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REMEDIATION SUMMARY & SITE CLOSURE REQUEST

SOUTHERN UNION GAS SERVICES
TRUNK "O" #1
HISTORICAL RELEASE SITE
Lea County, New Mexico
Unit Letter "L" (NW/SW), Section 22, Township 22 South, Range 36 East
Latitude 32° 22.460' North, Longitude 103° 15.588' West
NMOCD Reference # 1RP-1507

Prepared For:

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

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

December 2012

Joel W. Lowry
Project Manager

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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 Trunk "O" #1 Historical Release Site (1RP-1507). The legal description of the release site is Unit Letter "L" (NW/SW), Section 22, Township 22 South, Range 36 East, in Lea County, New Mexico. The geographic coordinates of the release site are 32° 22.460' North latitude and 103° 15.588' West longitude. The property affected by the release is owned by Dasco Land and Cattle Company. Please reference Figure 1 for a "Site Location Map".

On July 21, 2007, Southern Union discovered a release had occurred on the Trunk "O" Pipeline. The "Release Notification and Corrective Action Form" (Form C-141) indicated failure of a section of thirty-inch (30") low-pressure pipeline resulted in the release of approximately sixty barrels (60 bbls) of crude oil and produced water mixture along with one thousand, two hundred fifteen (1,215) Mcf of natural gas. During initial response activities approximately forty barrels (40 bbls) of free standing fluid was recovered with a vacuum truck. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office on discovery. The Form C-141, filed August 2, 2007, indicated the release affected approximately two thousand, four hundred square feet (2,400 ft²) of pasture land and nine hundred square feet (900 ft²) of caliche lease road. General photographs of the release site are provided as Appendix A. The Form C-141 is provided as Appendix D.

Between July 26, and August 10, 2007, remediation activities were conducted at the Trunk "O" #1 Release Site by an environmental contractor that is no longer affiliated with the site. The nature and extent of the aforementioned activities remains unclear, as environmental reports and work records are not readily available. Transporter's manifests indicate at least two hundred fifty-two cubic yards (252 yd³) of impacted material was transported to Southern Union Gas Services' Landfarm (Discharge Permit # NM-02-0019) for treatment during this time. Copies of transport's manifests are provided as Appendix C.

On June 22, 2012, at the request of Southern Union, Basin assumed remediation responsibilities at the Trunk "O" #1 Historical Release Site.

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 Unit Letter L, Section 22, Township 22 South, Range 36 East. A depth to groundwater reference map utilized by the NMOCD indicated groundwater should be encountered at approximately two hundred fifty feet (250') 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 one thousand feet (1,000') 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 one thousand feet (1,000') 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 "O" #1 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)
- Benzene, toluene, ethylbenzene and xylene (BTEX) 50 mg/Kg (ppm)
- Total petroleum hydrocarbons (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 October 30, 2012, Basin responded to the Trunk "O" #1 Historical Release Site. An initial investigation indicated previous remediation activities had been conducted at the release site. A series of six (6) test trenches were advanced within the historical release flowpath in an effort to determine if impacted soil containing BTEX, TPH, and chloride concentrations above NMOCD regulatory standards remained in-situ.

Test Trench #1 was advanced to approximately eight feet (8') bgs near the northwest margin of the historical release flowpath. During the advancement of the test trench, select soil sample were field-screened using a photo-ionization detector (PID) and chloride field test kit. Three (3) soil samples (TT-1 @ 3', TT-1 @ 6' and TT-1 @ 8') were collected and submitted to Xenco Laboratories, of Odessa, Texas, for determination of chloride concentrations in accordance with EPA Method 300.1. Laboratory analytical results indicated chloride concentrations ranged from 30.9 mg/Kg for soil sample TT-1 @ 8' to 343 mg/Kg for soil sample TT-1 @ 6'. Soil samples TT-1 @ 3' and TT-1 @ 8' were also analyzed for concentrations of TPH in accordance with EPA Method SW 846-8015M. Analytical results indicated TPH concentrations were less than the appropriate laboratory method detection limit (MDL) for each of the submitted soil samples. Table 1 summarizes the "Concentrations of Benzene, BTEX, TPH & Chloride in Soil". Soil sample locations are depicted in Figure 2, "Site & Sample Location Map". Laboratory analytical reports are provided as Appendix B.

Test Trench #2 was advanced to approximately six feet (6') bgs approximately ten feet (10') northeast of the inferred release point, within the historical release flowpath. During the advancement of the test trench, two (2) soil samples (TT-2 @ 3' and TT-2 @ 6') were collected and submitted to the laboratory for analysis of chloride and TPH concentrations. Laboratory analytical results indicated chloride concentrations ranged from 10.4 mg/Kg for soil sample TT-2 @ 3' to 33.9 mg/Kg in soil sample TT-2 @ 6'. Analytical reports indicated TPH concentrations were less than the appropriate laboratory MDL for each of the soil samples submitted.

Test Trench #3 was advanced to approximately eight feet (8') begs near the inferred center of the historical release pooling area. During the advancement of the test trench, three (3) soil samples

(TT-3 @ 3, TT-3 @ 6', and TT-3 @ 8') were collected and submitted to the laboratory for chloride analysis. Laboratory analytical results indicated chloride concentrations ranged from 181 mg/Kg for soil sample TT-3 @ 8' to 309 mg/Kg in soil sample TT-3 @ 3'. Soil samples TT-3 @ 3' and TT-3 @ 8' were also analyzed for concentrations of TPH. Analytical results indicated TPH concentrations were less than the appropriate laboratory MDL for each of the soil samples submitted.

Test Trench #4 was advanced to approximately eight feet (8') bgs adjacent to the inferred release point, west of the Trunk "O" Pipeline. During the advancement of the test trench, three (3) soil samples (TT-4 @ 3', TT-4 @ 6' and TT-4 @ 8') were collected and submitted to the laboratory for chloride analysis. Laboratory analytical results indicated chloride concentrations ranged from 65.7 mg/Kg for soil sample TT-4 @ 3' to 219 mg/Kg for soil sample TT-4 @ 6'. Soil samples TT-4 @ 3' and TT-4 @ 8' were also analyzed for concentrations of TPH. Analytical results indicated TPH concentrations were less than the appropriate laboratory MDL for each of the soil samples submitted. Soil sample TT-4 @ 8' was also analyzed for BTEX constituent concentrations in accordance with EPA Method SW 846-821B. Analytical results indicated the BTEX concentration was less than the appropriate laboratory MDL for each constituent.

Test Trench #5 was advanced to approximately thirteen and one-half feet (13.5') bgs near the inferred center of the historical release flowpath. During the advancement of the test trench, three (3) soil samples (TT-5 @ 3', TT-5 @ 8' and TT-5 @ 13.5') were collected and submitted to the laboratory for chloride analysis. Laboratory analytical results indicated chloride concentrations ranged from 242 mg/Kg for soil sample TT-5 @ 15.5' to 535 mg/Kg in soil sample TT-5 @ 8'. Soil samples TT-5 @ 3' and TT-5 @ 15.5' were also analyzed for concentrations of TPH. Analytical results indicated TPH concentrations were less than the appropriate laboratory MDL for each of the soil samples submitted. Soil sample TT-5 @ 13.5' was also analyzed for BTEX constituent concentrations. Analytical results indicated the BTEX concentration was less than the appropriate laboratory MDL for each constituent.

Test Trench #6 was advanced to approximately six feet (6') bgs near the inferred southern terminus of the historical release flowpath. During the advancement of the test trench, two (2) soil samples (TT-6 @ 3' and TT-6 @ 6') were collected and submitted to the laboratory for chloride and TPH analysis. Laboratory analytical results indicated chloride concentrations ranged from 15.6 mg/Kg for soil sample TT-6 @ 6' to 322 mg/Kg in soil sample TT-6 @ 3'. Analytical results indicated TPH concentrations were less than the appropriate laboratory MDL for each of the soil samples submitted.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to Xenco Laboratories, of Odessa, Texas, for BTEX, TPH, and/or chloride analyses using the methods described below:

- 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 300/300.1

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 reports or are on file at the laboratory.

5.0 SITE CLOSURE REQUEST

Confirmation soil samples collected from the six (6) on-site test trenches suggested previous remediation activities at the Trunk "O" #1 Release Site met the requirements of the NMOCD's "Guidelines for Remediation of Leaks, Spills and Releases". Laboratory analytical results indicated benzene, BTEX, TPH and chloride concentrations were less than NMOCD regulatory remediation action levels in each of the submitted soil samples. Based on these laboratory analytical results, Basin recommends Southern Union provide the NMOCD Hobbs District Office a copy of this *Remediation Summary & Site Closure Request* and request the NMOCD grant site closure to the Trunk "O" #1Historical 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: Rose Slade

Southern Union Gas Services

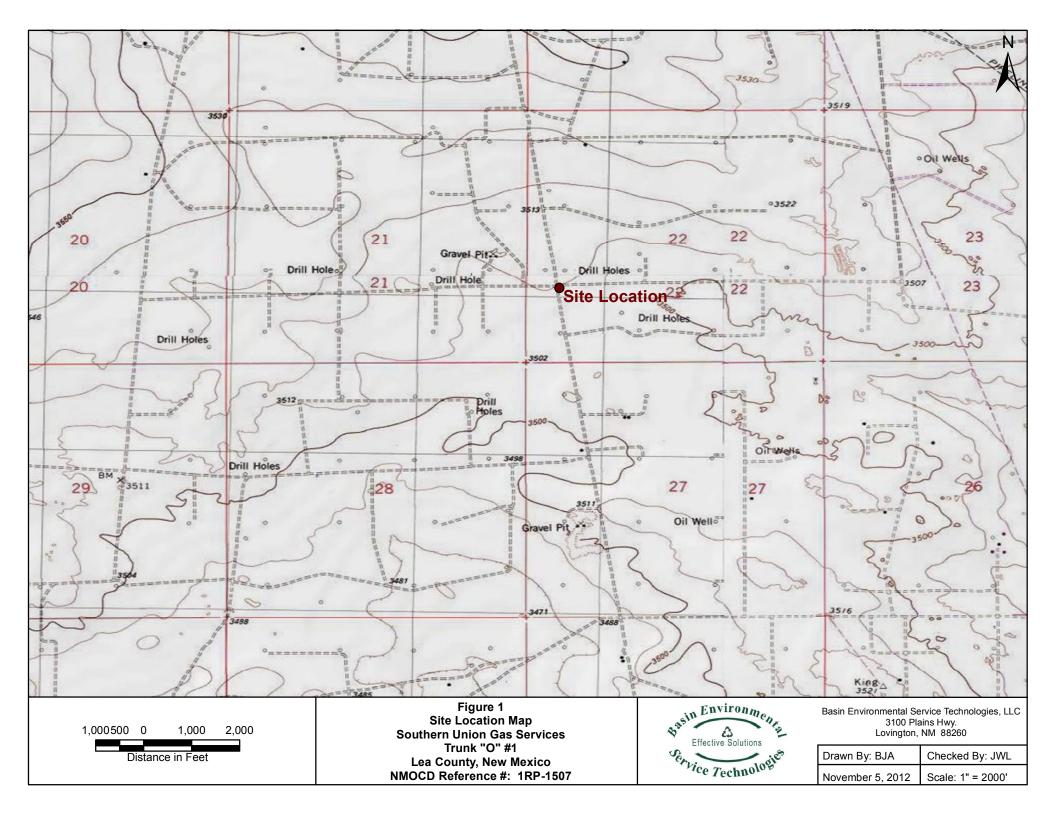
801 S. Loop 464

Monahans, Texas 79756 rose.slade@sug.com

Copy 3: Basin Environmental Service Technologies, LLC

P.O. Box 301

Lovington, New Mexico 88260



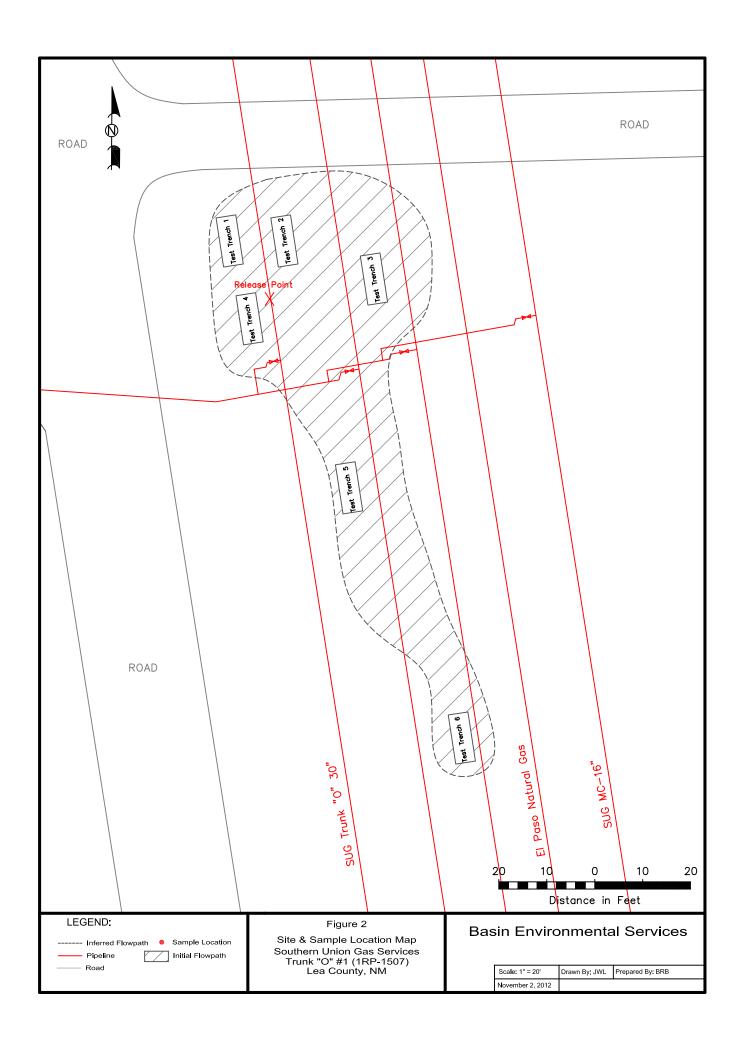


TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

SOUTHERN UNION GAS SERVICES TRUNK "O" #1 HISTORICAL RELEASE SITE LEA COUNTY, NEW MEXICO NMOCD REFERENCE NO: 1RP-1507

					M	IETHOD: EPA	SW 846-802	1B, 5030			ME	THOD: 801	5M	TOTAL	E 300
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	M.P XYLENES (mg/Kg)	O- XYLENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
TT-1 @ 3'	3'	10/30/2012	In-Situ	-	-	-	-	-		-	<16.8	<16.8	<16.8	<16.8	204
TT-1 @ 6'	6'	10/30/2012	In-Situ	-	-	-	-	-	-	-	-	-	-	-	343
TT-1 @ 8'	8'	10/30/2012	In-Situ		-	-	-	-	-		<19.2	<19.2	<19.2	<19.2	30.9
TT-2 @ 3'	3'	10/30/2012	In-Situ		-	-	-	-	-		<17.7	<17.7	<17.7	<17.7	10.4
TT-2 @ 6'	6'	10/30/2012	In-Situ		-	-	-	-	-	ı	<16.9	<16.9	<16.9	<16.9	33.9
TT-3 @ 3'	3'	10/30/2012	In-Situ		-	-	-	-	-	ı	<17.7	<17.7	<17.7	<17.7	309
TT-3 @ 6'	6'	10/30/2012	In-Situ		-	-	-	-	-	ı	-	-	-	-	191
TT-3 @ 8'	8'	10/30/2012	In-Situ		-	-	-	-	-	ı	<16.0	<16.0	<16.0	<16.0	181
TT-4 @ 3'	3'	10/30/2012	In-Situ		-	-	-	-	-	ı	<20.0	<20.0	<20.0	<20.0	65.7
TT-4 @ 6'	6'	10/30/2012	In-Situ		-	-	-	-	-	ı	-	-	-	-	219
TT-4 @ 8'	8'	10/30/2012	In-Situ	<0.00106	<0.00212	<0.00106	< 0.00212	<0.00106	<0.00106	< 0.00212	<15.8	<15.8	<15.8	<15.8	142
TT-5 @ 3'	3'	10/30/2012	In-Situ	ı	-	-	-	-	-	ı	<16.5	<16.5	<16.5	<16.5	294
TT-5 @ 8'	8'	10/30/2012	In-Situ	-	-	-	-	-	-	-	-	-	-	-	535
TT-5 @ 13.5'	13.5'	10/30/2012	In-Situ	<0.00110	<0.00219	<0.00110	< 0.00219	<0.00110	< 0.00219	< 0.00219	<16.5	<16.5	<16.5	<16.5	242
TT-6 @ 3'	3'	10/30/2012	In-Situ		-	-	-	-	-		<16.5	<16.5	<16.5	<16.5	322
TT-6 @ 6'	6'	10/30/2012	In-Situ	-	-	-	-	-	-		<19.3	<19.3	<19.3	<19.3	15.6
MOCD Regulatory Standa	rd			10				50						5,000	1,000

^{- =} Not analyzed.

Analytical Report 451912

for Southern Union Gas Services- Monahans

Project Manager: Joel Lowry
Trunk "O" #1
(RP-1507)

15-NOV-12

Collected By: Client





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), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135) Louisiana (04176), USDA (P330-07-00105)

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

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

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)





15-NOV-12

Project Manager: Joel Lowry

Southern Union Gas Services- Monahans

801 South Loop 464 Monahans, TX 79756

Reference: XENCO Report No: 451912

Trunk "O" #1

Project Address: Lea County,NM

Joel Lowry:

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 451912. 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. The uncertainty of measurement associated with the results of analysis reported is available upon request. 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. 451912 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.

Nicholas Straccione

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 451912



Southern Union Gas Services- Monahans, Monahans, TX

Trunk "O" #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TT-1 @ 3'	S	10-30-12 09:45	- 3 ft	451912-001
TT-1 @ 6'	S	10-30-12 09:50	- 6 ft	451912-002
TT-1 @ 8'	S	10-30-12 09:55	- 8 ft	451912-003
TT-2 @ 3'	S	10-30-12 10:05	- 3 ft	451912-004
TT-2 @ 6'	S	10-30-12 10:10	- 6 ft	451912-005
TT-3 @ 3'	S	10-30-12 10:25	- 3 ft	451912-006
TT-3 @ 6'	S	10-30-12 10:30	- 6 ft	451912-007
TT-3 @ 8'	S	10-30-12 10:35	- 8 ft	451912-008
TT-4 @ 3'	S	10-30-12 10:50	- 3 ft	451912-009
TT-4 @ 6'	S	10-30-12 10:55	- 6 ft	451912-010
TT-4 @ 8'	S	10-30-12 11:00	- 8 ft	451912-011
TT-5 @ 3'	S	10-30-12 11:20	- 3 ft	451912-012
TT-5 @ 8'	S	10-30-12 11:40	- 8 ft	451912-013
TT-5 @ 13.5'	S	10-30-12 12:10	- 13.5 ft	451912-014
TT-6 @ 3'	S	10-30-12 13:40	- 3 ft	451912-015
TT-6 @ 6'	S	10-30-12 13:50	- 6 ft	451912-016

CASE NARRATIVE



Client Name: Southern Union Gas Services- Monahans

Project Name: Trunk "O" #1



Project ID: (RP-1507) Report Date: 15-NOV-12 Work Order Number: 451912 Date Received: 11/05/2012

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Page 4 of 22

Final 1.001



Project Location: Lea County,NM

Certificate of Analysis Summary 451912

Southern Union Gas Services- Monahans, Monahans, TX



Project Name: Trunk "O" #1

Project Id: (RP-1507)

Contact: Joel Lowry

Date Received in Lab: Mon Nov-05-12 10:04 am

Report Date: 15-NOV-12

Project Manager: Nicholas Straccione

								r roject wiai	iagei. I	viciolas Strac	CIOHE		
	Lab Id:	451912-0	001	451912-0	02	451912-0	03	451912-0	04	451912-0	05	451912-00	06
Analysis Requested	Field Id:	TT-1 @	3'	TT-1 @	6'	TT-1 @	8'	TT-2 @	3'	TT-2 @ 6	5'	TT-3 @ 3	3'
Anaiysis Kequesieu	Depth:	3 ft		6 ft		8 ft		3 ft		6 ft		TT-3 @ 3 ft SOIL Oct-30-12 1 Nov-10-12 Nov-10-12 mg/kg 309 Nov-09-12 % 14.9 Nov-12-12 Nov-13-12 mg/kg ND ND	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-30-12 ()9:45	Oct-30-12 0	9:50	Oct-30-12 0	9:55	Oct-30-12 1	0:05	Oct-30-12 1	0:10	Oct-30-12 10	0:25
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-10-12	21:28	Nov-10-12 2	21:45	Nov-10-12 2	22:33	Nov-10-12 2	22:49	Nov-10-12 2	:3:05	Nov-10-12 2	23:21
SUB: TX104704215	Analyzed:	Nov-10-12	21:28	Nov-10-12 2	21:45	Nov-10-12 2	22:33	Nov-10-12 2	22:49	Nov-10-12 2	23:05	Nov-10-12 2	23:21
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		204	1.12	343	1.08	30.9	1.28	10.4	1.19	33.9	1.13	309	1.18
Percent Moisture	Extracted:												
	Analyzed:	Nov-09-12	12:30	Nov-09-12 1	2:30	Nov-09-12 1	12:30	Nov-09-12 1	12:30	Nov-09-12 1	2:30	Nov-09-12 1	12:35
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		9.52	1.00	6.18	1.00	21.0	1.00	16.6	1.00	10.7	1.00	14.9	1.00
TPH By SW8015 Mod	Extracted:	Nov-12-12	07:45			Nov-12-12 (07:45	Nov-12-12 ()7:45	Nov-12-12 0	7:45	Nov-12-12 1	12:00
	Analyzed:	Nov-12-12	19:24			Nov-12-12 1	19:54	Nov-12-12 2	20:24	Nov-12-12 2	20:53	Nov-13-12 0	01:07
	Units/RL:	mg/kg	RL			mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	16.8			ND	19.2	ND	17.7	ND	16.9	ND	17.7
C12-C28 Diesel Range Hydrocarbons		ND	16.8			ND	19.2	ND	17.7	ND	16.9	ND	17.7
C28-C35 Oil Range Hydrocarbons		ND	16.8		·	ND	19.2	ND	17.7	ND	16.9	ND	17.7
Total TPH		ND	16.8	•		ND	19.2	ND	17.7	ND	16.9	ND	17.7

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

Nicholas Stracciona



Project Id: (RP-1507)

Project Location: Lea County, NM

Certificate of Analysis Summary 451912

Southern Union Gas Services- Monahans, Monahans, TX



Project Name: Trunk "O" #1

Contact: Joel Lowry

Date Received in Lab: Mon Nov-05-12 10:04 am

Report Date: 15-NOV-12

Project Manager: Nicholas Straccione

								1 Tuject Mai	iagei:	Micholas Strac	CIOHE		
	Lab Id:	451912-0	007	451912-0	08	451912-0	09	451912-0	10	451912-0	11	451912-0	012
Analysis Requested	Field Id:	TT-3 @	6'	TT-3 @	8'	TT-4 @ 3	3'	TT-4 @	6'	TT-4 @	8'	TT-5 @	3'
Anaiysis Requesieu	Depth:	6 ft		8 ft		3 ft		6 ft		8 ft		3 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-30-12	10:30	Oct-30-12 1	0:35	Oct-30-12 1	0:50	Oct-30-12	0:55	Oct-30-12 1	1:00	Oct-30-12 1	11:20
BTEX by EPA 8021B	Extracted:									Nov-15-12 (08:15		
	Analyzed:									Nov-15-12 (09:49		
	Units/RL:									mg/kg	RL		
Benzene										ND	0.00106		
Toluene										ND	0.00212		
Ethylbenzene										ND	0.00106		
m_p-Xylenes										ND	0.00212		
o-Xylene										ND	0.00106		
Total Xylenes										ND 0.00106			
Total BTEX										ND	0.00106		
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-10-12	23:37	Nov-10-12 2	23:53	Nov-11-12 (00:09	Nov-11-12	00:26	Nov-11-12 (00:42	Nov-11-12 (00:58
SUB: TX104704215	Analyzed:	Nov-10-12	23:37	Nov-10-12 2	23:53	Nov-11-12 (00:09	Nov-11-12	00:26	Nov-11-12 (00:42	Nov-11-12 (00:58
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		191	1.05	181	1.07	65.7	1.34	219	1.12	142	1.06	294	1.10
Percent Moisture	Extracted:												
	Analyzed:	Nov-09-12	12:35	Nov-09-12 1	2:35	Nov-09-12 1	12:35	Nov-09-12	12:35	Nov-09-12	12:35	Nov-09-12	12:35
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		4.55	1.00	5.71	1.00	25.5	1.00	9.84	1.00	5.09	1.00	9.01	1.00
TPH By SW8015 Mod	Extracted:			Nov-12-12 1	2:00	Nov-12-12 1	12:00			Nov-12-12	12:00	Nov-12-12	12:00
	Analyzed:			Nov-13-12 (2:30	Nov-13-12 (02:57			Nov-13-12 (03:24	Nov-13-12 (03:51
	Units/RL:			mg/kg	RL	mg/kg	RL			mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons				ND	16.0	ND	20.0			ND	15.8	ND	16.5
C12-C28 Diesel Range Hydrocarbons				ND	16.0	ND	20.0			ND	15.8	ND	16.5
C28-C35 Oil Range Hydrocarbons				ND	16.0	ND	20.0			ND	15.8	ND	16.5
Total TPH				ND	16.0	ND	20.0			ND	15.8	ND	16.5

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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Nicholas Straccione Project Manager



Project Id: (RP-1507)

Project Location: Lea County,NM

Contact: Joel Lowry

Certificate of Analysis Summary 451912

Southern Union Gas Services- Monahans, Monahans, TX



Project Name: Trunk "O" #1

Date Received in Lab: Mon Nov-05-12 10:04 am

Report Date: 15-NOV-12

Project Manager: Nicholas Straccione

								Project Man	iager:	Nicholas Straccione	T	
	Lab Id:	451912-0	013	451912-0	14	451912-01	15	451912-0	16			
Analysis Requested	Field Id:	TT-5 @	8'	TT-5 @ 13	3.5'	TT-6 @ 3	3'	TT-6 @ 6	6'			
Anaiysis Kequesieu	Depth:	8 ft		13.5 ft		3 ft		6 ft				
	Matrix:	SOIL		SOIL		SOIL		SOIL				
	Sampled:	Oct-30-12	11:40	Oct-30-12 1	2:10	Oct-30-12 1	3:40	Oct-30-12 1	3:50			
BTEX by EPA 8021B	Extracted:			Nov-15-12 0	08:15							
	Analyzed:			Nov-15-12 1	0:05							
	Units/RL:			mg/kg	RL							
Benzene				ND	0.00110							
Toluene					0.00219							
Ethylbenzene				ND	0.00110							
m_p-Xylenes					0.00219							
o-Xylene					0.00110							
Total Xylenes				ND	0.00110							
Total BTEX				ND	0.00110							
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-11-12	01:46	Nov-11-12 0	02:02	Nov-11-12 0	2:18	Nov-11-12 0	2:34			
SUB: TX104704215	Analyzed:	Nov-11-12	01:46	Nov-11-12 0	02:02	Nov-11-12 0	2:18	Nov-11-12 0	2:34			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Chloride		535	1.11	242	1.10	322	1.10	15.6	1.29			
Percent Moisture	Extracted:											
	Analyzed:	Nov-09-12	12:35	Nov-09-12 1	2:35	Nov-09-12 1	2:35	Nov-09-12 1	2:35			
	Units/RL:	%	RL	%	RL	%	RL	%	RL			
Percent Moisture		9.32	1.00	8.92	1.00	7.38	1.00	21.2	1.00			
TPH By SW8015 Mod	Extracted:			Nov-12-12 1	2:00	Nov-12-12 1	2:00	Nov-12-12 1	2:00			
	Analyzed:			Nov-13-12 0	04:19	Nov-13-12 1	1:39	Nov-13-12 0	5:13			
	Units/RL:			mg/kg	RL	mg/kg	RL	mg/kg	RL			
C6-C12 Gasoline Range Hydrocarbons				ND	16.5	ND	16.5	ND	19.3			
C12-C28 Diesel Range Hydrocarbons				ND	16.5	ND	16.5	ND	19.3			
C28-C35 Oil Range Hydrocarbons				ND	16.5	ND	16.5	ND	19.3			
Total TPH				ND	16.5	ND	16.5	ND	19.3			

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.

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Nicholas Straccione Project 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 quantiation 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

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
6017 Financial Drive, Norcross, GA 30071	(770) 449-8800	(770) 449-5477
3725 E. Atlanta Ave, Phoenix, AZ 85040	(602) 437-0330	

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^{*} Surrogate recovered outside laboratory control limit.



Project Name: Trunk "O" #1

Work Orders: 451912, **Project ID:** (RP-1507)

Lab Batch #: 900705 **Sample:** 451912-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg Date Analyzed: 11/12/12 19:24	SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes	[]	[-]	[D]	,,,				
1-Chlorooctane	86.9	100	87	70-135				
o-Terphenyl	43.6	50.0	87	70-135				

Lab Batch #: 900705 **Sample:** 451912-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg Date Analyzed: 11/12/12 19:54	SU	RROGATE RI	ECOVERY S	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	87.5	100	88	70-135	
o-Terphenyl	44.3	50.0	89	70-135	

Lab Batch #: 900705 Sample: 451912-004 / SMP Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 11/12/12 20:24	SU	RROGATE RI	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	88.0	99.5	88	70-135	
o-Terphenyl	44.8	49.8	90	70-135	

Units: mg/kg Date Analyzed: 11/12/12 20:53	SU	RROGATE RI	ECOVERY S	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	87.4	99.8	88	70-135	
o-Terphenyl	44.4	49.9	89	70-135	

Lab Batch #: 900743 Sample: 451912-006 / SMP Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 11/13/12 01:07	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	89.8	99.7	90	70-135	
o-Terphenyl	45.7	49.9	92	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Trunk "O" #1

Work Orders: 451912, **Project ID:** (RP-1507)

Units: mg/kg Date Analyzed: 11/13/12 02:30	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes	[]	[-]	[D]	,,,	
1-Chlorooctane	89.8	99.8	90	70-135	
o-Terphenyl	45.4	49.9	91	70-135	

Lab Batch #: 900743 **Sample:** 451912-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg Date Analyzed: 11/13/12 02:57	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	89.4	99.6	90	70-135	
o-Terphenyl	45.0	49.8	90	70-135	

Units: mg/kg Date Analyzed: 11/13/12 03:24	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	89.1	99.6	89	70-135	
o-Terphenyl	44.4	49.8	89	70-135	

Lab Batch #: 900743 **Sample:** 451912-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg Date Analyzed: 11/13/12 03:51	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	89.0	99.7	89	70-135	
o-Terphenyl	45.2	49.9	91	70-135	

Lab Batch #: 900743 **Sample:** 451912-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg Date Analyzed: 11/13/12 04:19	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	87.3	99.6	88	70-135	
o-Terphenyl	44.5	49.8	89	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Trunk "O" #1

Work Orders : 451912, **Project ID:** (RP-1507)

Lab Batch #: 900743 **Sample:** 451912-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg Date Analyzed: 11/13/12 05:13	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	89.4	99.6	90	70-135	
o-Terphenyl	45.0	49.8	90	70-135	

Lab Batch #: 900743 **Sample:** 451912-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg Date Analyzed: 11/13/12 11:39	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
•					
1-Chlorooctane	89.7	100	90	70-135	
o-Terphenyl	44.9	50.0	90	70-135	

Lab Batch #: 900976 Sample: 451912-011 / SMP Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 11/15/12 09:49	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0251	0.0300	84	80-120	
4-Bromofluorobenzene	0.0243	0.0300	81	80-120	

Units: mg/kg Date Analyzed: 11/15/12 10:05	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0244	0.0300	81	80-120	
4-Bromofluorobenzene	0.0247	0.0300	82	80-120	

Lab Batch #: 900705 Sample: 629844-1-BLK / BLK Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 11/12/12 10:31	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	83.0	100	83	70-135	
o-Terphenyl	41.8	50.1	83	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Trunk "O" #1

Work Orders: 451912, Project ID: (RP-1507)

Lab Batch #: 900743 Sample: 629866-1-BLK / BLK Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 11/13/12 00:40	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	88.6	99.9	89	70-135	
o-Terphenyl	44.7	50.0	89	70-135	

Lab Batch #: 900976 Sample: 630013-1-BLK / BLK Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 11/15/12 09:33	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0258	0.0300	86	80-120	
4-Bromofluorobenzene	0.0242	0.0300	81	80-120	

Lab Batch #: 900705 Sample: 629844-1-BKS / BKS Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 11/12/12 09:31	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	100	99.9	100	70-135	
o-Terphenyl	54.9	50.0	110	70-135	

Lab Batch #: 900743 Sample: 629866-1-BKS / BKS Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 11/12/12 23:44	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	90.9	99.8	91	70-135	
o-Terphenyl	51.4	49.9	103	70-135	

Lab Batch #: 900976 Sample: 630013-1-BKS / BKS Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 11/15/12 09:01	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0298	0.0300	99	80-120	
4-Bromofluorobenzene	0.0339	0.0300	113	80-120	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Trunk "O" #1

Work Orders : 451912, **Project ID:** (RP-1507)

Lab Batch #: 900705 Sample: 629844-1-BSD / BSD Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 11/12/12 10:00	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	97.3	99.9	97	70-135	
o-Terphenyl	52.5	50.0	105	70-135	

Lab Batch #: 900743 Sample: 629866-1-BSD / BSD Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 11/13/12 00:12	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	93.3	100	93	70-135	
o-Terphenyl	51.5	50.1	103	70-135	

Lab Batch #: 900976 Sample: 630013-1-BSD / BSD Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 11/15/12 09:17	17 SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0332	0.0300	111	80-120	
4-Bromofluorobenzene	0.0315	0.0300	105	80-120	

Lab Batch #: 900705 **Sample:** 451911-003 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg Date Analyzed: 11/12/12 21:21	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	90.9	100	91	70-135	
o-Terphenyl	51.6	50.1	103	70-135	

Units: mg/kg Date Analyzed: 11/13/12 01:35	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	93.9	100	94	70-135	
o-Terphenyl	52.0	50.1	104	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Trunk "O" #1

Work Orders: 451912, Project ID: (RP-1507)

Units: mg/kg Date Analyzed: 11/15/12 12:34	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0318	0.0300	106	80-120	
4-Bromofluorobenzene	0.0336	0.0300	112	80-120	

Units: mg/kg Date Analyzed: 11/12/12 21:50	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	89.7	100	90	70-135	
o-Terphenyl	50.7	50.1	101	70-135	

Units: mg/kg Date Analyzed: 11/13/12 02:02	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	93.2	100	93	70-135	
o-Terphenyl	52.3	50.1	104	70-135	

Units: mg/kg Date Analyzed: 11/15/12 12:51	SU	RROGATE RI	ECOVERY S	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0311	0.0300	104	80-120	
4-Bromofluorobenzene	0.0333	0.0300	111	80-120	

Surrogate Recovery [D] = 100 * A / B

^{*} Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



BS / BSD Recoveries



Project Name: Trunk "O" #1

Work Order #: 451912 Analyst: KEB

Date Prepared: 11/15/2012

Batch #: 1

Project ID: (RP-1507)
Date Analyzed: 11/15/2012

Lab Batch ID: 900976

Sample: 630013-1-BKS

Matrix: Solid

Units: mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY
--

BTEX by EPA 8021B	Blank Sample Result	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]	[C]	[D]	[E]	Result [F]	[G]	70	/0K	70KFD	
Benzene	< 0.00100	0.100	0.105	105	0.100	0.106	106	1	70-130	35	
Toluene	< 0.00200	0.100	0.110	110	0.100	0.113	113	3	70-130	35	
Ethylbenzene	< 0.00100	0.100	0.106	106	0.100	0.110	110	4	71-129	35	
m_p-Xylenes	< 0.00200	0.200	0.224	112	0.200	0.234	117	4	70-135	35	
o-Xylene	< 0.00100	0.100	0.108	108	0.100	0.114	114	5	71-133	35	

Analyst: TTE Date Prepared: 11/10/2012 Date Analyzed: 11/10/2012

 Lab Batch ID: 900611
 Sample: 629781-1-BKS
 Batch #: 1
 Matrix: Solid

Units: mg/kg		BLAN	K /BLANK S	SPIKE / E	BLANK S	PIKE DUPL	ICATE 1	RECOVE	ERY STUD	'Y	
Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride	<1.00	100	105	105	100	104	104	1	80-120	20	

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



BS / BSD Recoveries



Project Name: Trunk "O" #1

Work Order #: 451912

Date Prepared: 11/12/2012 **Batch #:** 1

Analyst: KEB Lab Batch ID: 900705

Sample: 629844-1-BKS

2/2012

Matrix: Solid

Project ID: (RP-1507) **Date Analyzed:** 11/12/2012

Units: mg/kg DEANK STIKE / DEANK STIKE DOTEICATE RECOVERT STODT	Units: mg/kg	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY
---	--------------	---

TPH By SW8015 Mod 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	<15.0	999	948	95	999	915	92	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	999	946	95	999	912	91	4	70-135	35	

Analyst: KEB Date Prepared: 11/12/2012 Date Analyzed: 11/12/2012

Lab Batch ID: 900743 Sample: 629866-1-BKS Batch #: 1 Matrix: Solid

Units: mg/kg		BLAN	K/BLANK S	SPIKE / E	BLANK S	SPIKE DUPL	ICATE 1	RECOVE	ERY STUD	· Y	
TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
C6-C12 Gasoline Range Hydrocarbons	<15.0	998	1000	100	1000	1000	100	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	998	988	99	1000	991	99	0	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 "O" #1



Work Order #: 451912

Lab Batch #: 900611 **Project ID:** (RP-1507)

 Date Analyzed:
 11/10/2012
 Date Prepared:
 11/10/2012
 Analyst:
 TTE

 QC- Sample ID:
 451783-001 S
 Batch #:
 1
 Matrix:
 Soil

Reporting Units: mg/kg MATRIX / MATRIX SPIKE RECOVERY STUDY **Parent** Spiked Sample Control **Inorganic Anions by EPA 300** Sample Spike Result %R Limits Flag Result Added %R [C] [D] [A] [B] **Analytes**

< 1.04

104

110

106

80-120

Lab Batch #: 900611

Chloride

 Date Analyzed:
 11/11/2012
 Date Prepared:
 11/11/2012
 Analyst:
 TTE

 QC- Sample ID:
 451912-016 S
 Batch #:
 1
 Matrix:
 Soil

Reporting Units: mg/kg MATRIX / MATRIX SPIKE RECOVERY STUDY Parent Spiked Sample **Inorganic Anions by EPA 300** Control Sample Spike Result %R Limits Flag Result Added [C] [D] %R [A] [B] **Analytes** Chloride 15.6 129 148 103 80-120

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

BRL - Below Reporting Limit



Reporting Units: mg/kg

Form 3 - MS / MSD Recoveries

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY



35

70-135

Project Name: Trunk "O" #1

Work Order #: 451912 Project ID: (RP-1507)

Lab Batch ID: 900976 **QC- Sample ID:** 451912-011 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/15/2012 Date Prepared: 11/15/2012 KEB

F		171	AINIASIIN	L/WIAI.	KIA SI I	KE DUI LICA	IE KEC	OVERT	31001		
BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]	[C]	[D]	[E]	Kesuit [F]	[G]	70	/0K	70KI D	
Benzene	< 0.00105	0.105	0.105	100	0.106	0.100	94	5	70-130	35	
Toluene	< 0.00210	0.105	0.108	103	0.106	0.109	103	1	70-130	35	
Ethylbenzene	< 0.00105	0.105	0.105	100	0.106	0.101	95	4	71-129	35	
m_p-Xylenes	< 0.00210	0.210	0.225	107	0.212	0.216	102	4	70-135	35	
o-Xylene	< 0.00105	0.105	0.112	107	0.106	0.106	100	6	71-133	35	

Lab Batch ID: 900705 **QC- Sample ID:** 451911-003 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/12/2012 Date Prepared: 11/12/2012 KEB

Reporting Units: mg/kg MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY **Parent** Spiked Sample Spiked **Duplicate** Spiked Control Control TPH By SW8015 Mod Sample Spike Result Sample Spike Spiked Sample Dup. **RPD** Limits Limits Flag Result %R Added Result [F] %R %R %RPD Added [C] % **Analytes** [A] [B] [D] [E][G] C6-C12 Gasoline Range Hydrocarbons <16.3 1090 1070 98 1090 1060 97 70-135 35

1080

Lab Batch ID: 900743 **QC- Sample ID:** 451912-006 S **Batch #:** 1 **Matrix:** Soil

1090

<16.3

Date Analyzed: 11/13/2012 Date Prepared: 11/12/2012 Analyst: KEB

Reporting Units: mg/kg		M	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
TPH By SW8015 Mod	Parent Sample Result	Spike	Spiked Sample Result	Sample		Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag
Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	<17.8	1190	1170	98	1190	1210	102	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<17.8	1190	1150	97	1190	1200	101	4	70-135	35	

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

C12-C28 Diesel Range Hydrocarbons

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

99

1090

1070

98



Sample Duplicate Recovery



Project Name: Trunk "O" #1

Work Order #: 451912

Lab Batch #: 900569 **Project ID:** (RP-1507)

 Date Analyzed:
 11/09/2012 12:05
 Date Prepared:
 11/09/2012
 Analyst: WRU

 QC- Sample ID:
 451911-005 D
 Batch #:
 1
 Matrix:
 Soil

Reporting Units: %	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Percent Moisture	8.51	9.46	11	20	

Lab Batch #: 900570

 Date Analyzed:
 11/09/2012 12:35
 Date Prepared:
 11/09/2012
 Analyst: WRU

 QC- Sample ID:
 451912-006 D
 Batch #:
 1
 Matrix: Soil

Reporting Units: %	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte		[D]			
Percent Moisture	14.9	14.6	2	20	

Xenco Laboratories

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765 Phone: 432-563-1800 Fax: 432-563-1713

	Project Manager:	Joel Lowry	11 11			· · · · ·			: : :					•	:	Pr	ojec	t Na	me:	Tru	nk	<u>"O"</u>	#1			:::::			
	Company Name	Basin Environmental Se	rvice Te	echnol	ogies, LLC												P	roiec	:t #:	(RF	'-1 5	07)							
	Company Address:	P.O. Box 301													:	• • .			-oc:	:			NM			:			
	City/State/Zip:	Lovington, NM 88260																P	O #:	Bill	Sou	ther	i Uni	ion G	ias			<u>.</u>	
	Telephone No:	(575)396-2378				Fax No:		(575	i) 30	6-14	29				:	- Repoi	t Fo	rmai		X	Stan	dard		Г	TRRI	P.	□ NE	PDES	
	Sampler Signature:		ah.			e-mail:	-		•	:		Poso	Slade	 e@SU	G col			ıııa	. .		Otan	iuaiu		. ப	HAN			DLC	•
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									Pre	serva	ation	# #	OF CC	ontair	iers	Standard Sta	1	ē		(Ajı	:.	Metals: As Ag Ba Cd Cr Pb Hg Se		BTEX 8021B/5030 or BTEX 8260				Jule) 24, 48,	\ ¥
LAB# (lab use only)			Beginning Depth	.	led led	<u>9</u>		ainers								ام يو	8015M	¥	J, Na, K)	SO4, Alkalinity)	္ဌ	a Cd C	3 -	330 or E				RUSH TAT (Pre-Schedule)	Standard TAT 4 DAY
lab u			ing [Dep	Samp	Samp	ered	of Containers							Specify)	orinking Wat Groundwate on-Potable	418.1	TX 1005	Ca, Mg	3, 804	P/G	s Ag B	files	21B/5	DES			AT (P	ra Ta
48 #	FIFI	D CODE	eginr	Ending Depth	Date Sampled	Time Sampled	Field Filtered	#	<u>e</u>	NO.	<u> </u>	H2504	Na.S.O.	None	Other (DW=Drinking GW=Ground NP=Non-Potal	TPH: 4	TPH:	Cations (Ca, Mg,	Anions (CI,	SAR / ESP / CEC	Metals: A	voratures Semivolatiles	TEX 80	CHLORIDES			USH	tanda
Ō۱		-1 @ 3'	<u> </u>	3'	10/30/2012	0945	iΪ		X	+	+	-	- -	2		5 o ≥	E X	+	Ö	₹	S)	Σ :	<u> </u>	 ```	X	+	十	╬	X
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03	тт.	-1 @ 8'		8'	10/30/2012	955		1	х							Soil	x								х				х
OU	TT.	-2 @ 3'		3'	10/30/2012	1005		1	х							Soil	x								Х				х
05	тт-	-2 @ 6'		6'	10/30/2012	1010		1	x							Soil	x		Ш						x			1	x
0(0		-3 @ 3'		3'	10/30/2012	1025		1	x							Soil	x						\perp	\perp	x				X
01	тт-	3 @ 6'		6'	10/30/2012	1030		1	x							Soil					_		╧	1	X		_	┸	x
<u>09</u>		3 @ 8'		8'	10/30/2012	1035		1	x		:			_	1	Soil	X						\perp		x			1	Х
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Xenco Laboratories

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765 Phone: 432-563-1800 Fax: 432-563-1713

: :	Project Manager:	Joel Lowry				<u> </u>								:		Pr	ojec	t Na	me: _	Trur	1k "	'O" #	<i>‡</i> 1				<u> </u>			:
	Company Name	Basin Environmental Ser	vice T	echnol	ogies, LLC								Project #: <u>(</u> RP-1507)																	
	Company Address:	P.O. Box 301										.:					^o roie	ect L	oc: l	Lea (Cou	nty, N	ım.							:
	City/State/Zip:	Lovington, NM 88260			:				i			:			:				_					on Ga						
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1 1	Telephone No: Sampler Signature:	(575)396-2378	A			Fax No				96-14	: :	<u> </u>				Repor	t Fo	rmat	: L	X s	tano	dard		: <u> </u>	TRRI	P	Ц.	NPD	ES	
	Sampler Signature.	TROY Na	<u>ku</u>	<u>ر</u>		e-mai	l:	pm@)basi	nenv.	com; F	Rose.	Slade	@SU	G.cor	n						Analy	vze i	or:					_	
lab use o	11C101	2															E			TCL TOTA	P:	, that	E	X		Ī			72 hrs	
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B# (lab use only)			Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers		O³	HCI	,	Na ₂ S ₂ O ₃	1e	Other (Specify)	DW=Drinking Water SL=Sludg GW = Groundwater S=Soil/Soil NP=Non-Potable Specify Othe	418.1 8015M	TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	ns (Cl, SO4, Alkalinity)	MATERIAL AS AS DO CALCE DE LA	Wetals, As Ag Ba Cu Ci Pb ng Se	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	CHLORIDES				~	Standard TAT 4 DAY
- KAB		D CODE	Be B				Fie	<u> </u>		HNO	모	2	, Z	None	ਰੋ		Ħ	TPH.	Cati	Anions	N S	Vols	Sen		_		$\perp \!\!\! \perp$	H	2	Sta
<u>リ</u> リン		-4 @ 8'		8'	10/30/2012	1100	-	1	X	_	+	+		+-		Soil	X			+	+	+	+	\vdash	X	+	┾┦	╁		X
13		-5 @ 3' -5 @ 8'		3' 8'	10/30/2012 10/30/2012	1120 1140	+	1	X X	+		+	+	-		Soil	X	-					+	H	X X	-	+	H		X
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15		-6 @ 3'		3'	10/30/2012	1340	+	1	x			+				Soil	Î				+		+	H	X	+	H	H		X
110		-6 @ 6'		6'	10/30/2012	1350	1	1	_		\dagger	\top	+	T		Soil	$\frac{1}{x}$				1		十	\Box	x				_	X
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Relinquish	ed by: *	Date	Ti	me	Received by ELC	эт: <u>X УQ</u>	80	ŊΥ	7 4	1	<u>\</u>		AF		Pa C	7/2/1	Tim) (• 24	Tem	pera	ture	Upoi	ı Re	ceipt:		l	0,0	2ُ	·C	



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Date/ Time Received: 11/05/2012 10:04:00 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

#2 *Shipping container #3 *Samples received of #4 *Custody Seals intac #5 Custody Seals intac #6 *Custody Seals Sign #7 *Chain of Custody p #8 Sample instructions #9 Any missing/extra so #10 Chain of Custody s	in good condition? on ice? ot on shipping container/ cooler? t on sample bottles? ned and dated? resent? complete on Chain of Custody?	9.7 Yes
#5 Custody Seals intac #6 *Custody Seals Sign #7 *Chain of Custody p #8 Sample instructions #9 Any missing/extra si #10 Chain of Custody s	in good condition? on ice? ot on shipping container/ cooler? t on sample bottles? ned and dated? resent? complete on Chain of Custody?	Yes Yes Yes Yes Yes Yes
#3 *Samples received of #4 *Custody Seals inta #5 Custody Seals inta #6 *Custody Seals Sign #7 *Chain of Custody p #8 Sample instructions #9 Any missing/extra se #10 Chain of Custody se	on ice? ct on shipping container/ cooler? t on sample bottles? ned and dated? resent? complete on Chain of Custody?	Yes Yes Yes Yes Yes
#4 *Custody Seals inta #5 Custody Seals intac #6 *Custody Seals Sign #7 *Chain of Custody p #8 Sample instructions #9 Any missing/extra sa #10 Chain of Custody s	ct on shipping container/ cooler? t on sample bottles? ned and dated? resent? complete on Chain of Custody?	Yes Yes Yes Yes
#5 Custody Seals intac #6 *Custody Seals Sign #7 *Chain of Custody p #8 Sample instructions #9 Any missing/extra se #10 Chain of Custody s	t on sample bottles? ned and dated? resent? complete on Chain of Custody?	Yes Yes Yes
#6 *Custody Seals Sign #7 *Chain of Custody p #8 Sample instructions #9 Any missing/extra sa #10 Chain of Custody s	ned and dated? resent? complete on Chain of Custody?	Yes Yes
#7 *Chain of Custody p #8 Sample instructions #9 Any missing/extra sa #10 Chain of Custody s	resent? complete on Chain of Custody?	Yes
#8 Sample instructions #9 Any missing/extra sa #10 Chain of Custody s	complete on Chain of Custody?	
#9 Any missing/extra sa #10 Chain of Custody s		Yes
#10 Chain of Custody s	amples?	
		No
#11 Chain of Custody a	signed when relinquished/ received?	Yes
C.I.a C. Cactea, c	agrees with sample label(s)?	Yes
#12 Container label(s)	legible and intact?	Yes
#13 Sample matrix/ pro	perties agree with Chain of Custody?	Yes
#14 Samples in proper	container/ bottle?	Yes
#15 Samples properly	Yes	
#16 Sample container(Yes	
#17 Sufficient sample a	amount for indicated test(s)?	Yes
#18 All samples receive	ed within hold time?	Yes
#19 Subcontract of san	nple(s)?	Yes
#20 VOC samples have	e zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples	preserved with HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples	preserved with NaAsO2+NaOH, ZnAc+NaOH?	Yes
#22 >10 for all samples		Yes
Analyst:	PH Device/Lot#:	

Date:

TRUNK "0", 30" LINE 1/17 #12 7-27-07

3-Londs To CELL #2

OCOTILLO ENVIRONMENTAL, LLC.

HOURS WORKED	6	_	PER	RHOURS_		
TRUCKER	Combs	/ 2 YD.	DUMP TRUC	Kuoz	_DATE /- .	 2 <i>フ-c</i> フ
ADDRESS						
COMPANY 50	, , , , , , , , , , , , , , , , , , ,					
PH OWNER TO SUC						
ADDRESS		DATE	PAID		CK. NO	
XXXX	74			26 27 28 29 30	RATE LOADS	S TOTAL
HOURS WORKED	5-Logo OCOTIL	lo environ	4. #2 MENTAL. L		.	
TRUCKER						
ADDRESS						
COMPANY 5,0	1/5					
PIT OWNER TO SUES						
ADDRESS		DATE I	PAID	(IK. NO	
1 2 3 4 5 6 7 X X X X X	6 9 10 11 12 13 1	4 15 16 17 18 19 2	0 21 22 23 24 25	26 27 28 29 30	RATE LOADS	TOTAL

TRUNK"0" 30" LINE 51TE #1 7-26-07

3-LOADS TO CELL#2

OCOTILLO ENVIRONMENTAL, LLC.

HOURS WORKED 3	â S PER HOUR S
TRUCKER J. Ruiz	124D. DUMP TRUCK 1165 DATE 7-26-07
ADDRESS	
COMPANY 5.41.6.5.	
PH OWNER TO SUG:5 LAND FARM	M TOTAL YDS. 36 RATE TOTAL
ADDRESS	DATE PAID CK_NO
52	15:16:17:18:19:20:21:22:23:24:25:26:27:28:29:30:RATE LOADS TOTAL Sile Sile Sile Sile Sile Sile Sile Sile
	g S PER HOUR S
TRUCKER J. Ruiz	12 YD. DUMP TRUCK 1105 DATE 7-27-07
ADDRESS	
COMPANY SUZ	
	TOTAL YDS. 60 RATE TOTAL
	DATE PAID CK. NO
	15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 RATE LOADS TOTAL

TRINK "O", 30" LINE 7-31-07

5-Lands To CELL #2

OCOTILLO ENVIRONMENTAL, LLC.

HOURS WORKED 10	@ S PER HOUR S
TRUCKER L. Comps	
ADDRESS	
COMPANY SU.G.S	
PH OWNER To SUGS LAND	FRAM TOTAL YDS. 60 RATE TOTAL
ADDRESS	DATE PAID CK. NO.
1 2 3 4 5 6 7 8 9 10 11	12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 RATE LOADS TOTAL
Y X X X	

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

State of New Mexico 123456 Energy Minerals and Matural Resources

Oil Conservation Division 2007 1220 South St. Francis Drived Santa Fe, NM 8750 Hobbs

Form C-141 Revised October 10, 2003

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

1220 S. St. Flan	icis Dr., Sant	1 FE, INIVI 8/303	,	Sa	anta F	e, NM 875	05Hobbs	~~/	•		Side of form			
Trunk "o" t	+ 1		Rele	ease Notific			rrective A	ction	1 /					
						OPERA	<u> </u>		12	al Report)	Final Report			
Name of Co	mnany	South	ern Unio	n Gas Services,	I td	Contact	6591 81 17	1	<u> </u>	ит теропе	Tony Savoie			
Address	лпрану		226 Jal, N.M. 8		Telephone N	Jo		- Andrews		505-395-2116				
Facility Na			County Field I		Facility Typ				Nati	ural Gas Gathering				
											ardi Gus Gutilering			
Surface Ow	ner: DAS	CO Land and	Co. Mineral C	Owner:	Federal			Lease N	10.					
				LOCA	ATIO	N OF REI	LEASE							
Unit Letter L	Section 22	Township 22S	Range 36E	Feet from the	North	/South Line	Feet from the	East/\	West Line	County	Lea			
<u> </u>						Longitud	e W103 15.588	8						
Type of Rele	ase : Crude	Oil Produce	d water ar	nd Natural Gas	CICE		Release: 60 Bbls	c	Volume F	Recovered	40 Bbls crude			
Type of Refe	ase . Crude	On, I rounced	i waici, ali	.u Ivaturai Gas			215 MCF Nat. G			roduced wat				
Source of Re	lease: 30"	Natural Gas P	ipeline			Date and H	Iour of Occurrenc			Hour of Discovery 7/21/07				
Was Immedi	ate Notice (Yes [No Not R	equired	If YES, To Whom? NMOCD on call representative								
By Whom? 7	Ony Savoie		Date and H	lour: 7/21/07 7:15	5 p.m.									
Was a Water	course Read	ched?		If YES, Vo	lume Impacting t	the Wat	ercourse.							
A 30" Natural	ral Gas gat gas. Crews	thering line o s began shutt	developed ting the li	Action Taken.* I a leak due to e ine in at 7:45 pn the leak was te	n, vacu	um trucks w	ere dispatched t	o the le	eak sites to		up and leak fluid ing up fluid. A			
					1	J 1		Ι	Γ					
road was imp	acted by th	e release. Mos	st of the he	cen. Approximate eavily saturated so guidelines for the	oil was	pushed up by	a backhoe toward				et of caliche lease			
regulations a public health should their or or the environ	Il operators or the enviroperations homent. In a	are required to ronment. The nave failed to a	o report ar acceptance adequately OCD accep	e is true and comp nd/or file certain r ce of a C-141 report investigate and r otance of a C-141	elease rort by the emedia	notifications and the NMOCD mate contamination and the contaminati	nd perform correct arked as "Final Roon that pose a three	ctive act eport" of eat to gr	ions for rele loes not reli round water	eases which ieve the ope r, surface wa	may endanger rator of liability ater, human health			
							OIL CONS	SERV	ATION	DIVISIO	<u>)N</u>			
Signature:	Tony Sa	voie						_						
Printed Name			9 V	John A. Savoie		Approved by	District Supervise	er:	QI.	سعور				
Title:	0			diation Superviso	r	Approval Dat	e: B·Z·07	,	Expiration 1	Date: 10	1.787			
E-mail Addre	ess:		tony.savoi	e@sug.com		Conditions of	`Approval:			Attached				

Date: 7/31/07 Phone: 505-395-2116

* Attach Additional Sheets If Necessary

DOCUMENTATION BY

RPHS07

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

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side of form

Form C-141

Revised October 10, 2003

Release Notification and Corrective Action

					OPEI	RATOR		Initial Report				
Name of Co		South		Contact			Crystal Callaway					
Address		801 S. Loop	756	Telephone	No.	(817) 302-9407						
Facility Nar	ne: Trunk	"O" #1 (RI	P-1507)			Facility Ty	ре		20	Nati	ıral Gas	Gathering
Surface Owner DASCO Land and Cattle Co. Mineral Owner: Federal Lease No.												
LOCATION OF RELEASE												
Unit Letter L	Section 22	Township 22S	Range 36E									
	Latitude N32 22.460 Longitude W103 15.588											
Type of Release Crude Oil, Produced water, and Natural Gas Volume of Release 60 Bbls Volume Recovered 40 Bbls crude												
				d Natural Gas		The state of the s	Release 60 Bbls 215 MCF Nat. G		Oil and p	Recovered roduced war	er	
Source of Re		,	ipeline			not known	lour of Occurrence	e	Date and Time: 7:0	Hour of Dis 0 p.m.	covery	7/21/07
Was Immedia	ite Notice C		Yes [No Not Re	equired	If YES, To NMOCD o	Whom? n call representat	ive				
By Whom?			**		N N 97315		lour: 7/21/07 7:15				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Was a Watercourse Reached? ☐ Yes ☑ No If YES, Volume Impacting the Watercourse.												
If a Watercou	rse was Imp	pacted, Descri	be Fully.*		-							
Describe Cause of Problem and Remedial Action Taken: A 30" Natural Gas gathering line developed a leak due to excess fluid delivered by a producer caused the line to pressure up and leak fluid and natural gas. Crews began shutting the line in at 7:45 pm, vacuum trucks were dispatched to the leak sites to start picking up fluid. A total of 40 bbls of fluid was recovered before the leak was temporarily repaired with a 30" leak repair clamp.												
	Describe Area Affected and Cleanup Action Taken. Approximately 2,400 square feet of pasture land and approximately 900 square feet of caliche lease road was impacted by the release. Most of the heavily saturated soil was pushed up by a backhoe toward the point of release.											
longer affiliat 2012, the site standards rem	Between July 26, and August 10, 2007, remediation activities were conducted at the Trunk "O" #1 Release Site by an environmental contractor that is no longer affiliated with the site. Transporter's manifests indicate at least 252 yd ³ of impacted material was transported to SUG's Landfarm. On October 30, 2012, the site was revisited in an effort to determine if soil exhibiting benzene, BTEX, TPH and chloride concentrations above NMOCD regulatory standards remained in-situ and collect confirmation soil samples. Laboratory analytical reports from the confirmation soil samples suggested previous remediation activities met the requirements of the NMOCD.											
			ronmenta	al Services Tech	nologie	s Remediatio	on Summary and	d Site (Closure Re	equest for	details o	of remedial
I hereby certi- regulations al public health should their o or the environ	activities and the site investigation. 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: /	My	tel/a	ller	rez		Approved by	OIL CONS		ATION	DIVISIO	<u>)N</u>	
Printed Name				1: .			678 	94				
Title: Senior		700				Approval Date		E	Expiration I	Date:		
E-mail Addres	200				\dashv	Conditions of	Approval:					
Date: 10/27/14	4		Phone: (8	317) 302-9407	- 1							