- Sample ID: 424335-001 S

Reporting Units: mg/kg

Date Prepared: 07/27/2011

Batch #: 1

Project ID:

Analyst: BRB

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	15.0	103	117	99	75-125	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Relative Percent Difference [E] = 200*(C-A)/(C+B)

All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Sample Duplicate Recovery

Project Name: Trunk M Historical

Work Order #: 424335

Lab Batch #: 865561

Project ID:

Date Analyzed: 07/27/2011 14:07

Date Prepared: 07/27/2011

Analyst: BRB

QC- Sample ID: 424335-001 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	15.0	15.6	4	20	

Lab Batch #: 865481

Date Analyzed: 07/27/2011 09:25

Date Prepared: 07/27/2011

Analyst: WRU

QC- Sample ID: 424335-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	2.65	2.77	4	20	

Lab Batch #: 865532

Date Analyzed: 07/27/2011 15:04

Date Prepared: 07/27/2011

Analyst: BEV

QC- Sample ID: 424335-001 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

SAMPLE / SAMPLE DUPLICATE RECOVERY					
TPH By SW8015 Mod	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
C6-C12 Gasoline Range Hydrocarbons	1690	1600	5	35	
C12-C28 Diesel Range Hydrocarbons	13800	13200	4	35	
C28-C35 Oil Range Hydrocarbons	<76.9	<76.9	0	35	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



XENCO Laboratories
 Atlanta, Boca Raton, Corpus Christi, Dallas
 Houston, Miami, Odessa, Philadelphia
 Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist
 Document No.: SYS-SRC
 Revision/Date: No. 01, 5/27/2010
 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Southern Union Gas
 Date/Time: 7-27-11 8:10
 Lab ID #: 424335
 Initials: LM

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	<u>N/A</u>	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	<u>Yes</u>	<u>No</u>	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>5.1</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that apply:
- Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
 - Initial and Backup Temperature confirm out of temperature conditions
 - Client understands and would like to proceed with analysis

Analytical Report 424821
for
Southern Union Gas Services- Monahans

Project Manager: Rose Slade
Trunk M Historical

10-AUG-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

Xenco-Boca Raton (EPA Lab Code: FL01273):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
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Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



10-AUG-11

Project Manager: **Rose Slade**
Southern Union Gas Services- Monahans
1507 W. 15th Street
Monahans, TX 79756

Reference: XENCO Report No: **424821**
Trunk M Historical
Project Address: Lea County, NM

Rose Slade:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 424821. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 424821 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron II

Odessa Laboratory Manager

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Sample Cross Reference 424821



Southern Union Gas Services- Monahans, Monahans, TX Trunk M Historical

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Sample # 1	S	07-28-11 08:00		424821-001
Sample # 2	S	07-28-11 08:05		424821-002
Sample # 3	S	07-28-11 08:10		424821-003
Sample # 4	S	07-28-11 08:15		424821-004
Sample # 5	S	07-28-11 08:20		424821-005
Sample # 6	S	07-28-11 08:25		424821-006
Sample # 7	S	07-28-11 08:30		424821-007
Sample # 8	S	07-28-11 08:35		424821-008
Sample # 9	S	07-28-11 08:40		424821-009
Sample # 10	S	07-28-11 08:45		424821-010
Sample # 11	S	07-28-11 08:50		424821-011
Sample # 12	S	07-28-11 08:55		424821-012
Sample # 13	S	07-28-11 09:00		424821-013
Sample # 14	S	07-28-11 09:05		424821-014
Sample # 15	S	07-28-11 09:10		424821-015
Sample # 16	S	07-28-11 09:15		424821-016
Sample # 17	S	07-28-11 09:20		424821-017
Sample # 18	S	07-28-11 09:25		424821-018
Sample # 19	S	07-28-11 09:30		424821-019
Sample # 20	S	07-28-11 09:35		424821-020



CASE NARRATIVE

Client Name: Southern Union Gas Services- Monahans
Project Name: Trunk M Historical



Project ID:
Work Order Number: 424821

Report Date: 10-AUG-11
Date Received: 08/01/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-866813 BTEX by EPA 8021B
SW8021BM

Batch 866813, Ethylbenzene, Toluene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 424821-011, -010, -007, -008, -009.

The Laboratory Control Sample for Toluene, Ethylbenzene, m_p-Xylenes , o-Xylene is within laboratory Control Limits



Certificate of Analysis Summary 424821

Southern Union Gas Services- Monahans, Monahans, TX



Project Name: Trunk M Historical

Project Id: **424821-000**
 Contact: Rose Slade
 Project Location: Lea County, NM
 Date Received in Lab: Mon Aug-01-11 04:05 pm
 Report Date: 10-AUG-11
 Project Manager: Brent Barron II

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	424821-001	424821-002	424821-003	424821-004	424821-005	424821-006
	Sample # 1	Sample # 2	Sample # 3	Sample # 4	Sample # 5	Sample # 6					
	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL					
	Jul-28-11 08:00	Jul-28-11 08:05	Jul-28-11 08:10	Jul-28-11 08:15	Jul-28-11 08:20	Jul-28-11 08:25					
Anions by E300	Aug-03-11 16:17										
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
	RL	RL	RL	RL	RL	RL					
	7.02	32.6	7.65	7.29	18.5	14.8					
	4.41	4.52	4.43	4.63	4.55	4.58					
Percent Moisture	Aug-02-11 09:35										
	%	%	%	%	%	%					
	RL	RL	RL	RL	RL	RL					
	4.66	7.09	5.29	9.29	7.74	8.22					
TPH By SW8015 Mod	Aug-02-11 10:00										
	Aug-03-11 01:56	Aug-03-11 02:23	Aug-03-11 02:50	Aug-03-11 03:17	Aug-03-11 03:46	Aug-03-11 04:14					
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
	RL	RL	RL	RL	RL	RL					
	ND	ND	ND	ND	ND	ND					
C6-C12 Gasoline Range Hydrocarbons	15.7	16.2	15.9	16.6	16.2	16.3					
C12-C28 Diesel Range Hydrocarbons	15.7	16.2	15.9	16.6	16.2	16.3					
C28-C35 Oil Range Hydrocarbons	15.7	16.2	15.9	16.6	16.2	16.3					
Total TPH	15.7	16.2	15.9	16.6	16.2	16.3					

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Brent Barron II
 Odessa Laboratory Manager

Certificate of Analysis Summary 424821

Southern Union Gas Services- Monahans, Monahans, TX



Project Name: Trunk M Historical

Project Id: Mon Aug-01-11 04:05 pm
Contact: Rose Slade
Project Location: Lea County, NM

Date Received in Lab: Mon Aug-01-11 04:05 pm
Report Date: 10-AUG-11
Project Manager: Brent Barron II

	Lab Id:	Sample #	Sample #	Sample #	Sample #	Sample #
Analysis Requested	<i>Field Id:</i>	<i>Depth:</i>	<i>Matrix:</i>	<i>Sampled:</i>	<i>Extracted:</i>	<i>Analyzed:</i>
	<i>Units/RL:</i>	<i>mg/kg</i>	<i>RL</i>	<i>mg/kg</i>	<i>RL</i>	<i>mg/kg</i>
	<i>Units/RL:</i>	<i>mg/kg</i>	<i>RL</i>	<i>mg/kg</i>	<i>RL</i>	<i>mg/kg</i>
Anions by E300	424821-007	Sample # 7	SOIL	Jul-28-11 08:30	Aug-03-11 16:17	Aug-03-11 16:17
	210	8.40	4.53	106	4.53	58.2
	ND	0.000992	ND	ND	0.00108	ND
	ND	0.00198	ND	ND	0.00216	ND
	ND	0.000992	ND	ND	0.00108	ND
	ND	0.00198	ND	ND	0.00216	ND
	ND	0.000992	ND	ND	0.00108	ND
	ND	0.000992	ND	ND	0.00108	ND
	ND	0.000992	ND	ND	0.00108	ND
	ND	0.000992	ND	ND	0.00108	ND
BTEX by EPA 8021B	424821-008	Sample # 8	SOIL	Jul-28-11 08:35	Aug-03-11 16:17	Aug-03-11 16:17
	142	4.53	4.53	106	4.53	58.2
	ND	0.000992	ND	ND	0.00108	ND
	ND	0.00198	ND	ND	0.00216	ND
	ND	0.000992	ND	ND	0.00108	ND
	ND	0.00198	ND	ND	0.00216	ND
	ND	0.000992	ND	ND	0.00108	ND
	ND	0.000992	ND	ND	0.00108	ND
	ND	0.000992	ND	ND	0.00108	ND
Percent Moisture	424821-009	Sample # 9	SOIL	Jul-28-11 08:40	Aug-03-11 16:17	Aug-03-11 16:17
	8.16	1.00	1.00	7.30	1.00	5.95
	Aug-02-11 09:45	Aug-02-11 09:45	Aug-02-11 09:45	Aug-02-11 09:45	Aug-02-11 09:45	Aug-02-11 09:45
	%	RL	%	%	%	%
	%	RL	%	%	%	%
TPH By SW8015 Mod	424821-010	Sample # 10	SOIL	Jul-28-11 08:45	Aug-03-11 16:17	Aug-03-11 16:17
	Aug-02-11 10:00	Aug-02-11 10:00	Aug-02-11 10:00	Aug-02-11 10:00	Aug-02-11 10:00	Aug-02-11 10:00
	Aug-03-11 04:43	Aug-03-11 04:43	Aug-03-11 05:12	Aug-03-11 05:39	Aug-03-11 06:06	Aug-03-11 07:02
	mg/kg	RL	mg/kg	RL	mg/kg	RL
	ND	14.9	16.2	ND	15.9	ND
	ND	14.9	17.3	ND	15.9	ND
	ND	14.9	16.2	ND	15.9	ND
	ND	14.9	17.3	ND	15.9	ND
Chloride	424821-011	Sample # 11	SOIL	Jul-28-11 08:50	Aug-03-11 16:17	Aug-03-11 16:17
	7.11	4.46	4.46	7.11	4.46	6.88
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00210	ND	ND	0.00210	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00210	ND	ND	0.00210	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
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	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND
	ND	0.00105	ND	ND	0.00105	ND



Certificate of Analysis Summary 424821

Southern Union Gas Services- Monahans, Monahans, TX



Project Name: Trunk M Historical

Project Id:
Contact: Rose Slade
Project Location: Lea County, NM

Date Received in Lab: Mon Aug-01-11 04:05 pm
Report Date: 10-AUG-11
Project Manager: Brent Barron II

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	424821-013	424821-014	424821-015	424821-016	424821-017	424821-018
		Sample # 13	SOIL	SOIL	SOIL	Sample # 14	Sample # 15	Sample # 16	Sample # 17	Sample # 18	
		Jul-28-11 09:00	Jul-28-11 09:05	Jul-28-11 09:10	Jul-28-11 09:15	Jul-28-11 09:20	Jul-28-11 09:25				
Anions by E300	Extracted:	Aug-03-11 16:17									
	Analyzed:	mg/kg									
	Units/RL:	9.01	9.40	7.21	7.39	7.09	4.50	4.55	4.55	17.6	4.25
		4.37	4.54	4.42	4.50	4.55	4.50	4.55	4.55	17.6	4.25
Percent Moisture	Extracted:	Aug-02-11 09:45									
	Analyzed:	%	%	%	%	%	%	%	%	%	%
	Units/RL:	3.89	7.58	4.89	6.69	7.79	1.00	1.00	1.00	1.24	1.00
TPH By SW8015 Mod	Extracted:	Aug-02-11 10:00									
	Analyzed:	Aug-03-11 08:49	Aug-03-11 09:29	Aug-03-11 09:57	Aug-03-11 10:25	Aug-03-11 10:53	Aug-03-11 11:20				
	Units/RL:	mg/kg									
C6-C12 Gasoline Range Hydrocarbons		ND									
C12-C28 Diesel Range Hydrocarbons		ND									
C28-C35 Oil Range Hydrocarbons		ND									
Total TPH		ND									

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi



Brent Barron II
Odessa Laboratory Manager



Certificate of Analysis Summary 424821

Southern Union Gas Services- Monahans, Monahans, TX



Project Name: Trunk M Historical

Project Id:

Contact: Rose Slade

Project Location: Lea County, NM

Date Received in Lab: Mon Aug-01-11 04:05 pm

Report Date: 10-AUG-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	424821-019 Sample # 19 SOIL Jul-28-11 09:30	424821-020 Sample # 20 SOIL Jul-28-11 09:35		
Anions by E300	Extracted: Analyzed: Units/RL:	Aug-03-11 16:17 mg/kg RL 7.53 4.31	Aug-03-11 16:17 mg/kg RL 7.48 4.48		
Percent Moisture	Extracted: Analyzed: Units/RL:	Aug-02-11 09:45 % RL 2.52 1.00	Aug-02-11 09:45 % RL 6.33 1.00		
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	Aug-02-11 10:00 Aug-03-11 11:48 mg/kg RL ND 15.4 ND 15.4 ND 15.4	Aug-02-11 10:00 Aug-03-11 12:16 mg/kg RL ND 16.0 ND 16.0 ND 16.0		
C6-C12 Gasoline Range Hydrocarbons					
C12-C28 Diesel Range Hydrocarbons					
C28-C35 Oil Range Hydrocarbons					
Total TPH					

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Brett Barron II

Odessa Laboratory Manager

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



Form 2 - Surrogate Recoveries

Project Name: Trunk M Historical

Work Orders : 424821,

Project ID:

Lab Batch #: 866258

Sample: 424821-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/11 01:56

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.7	99.6	92	70-135	
o-Terphenyl	47.0	49.8	94	70-135	

Lab Batch #: 866258

Sample: 424821-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/11 02:23

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.5	100	94	70-135	
o-Terphenyl	48.0	50.2	96	70-135	

Lab Batch #: 866258

Sample: 424821-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/11 02:50

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	101	99	70-135	
o-Terphenyl	52.1	50.3	104	70-135	

Lab Batch #: 866258

Sample: 424821-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/11 03:17

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	100	101	70-135	
o-Terphenyl	52.8	50.2	105	70-135	

Lab Batch #: 866258

Sample: 424821-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/11 03:46

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.9	99.5	97	70-135	
o-Terphenyl	51.6	49.8	104	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Trunk M Historical

Work Orders : 424821,

Project ID:

Lab Batch #: 866258

Sample: 424821-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/11 04:14

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.4	99.7	94	70-135	
o-Terphenyl	50.0	49.9	100	70-135	

Lab Batch #: 866258

Sample: 424821-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/11 04:43

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.1	99.6	97	70-135	
o-Terphenyl	49.9	49.8	100	70-135	

Lab Batch #: 866258

Sample: 424821-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/11 05:12

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.6	100	93	70-135	
o-Terphenyl	47.4	50.1	95	70-135	

Lab Batch #: 866258

Sample: 424821-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/11 05:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.8	100	93	70-135	
o-Terphenyl	47.7	50.0	95	70-135	

Lab Batch #: 866258

Sample: 424821-010 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/11 06:06

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.9	99.9	98	70-135	
o-Terphenyl	49.5	50.0	99	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Trunk M Historical

Work Orders : 424821,

Project ID:

Lab Batch #: 866258

Sample: 424821-011 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/11 07:02

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.8	99.6	92	70-135	
o-Terphenyl	45.0	49.8	90	70-135	

Lab Batch #: 866258

Sample: 424821-012 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/11 08:14

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.7	100	98	70-135	
o-Terphenyl	49.3	50.0	99	70-135	

Lab Batch #: 866258

Sample: 424821-013 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/11 08:49

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.6	100	100	70-135	
o-Terphenyl	49.7	50.1	99	70-135	

Lab Batch #: 866258

Sample: 424821-014 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/11 09:29

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.4	99.6	98	70-135	
o-Terphenyl	49.5	49.8	99	70-135	

Lab Batch #: 866258

Sample: 424821-015 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/11 09:57

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.9	100	94	70-135	
o-Terphenyl	47.6	50.0	95	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Trunk M Historical

Work Orders : 424821,

Project ID:

Lab Batch #: 866258

Sample: 424821-016 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/11 10:25

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	99.6	100	70-135	
o-Terphenyl	52.4	49.8	105	70-135	

Lab Batch #: 866258

Sample: 424821-017 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/11 10:53

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.2	99.7	97	70-135	
o-Terphenyl	50.9	49.9	102	70-135	

Lab Batch #: 866258

Sample: 424821-018 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/11 11:20

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.8	99.7	93	70-135	
o-Terphenyl	47.4	49.9	95	70-135	

Lab Batch #: 866258

Sample: 424821-019 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/11 11:48

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.5	100	93	70-135	
o-Terphenyl	49.6	50.0	99	70-135	

Lab Batch #: 866258

Sample: 424821-020 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/11 12:16

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.5	99.8	95	70-135	
o-Terphenyl	50.4	49.9	101	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Trunk M Historical

Work Orders : 424821,

Project ID:

Lab Batch #: 866813

Sample: 424821-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/09/11 16:20

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0296	0.0300	99	80-120	
4-Bromofluorobenzene	0.0336	0.0300	112	80-120	

Lab Batch #: 866813

Sample: 424821-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/09/11 16:43

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0286	0.0300	95	80-120	
4-Bromofluorobenzene	0.0311	0.0300	104	80-120	

Lab Batch #: 866813

Sample: 424821-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/09/11 17:06

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0298	0.0300	99	80-120	
4-Bromofluorobenzene	0.0317	0.0300	106	80-120	

Lab Batch #: 866813

Sample: 424821-010 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/09/11 17:29

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0299	0.0300	100	80-120	
4-Bromofluorobenzene	0.0314	0.0300	105	80-120	

Lab Batch #: 866813

Sample: 424821-011 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/09/11 20:09

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	0.0314	0.0300	105	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Trunk M Historical

Work Orders : 424821,

Project ID:

Lab Batch #: 866258

Sample: 609288-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/03/11 01:27

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.6	99.7	89	70-135	
o-Terphenyl	46.1	49.9	92	70-135	

Lab Batch #: 866813

Sample: 609590-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/09/11 13:11

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0278	0.0300	93	80-120	
4-Bromofluorobenzene	0.0294	0.0300	98	80-120	

Lab Batch #: 866258

Sample: 609288-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/03/11 00:33

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.8	99.6	90	70-135	
o-Terphenyl	45.1	49.8	91	70-135	

Lab Batch #: 866813

Sample: 609590-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/09/11 11:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	0.0311	0.0300	104	80-120	

Lab Batch #: 866258

Sample: 609288-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/03/11 01:00

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.2	100	93	70-135	
o-Terphenyl	46.1	50.0	92	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Trunk M Historical

Work Orders : 424821,

Project ID:

Lab Batch #: 866813

Sample: 609590-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/09/11 12:03

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0293	0.0300	98	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

Lab Batch #: 866258

Sample: 424821-020 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/11 12:45

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.7	100	94	70-135	
o-Terphenyl	46.1	50.2	92	70-135	

Lab Batch #: 866813

Sample: 424398-005 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/09/11 17:52

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	0.0323	0.0300	108	80-120	

Lab Batch #: 866258

Sample: 424821-020 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/11 13:13

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	108	101	107	70-135	
o-Terphenyl	48.1	50.3	96	70-135	

Lab Batch #: 866813

Sample: 424398-005 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/09/11 18:15

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0302	0.0300	101	80-120	
4-Bromofluorobenzene	0.0310	0.0300	103	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Project Name: Trunk M Historical

Work Order #: 424821

Analyst: ASA

Lab Batch ID: 866813

Sample: 609590-1-BKS

Date Prepared: 08/09/2011

Batch #: 1

Project ID:

Date Analyzed: 08/09/2011

Matrix: Solid

Units: mg/kg

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
BTEX by EPA 8021B	<0.00100	0.100	0.117	117	0.100	0.114	114	3	70-130	35	
Benzene	<0.00200	0.100	0.103	103	0.100	0.101	101	2	70-130	35	
Toluene	<0.00100	0.100	0.114	114	0.100	0.110	110	4	71-129	35	
Ethylbenzene	<0.00200	0.200	0.232	116	0.200	0.222	111	4	70-135	35	
m_p-Xylenes	<0.00100	0.100	0.107	107	0.100	0.102	102	5	71-133	35	
o-Xylene											

Date Prepared: 08/03/2011

Analyst: BRB

Sample: 866288-1-BKS

Date Analyzed: 08/03/2011

Matrix: Solid

Units: mg/kg

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Anions by E300	<0.840	20.0	21.3	107	20.0	21.1	106	1	75-125	20	
Chloride											

Relative Percent Difference RPD = $200 * ((C-F) / ((C+F)))$
 Blank Spike Recovery [D] = $100 * (C) / [B]$
 Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$
 All results are based on MDL and Validated for QC Purposes

Project Name: Trunk M Historical

Work Order #: 424821

Analyst: BEV

Lab Batch ID: 866258

Sample: 609288-1-BKS

Date Prepared: 08/02/2011

Batch #: 1

Project ID:

Date Analyzed: 08/03/2011

Matrix: Solid

Units: mg/kg

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<14.9	996	912	92	1000	977	98	7	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<14.9	996	881	88	1000	921	92	4	70-135	35	

Relative Percent Difference RPD = $200 * (C-F) / (C+F)$
 Blank Spike Recovery [D] = $100 * (C) / [B]$
 Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$
 All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Project Name: Trunk M Historical

Work Order #: 424821
Lab Batch #: 866288
Date Analyzed: 08/03/2011
QC- Sample ID: 424821-007 S
Reporting Units: mg/kg

Date Prepared: 08/03/2011

Project ID:
Analyst: BRB
Matrix: Soil

Batch #: 1

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	210	200	413	102	75-125	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: Trunk M Historical

Work Order #: 424821

Lab Batch ID: 866813

Date Analyzed: 08/09/2011

Reporting Units: mg/kg

Project ID:

QC- Sample ID: 424398-005 S

Date Prepared: 08/09/2011

Batch #: 1 Matrix: Soil

Analyst: ASA

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00103	0.103	0.0860	83	0.103	0.0831	81	3	70-130	35	
Toluene	<0.00207	0.103	0.0701	68	0.103	0.0663	64	6	70-130	35	X
Ethylbenzene	0.00512	0.103	0.0721	65	0.103	0.0670	60	7	71-129	35	X
m_p-Xylenes	0.00907	0.207	0.139	63	0.207	0.128	57	8	70-135	35	X
o-Xylene	0.00477	0.103	0.0630	57	0.103	0.0567	50	11	71-133	35	X

Lab Batch ID: 866258

Date Analyzed: 08/03/2011

Reporting Units: mg/kg

QC- Sample ID: 424821-020 S

Date Prepared: 08/02/2011

Batch #: 1 Matrix: Soil

Analyst: BEV

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<16.1	1070	981	92	1070	1020	95	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<16.1	1070	946	88	1070	1000	93	6	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Sample Duplicate Recovery



Project Name: Trunk M Historical

Work Order #: 424821

Lab Batch #: 866288

Project ID:

Date Analyzed: 08/03/2011 16:17

Date Prepared: 08/03/2011

Analyst: BRB

QC- Sample ID: 424821-007 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

SAMPLE / SAMPLE DUPLICATE RECOVERY

Anions by E300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	210	210	0	20	

Lab Batch #: 866130

Date Analyzed: 08/02/2011 09:35

Date Prepared: 08/02/2011

Analyst: WRU

QC- Sample ID: 424836-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	6.77	6.96	3	20	

Lab Batch #: 866173

Date Analyzed: 08/02/2011 09:45

Date Prepared: 08/02/2011

Analyst: BRB

QC- Sample ID: 424821-007 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	8.16	7.96	2	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit

Xenco Laboratories

Page 2 of 2

12600 West I-20 East
Odessa, Texas 79765

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST
Phone: 432-563-1800
Fax: 432-563-1713

Trunk M Historical

Project Manager: Ben J. Argujilo
Company Name: Basin Environmental Service Technologies, LLC
Company Address: P.O. Box 301
City/State/Zip: Lovington, NM 88260
Telephone No: (575) 396-2378
Sampler Signature: [Signature]
e-mail: pm@basinenv.com
Fax No: (575) 396-1429

Project Name: Southern Union Gas
Project #: _____
Project Loc: Lea County, NM
PO #: _____
Report Format: Standard TRRP NPDES

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	Matrix	TPH: 418.1 (8015M) 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	Chlorides	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY
	011 Sample # 11			7-28-11	8:50		1	X								Soil												
	012 Sample # 12			7-28-11	8:55		1	X								Soil												
	013 Sample # 13			7-28-11	9:00		1	X								Soil												
	014 Sample # 14			7-28-11	9:05		1	X								Soil												
	015 Sample # 15			7-28-11	9:10		1	X								Soil												
	016 Sample # 16			7-28-11	9:15		1	X								Soil												
	017 Sample # 17			7-28-11	9:20		1	X								Soil												
	018 Sample # 18			7-28-11	9:25		1	X								Soil												
	019 Sample # 19			7-28-11	9:30		1	X								Soil												
	020 Sample # 20			7-28-11	9:35		1	X								Soil												

Special Instructions: Hold for BTEX

Relinquished by:	Date	Time	Received by:	Date	Time
[Signature]	7-29-11	9:11	[Signature]	7-29-11	9:11
[Signature]	8-1-20-11	12:45	[Signature]	8-1-11	12:45
[Signature]	8-1-11	16:05	[Signature]	8-1-11	16:05

Temperature Upon Receipt: 3.1 °C

UPS DHL
FedEx Lone Star



XENCO Laboratories
 Atlanta, Boca Raton, Corpus Christi, Dallas
 Houston, Miami, Odessa, Philadelphia
 Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist
 Document No.: SYS-SRC
 Revision/Date: No. 01, 5/27/2010
 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Southern Union Gas
 Date/Time: 8-1-11 16 05
 Lab ID #: 424821
 Initials: SL

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and <u>bottles</u> ?	<u>Yes</u>	No	<u>N/A</u>	<u>SL</u>
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	<u>No</u>	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>3.1</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that apply:
- Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
 - Initial and Backup Temperature confirm out of temperature conditions
 - Client understands and would like to proceed with analysis

Analytical Report 424819
for
Southern Union Gas Services- Monahans

Project Manager: Rose Slade
Trunk M Historical

02-AUG-11

Collected By: Client



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Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

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Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

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Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



02-AUG-11

Project Manager: **Rose Slade**
Southern Union Gas Services- Monahans
1507 W. 15th Street
Monahans, TX 79756

Reference: XENCO Report No: **424819**
Trunk M Historical
Project Address: Lea County, NM

Rose Slade:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 424819. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 424819 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron II

Odessa Laboratory Manager

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Sample Cross Reference 424819



Southern Union Gas Services- Monahans, Monahans, TX
Trunk M Historical

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Stock Pile # 1	S	08-01-11 12:30		424819-001
Stock Pile # 2	S	08-01-11 08:30		424819-002



CASE NARRATIVE

Client Name: Southern Union Gas Services- Monahans

Project Name: Trunk M Historical



Project ID:

Work Order Number: 424819

Report Date: 02-AUG-11

Date Received: 08/01/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-866057 TPH By SW8015 Mod
SW8015MOD_NM

Batch 866057, 1-Chlorooctane, o-Terphenyl recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 424742-001 SD.

Batch: LBA-866106 Anions by E300

RPD recoverd outside QC limits between the sample and sample duplicate.



Certificate of Analysis Summary 424819

Southern Union Gas Services- Monahans, Monahans, TX



Project Name: Trunk M Historical

Project Id:
 Contact: Rose Slade
 Project Location: Lea County, NM

Date Received in Lab: Mon Aug-01-11 04:05 pm
 Report Date: 02-AUG-11
 Project Manager: Brent Barron II

Analysis Requested	Lab Id: 424819-001	424819-002		
	Field Id: Stock Pile # 1	Stock Pile # 2		
	Depth: SOIL	SOIL		
	Matrix: Aug-01-11 12:30	Aug-01-11 08:30		
	Sampled: Aug-02-11 08:00	Aug-02-11 08:00		
Anions by E300	Extracted: mg/kg	mg/kg		
	Analyzed: RL	RL		
	Units/RL: 31.8 8.53	24.0 4.25		
Chloride				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron II
 Odessa Laboratory Manager



Certificate of Analysis Summary 424819

Southern Union Gas Services- Monahans, Monahans, TX



Project Id: Contact: Rose Slade
Project Location: Lea County, NM

Date Received in Lab: Mon Aug-01-11 04:05 pm
Report Date: 02-AUG-11
Project Manager: Brent Barron II

Project Name: Trunk M Historical

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	424819-001 Stock Pile # 1 SOIL Aug-01-11 12:30	424819-002 Stock Pile # 2 SOIL Aug-01-11 08:30
Percent Moisture	Extracted: Analyzed: Units/RL:	% RL Aug-01-11 16:30 1.52 1.00	% RL Aug-01-11 16:30 1.12 1.00
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	mg/kg RL Aug-01-11 16:30 125 15.3	mg/kg RL Aug-01-11 16:30 227 15.2
C6-C12 Gasoline Range Hydrocarbons		1300 15.3	2270 15.2
C12-C28 Diesel Range Hydrocarbons		26.5 15.3	22.3 15.2
C28-C35 Oil Range Hydrocarbons		1450 15.3	2520 15.2
Total TPH			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron II
 Odessa Laboratory Manager

Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



Form 2 - Surrogate Recoveries

Project Name: Trunk M Historical

Work Orders : 424819,

Project ID:

Lab Batch #: 866057

Sample: 424819-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/01/11 22:36

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	77.4	100	77	70-135	
o-Terphenyl	37.7	50.1	75	70-135	

Lab Batch #: 866057

Sample: 424819-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/01/11 23:03

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.3	100	96	70-135	
o-Terphenyl	47.2	50.1	94	70-135	

Lab Batch #: 866057

Sample: 609173-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/01/11 14:14

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	100	119	70-135	
o-Terphenyl	66.9	50.2	133	70-135	

Lab Batch #: 866057

Sample: 609173-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/01/11 13:19

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	131	100	131	70-135	
o-Terphenyl	65.2	50.1	130	70-135	

Lab Batch #: 866057

Sample: 609173-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/01/11 13:46

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	62.0	50.0	124	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Trunk M Historical

Work Orders : 424819,

Project ID:

Lab Batch #: 866057

Sample: 424742-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/01/11 23:30

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	139	200	70	70-135	
o-Terphenyl	69.7	100	70	70-135	

Lab Batch #: 866057

Sample: 424742-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/01/11 23:58

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	138	100	138	70-135	*
o-Terphenyl	68.2	50.1	136	70-135	*

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Project Name: Trunk M Historical

Work Order #: 424819

Analyst: BRB

Lab Batch ID: 866106

Date Prepared: 08/02/2011

Batch #: 1

Sample: 866106-1-BKS

Project ID:

Date Analyzed: 08/02/2011

Matrix: Solid

Units: mg/kg

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<0.840	20.0	21.4	107	20.0	23.0	115	7	75-125	20	

Analyst: BEV

Lab Batch ID: 866057

Sample: 609173-1-BKS

Date Prepared: 08/01/2011

Batch #: 1

Date Analyzed: 08/01/2011

Matrix: Solid

Units: mg/kg

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
TPH By SW8015 Mod											
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	1040	104	1000	946	95	9	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	1010	101	1000	929	93	8	70-135	35	

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$
 Blank Spike Recovery [D] = $100 * (C/[B])$
 Blank Spike Duplicate Recovery [G] = $100 * (F/[E])$
 All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Project Name: Trunk M Historical

Work Order #: 424819

Lab Batch #: 866106

Date Analyzed: 08/02/2011

QC- Sample ID: 424819-001 S

Reporting Units: mg/kg

Date Prepared: 08/02/2011

Batch #: 1

Project ID:

Analyst: BRB

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
	Chloride	31.8	203	247	106	75-125

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Relative Percent Difference [E] = 200*(C-A)/(C+B)

All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: Trunk M Historical

Work Order #: 424819

Lab Batch ID: 866057

Date Analyzed: 08/01/2011

Reporting Units: mg/kg

Project ID:

QC- Sample ID: 424742-001 S

Batch #: 1 Matrix: Soil

Date Prepared: 08/01/2011 Analyst: BEV

Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<17.1	1140	1320	116	1140	1310	115	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<17.1	1140	1270	111	1140	1230	108	3	70-135	35	

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable, N = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Trunk M Historical

Work Order #: 424819

Lab Batch #: 866106	Date Analyzed: 08/02/2011 08:00	Project ID:
QC- Sample ID: 424819-001 D	Date Prepared: 08/02/2011	Analyst: BRB
Reporting Units: mg/kg	Batch #: 1	Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	31.8	43.0	30	20	F

Lab Batch #: 866070	Date Analyzed: 08/01/2011 14:00	Project ID:
QC- Sample ID: 424790-001 D	Date Prepared: 08/01/2011	Analyst: BRB
Reporting Units: %	Batch #: 1	Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	2.05	1.95	5	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



XENCO Laboratories
 Atlanta, Boca Raton, Corpus Christi, Dallas
 Houston, Miami, Odessa, Philadelphia
 Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist
 Document No.: SYS-SRC
 Revision/Date: No. 01, 5/27/2010
 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Southern Union Gas
 Date/Time: 8-1-11 16:05
 Lab ID #: 424819
 Initials: SL

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and <u>bottles</u> ?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	<u>No</u>	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>3.1</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that apply:
- Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
 - Initial and Backup Temperature confirm out of temperature conditions
 - Client understands and would like to proceed with analysis