

REMEDIATION SUMMARY & SOIL CLOSURE REQUEST

Property:

REGENCY FIELD SERVICES LLC.

L-5 TO MF

Historical Release Site
Lea County, New Mexico
Unit Letter "O", Section 15, Township 21 South, Range 37 East
Latitude 32.472081, Longitude -103.151236
NMOCD Reference # 1RP-2185

October 2014 Apex Project No. 7030714G023

Prepared for:

Regency Field Services LLC

301 Commerce Street, Suite 700 Fort Worth, TX 76109

Attn: Ms. Crystal Callaway, BSN, RN, CHMM

Prepared by:

Thomas Franklin Project Manager Tim Reed Senior Technical Review

Tim Keek



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Initial and Final C-141



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Apex Project No. 7030714G023

1.0 INTRODUCTION

1.1 Site Description & Background

Apex TITAN, Inc. (Apex) has prepared this Closure Request for the Regency Field Services, LLC (Regency) L-5 Pipeline as the result of a crude oil release (referred to hereinafter as the "Site" or "subject Site"). Remedial actions were reportedly conducted in accordance with New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (NMOCD) rules (NMAC 19.15.29 Release Notification) and the NMOCD Guidelines for Remediation of Leaks, Spills and Releases as guidance.

The L-5 to MF is located off County Road (CR) 38, also referred to as Jones City Road, north of Eunice, New Mexico (GPS 32.472081, -103.151236). On January 7, 2009, a leak of greater than fifty (>50) million cubic feet (Mcf) of natural gas and greater than five (>5) barrels of oil was discovered. According to documentation, the release was reported by the operator at the time, Southern Union Gas, to the New Mexico Oil Conservation Division (NMOCD) on March 3, 2009. The NMOCD C-141 form indicated the release affected approximately one thousand, three hundred and forty square feet (1,340 ft²). Regency Field Services, LLC. has subsequently acquired this pipeline.

The previous remedial activities were reportedly conducted by an unknown environmental consultant and by Basin Environmental Service Technologies, LLC. (Basin). This Closure Request is solely based upon the interpretation of the data provided.

1.2 Project Objective

The objective of the Closure Report is to present documentation of the activities that were performed to date and to request closure of the site.

1.3 Standard of Care

Apex's services will be performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period.

Apex makes no warranties, express or implied, as to the services performed hereunder. Additionally, Apex does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services will be performed in accordance with the scope of work agreed with the client.

1.4 Reliance

This report has been prepared for the exclusive use of Regency, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Regency and Apex. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Apex's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Apex's liability to the client.

2.0 SITE RANKING & PROPOSED REMEDIAL ACTION GOALS

The Site is subject to regulatory oversight by the NMOCD. To address activities related to releases, the NMOCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the NMOCD rules, specifically NMAC 19.15.29 *Release Notification*. These documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

In accordance with the NMOCD's *Guidelines for Remediation of Leaks, Spills and Releases*, Apex utilized the general site characteristics to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the table below:

Rankin	g Criteria		Ranking Score
	<50 feet	20	
Depth to Groundwater	50 to 99 feet	10	20
	>100 feet	0	
Wellhead Protection Area,	Yes	20	
<1,000 feet from a water source, or; <200 feet from private domestic water source.	No	0	0
Distance to Surface	<200 feet	20	
Water Body	200 to 1,000 feet	10	0
vvaler Body	>1,000 feet	0	
Total Rai	nking Score		20

Based on Apex's evaluation of the scoring criteria, the Site would have a Total Ranking Score of 20. This ranking is based on the following:

• The depth to the initial groundwater-bearing zone is <50 feet at the Site.

- The impacted area is greater than 200 feet from a private domestic water source.
- Distance to the nearest surface water body is greater than 1,000 ft.

Based on a Total Ranking Score of 20, cleanup goals for soils remaining in place include: 10 milligrams per kilogram (mg/Kg) for benzene, 50 mg/Kg for total benzene, toluene, ethlybenzene and xylene (BTEX), 100 mg/Kg for Total Petroleum Hydrocarbons (TPH).

3.0 INITIAL RESPONSE, EXCAVATION & TREATMENT ACTIVITIES

3.1 Initial Response

According to the initial C-141, Southern Union Gas responded to the leaking pipeline. The leak area was excavated and three (3) clamps were installed on the pipeline, no free standing fluids were discovered at that time. There were two areas of impact noted, one area measured approximately ten (10) feet by eighteen (18) feet and the second area measured approximately forty (40) feet by twenty (20) feet. The impacted soils were identified through surface staining in an area approximately one thousand, three hundred and forty square feet (1,340 ft²) as shown on Figure 3, Appendix A. The supplied figure was created by Basin Environmental Services.

3.2 Excavation

Reportedly, in 2009, approximately 2,904 cubic yards (yd³) of impacted soil was excavated from the release site by Basin and transported to the Southern Union Landfarm (Permit # NM-02-0019) for treatment. Copies of the Basin prepared Manifests are included in Appendix D. The final dimensions of the excavation were approximately 120 feet in width, 80 feet in length and 26 feet in depth near the center. Further excavation was determined to be unsafe and impracticable given the risks associated with the depth of the excavation and the proximity of the floor of the excavation to groundwater.

3.3 Excavation Confirmation Soil Sampling Program

Based on the information provided, confirmation soil samples of the excavation were collected by Basin and analyzed for BTEX and TPH. The only exceedance of the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases* (Section VI A. Contaminated Soils, a) were two (2) TPH results of 158 milligrams per kilogram (mg/Kg) and 1,230 mg/kg, in unknown locations.

3.4 Groundwater Investigation and Sampling Program

Subsequently, Basin supervised the installation of one monitor well (MW-1) in February, 2013, reportedly in an effort to gain closure on the soil portion of the release site. During the installation of the monitor well, soil samples were collected for BTEX, TPH and chloride. Chloride concentrations above 250 mg/kg were documented at five (5) and ten (10) feet below ground surface (bgs) at 392 mg/kg and 500 mg/kg, respectively, but declined to <250 mg/Kg with depth.

On February 28, 2013, May 9, 2013, September 3, 2013, January 9, 2014 and February 28, 2014, the monitor well was sampled and groundwater samples were submitted to

Xenco Laboratories, Inc., of Odessa, Texas, for analysis of BTEX, total dissolved solids (TDS) and chloride concentrations. Laboratory analytical results indicated BTEX concentrations were less than the laboratory method detection limit (MDL) for each of the submitted groundwater samples, with the exception of benzene at 0.0258 mg/L for the January 9, 2014 sampling event. All of the other sampling events including the February 28, 2014, sampling did not show benzene concentrations above the laboratory MDL. Chloride concentrations ranged from 102 mg/L for the sample collected in February 2013, to 123 mg/L for the sample collected in May 2013.

Currently, there is one (1) groundwater monitoring well (MW-1) on-Site.

CHEMCIALS OF CONCERN (COCS)

Groundwater samples collected from the monitoring well have historically been analyzed for chloride and BTEX by EPA Methods E300 and SW846-8021B, respectively. To date no phase-separated hydrocarbons (PSH) have been identified in the monitoring well and none of the results have shown chloride impact to groundwater. With the exception of one sampling event on January 9, 2014, no BTEX concentrations have exceeded the New Mexico Water Quality Control Commission (WQCC) standards. The WQCC standard for BTEX and chloride is benzene at 0.01 mg/L, toluene at 0.75 mg/L, ethylbenzene at 0.75 mg/L, total xylenes at 0.62 mg/L and chloride at 250 mg/L, respectively. Copies of tables provided by Basin, inclusive of the previously reported sampling is included in Appendix B.

4.0 LABORATORY ANALYTICAL METHODS

The samples were analyzed for TPH GRO/DRO utilizing EPA method SW-846 8015, BTEX using EPA method SW-846 8021B and chlorides utilizing EPA method SW-846 300.1. Copies of the laboratory analysis provided by Basin are provided in Appendix C.

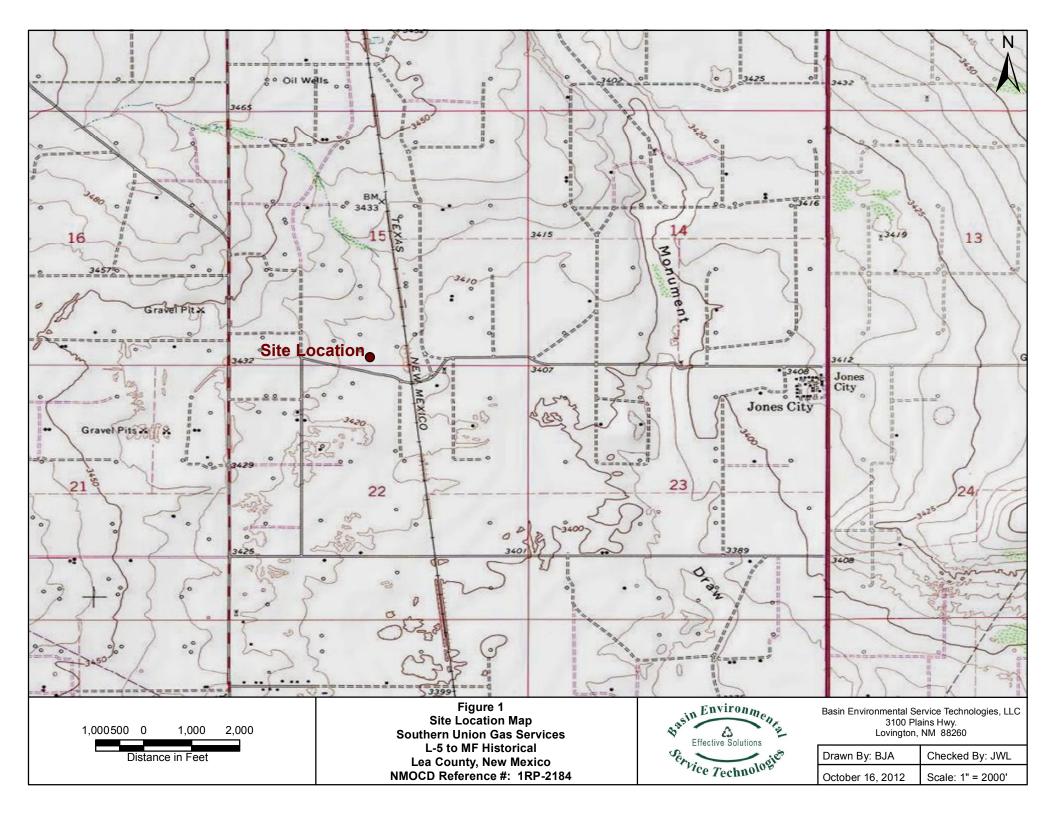
5.0 SITE RESTORATION / CLOSURE REQUEST

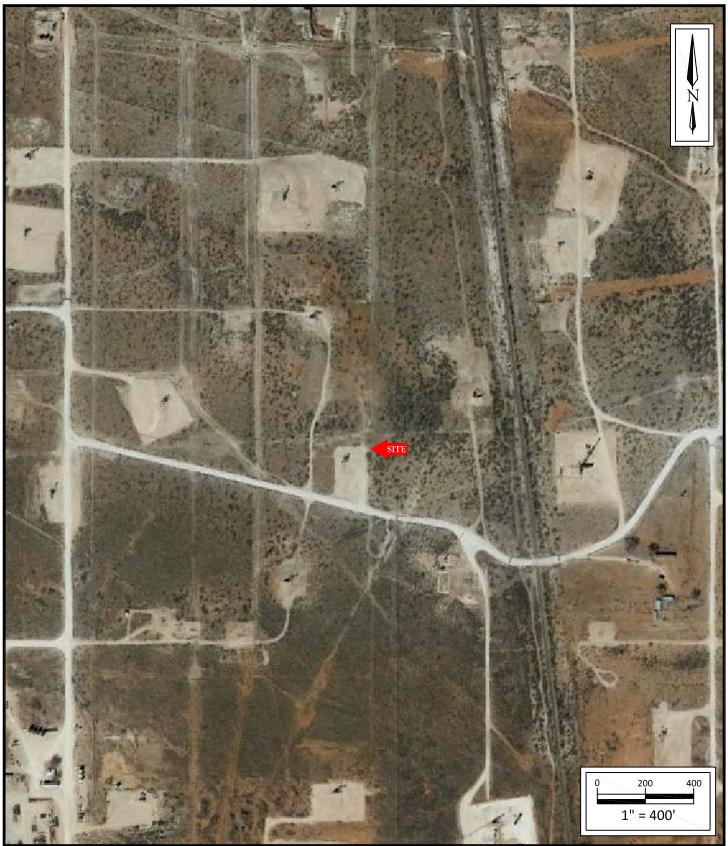
Based upon the data provided, the site was subsequently backfilled and restored. MW-1 was installed to confirm that there was not a chloride or BTEX impact to the groundwater at this site. Laboratory analytical results for five (5) sampling events confirmed that there was not a chloride impact to groundwater. The laboratory analytical results indicated that BTEX concentrations were less than the laboratory MDL for each of the submitted groundwater samples, with the exception of benzene at 0.0258 mg/L for the January 9, 2014 sampling event. Based upon the data presented and the work performed at this site, Regency respectfully requests closure of this site. Upon approval from the NMOCD, the monitor well will be properly plugged by a licensed water well driller. Copies of the Initial and Final C-141 are provided in Appendix E.



APPENDIX A

Figures



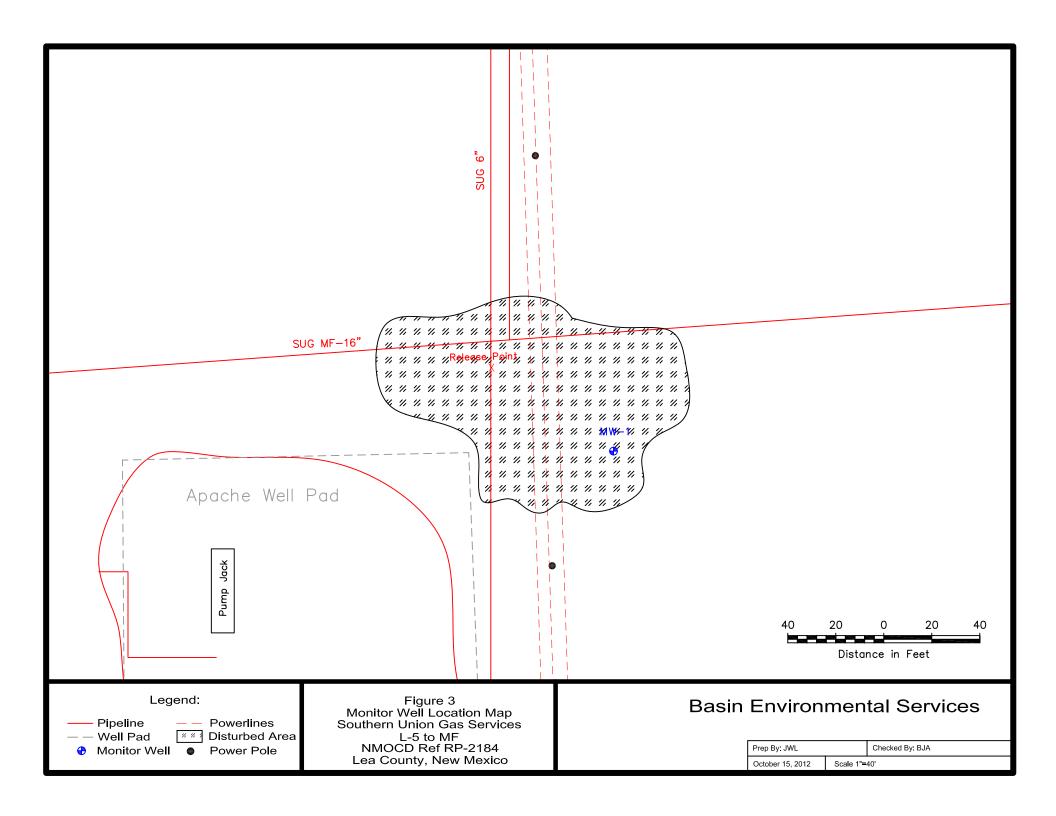


Southern Union Gas services L-5 to MF NMOCD Ref RP-2184 Lea County, New Mexico



Apex TITAN, Inc. 505 N. Big Springs Street, Suite 301A Midland, Texas 79701 Phone: (432) 695-6016 www.apexcos.com
A Subsidiary of Apex Companies, LLC

FIGURE 2 Site Vicinity Map 2014 Aerial Photograph Source: Google Earth





APPENDIX B

Soil Analytical Results Groundwater Analytical Results

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

SOUTHERN UNION GAS SERVICES L-5 TO MF HISTORICAL RELEASE SITE LEA COUNTY, NEW MEXICO NMOCD REF# 1RP-2185

					METHOD: EF	PA SW 846-80	21B, 5030		ME	THOD: 801	5M	TOTAL	METHOD: E300.0
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (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 ₂₈	CHLORIDE (mg/Kg)
B.S	N/A	3/30/2009	N/A	ı	-	1	1	-	-	-	-	-	<16
PR @ 19'	19'	3/30/2009	N/A	<0.050	<0.050	<0.050	<0.030	<0.050	-	-	-	-	-
PR @ 26'	26'	4/22/2009	N/A	<0.050	<0.050	<0.050	<0.030	<0.050	<10.0	158	-	158	-
		,,,_,		.01000		.01000	101000						
WW-Comp.	N/A	4/29/2009	N/A	-	-	-	-	-	<10.0	65.6	-	65.6	-
SW-Comp.	N/A	4/29/2009	N/A	-	-	-	-	-	<10.0	15.6	-	15.6	
EW-Comp.	N/A	4/29/2009	N/A	ı	-	-	-	-	<10.0	79.9	-	79.9	
NW-Comp.	N/A	5/4/2009	N/A						<10.0	1,230	-	1,230	-
2-EW-Comp.	N/A	5/4/2009	N/A	-	-	-	-	-	<10.0	80.0	-	80.0	-
2-WW-Comp.	N/A	5/4/2009	N/A	-	-	-	-	-	<10.0	<10.0	-	<10.0	-
NW-Comp.	N/A	5/12/2009	N/A	-	-	-	-	-	<10.0	12.2	-	12.2	-
MM/ 1 @ F'	5 1	0/00/0040	In City	.0.00405	.0.00000	.0.004.05	-0.00405	0.00000	45.7	F2 0	45.7	F2 0	202
MW-1 @ 5'	5'	2/26/2013	In-Situ	<0.00105	<0.00209	<0.00105	<0.00105	<0.00209	<15.7	53.9 19.8	<15.7 <16.2	53.9 19.8	392
MW-1 @ 10' MW-1 @ 15'	10' 15'	2/26/2013 2/26/2013	In-Situ In-Situ	-	-	-	-	-	<16.2 <16.6	<16.6	<16.2	<16.6	500 133
MW-1 @ 20'	20'	2/26/2013	In-Situ In-Situ	<0.00110	<0.00220	<0.00110	<0.00110	- <0.00110	<16.6	<16.6	<16.6	<16.6	53.4
MW-1 @ 25'	25'	2/26/2013	In-Situ	<0.00110	<0.00220	<0.00110	<0.00110	<0.00110	<16.0	<16.0	<16.0	<16.6	15.1
MW-1 @ 20'	30'	2/26/2013	In-Situ	_	_			_	<15.9	<15.1	<15.9	<15.1	20.1
MW-1 @ 35'	35'	2/26/2013	In-Situ	<0.00107	<0.00213	<0.00107	<0.00107	<0.00107	<16.0	<16.0	<16.0	<16.0	17.6
WWW 1 @ 55	- 55	2/20/2013	III Ollu	30.00107	₹0.00210	30.00107	<u> </u>	\0.00101	V10.0	×10.0	×10.0	×10.0	17.0
NMOCD Standard				10				50				100	250

^{- =} Not analyzed.

TABLE 2

CONCENTRATIONS OF BENZENE, BTEX, CHLORIDE & TDS IN GROUNDWATER

SOUTHERN UNION GAS SERVICES L-5 to MF HISTORICAL RELEASE SITE LEA COUNTY, NEW MEXICO NMOCD REF # 1RP-2185

				METHO	DDS: EPA S	W 846-8021B			SM2540C	EPA 300
SAMPLE LOCATION	SAMPLE DATE	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL- BENZENE (mg/L)	M,P- XYLENES (mg/L)	O-XYLENES (mg/L)	TOTAL XYLENE (mg/L)	TOTAL BTEX (mg/L)	TDS (mg/L)	CHLORIDE (mg/L)
MW-1	02/28/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100	675	102
MW-1	05/09/13	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00100	< 0.00100	-	123
MW-1	09/03/13	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100	1	96.4
MW-1	01/09/14	0.0258	<0.00200	0.00344	0.00444	<0.00100	0.00444	0.0337	1	103.0
MW-1	02/28/14	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100		117.0
NMOCD CRITERIA		0.01	0.75	0.75	TOT	AL XYLENES	0.62			250



APPENDIX C

Laboratory Data Reports & Chain-of-Custody Documents

Analytical Report 458517

for Southern Union Gas Services- Monahans

Project Manager: Joel Lowry
L-5 to MF

03-MAR-13

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)





03-MAR-13

Project Manager: Joel Lowry

Southern Union Gas Services- Monahans

801 South Loop 464 Monahans, TX 79756

Reference: XENCO Report No(s): 458517

L-5 to MF

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(s) 458517. 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. 458517 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

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



Sample Cross Reference 458517



Southern Union Gas Services- Monahans, Monahans, TX

L-5 to MF

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	02-28-13 11:00		458517-001

CASE NARRATIVE



Client Name: Southern Union Gas Services- Monahans

Project Name: L-5 to MF



Project ID: Report Date: 03-MAR-13 Work Order Number(s): 458517 Date Received: 02/28/2013

Sample receipt non conformances and comments:
None

 $\label{thm:conformances} \textbf{Sample receipt non conformances and comments per sample:}$

None



Certificate of Analysis Summary 458517

Southern Union Gas Services- Monahans, Monahans, TX



Project Id:

Project Location: Lea County, NM

Contact: Joel Lowry

Project Name: L-5 to MF

Date Re

Date Received in Lab: Thu Feb-28-13 02:22 pm

Report Date: 03-MAR-13

Project Manager: Nicholas Straccione

				1 Toject Manager.	Micholas Straccione	
Lab Id:	458517-001					
Field Id:	MW-1					
Depth:						
Matrix:	WATER					
Sampled:	Feb-28-13 11:00					
Extracted:	Mar-01-13 10:30					
Analyzed:	Mar-01-13 11:04					
Units/RL:	mg/L RL					
	ND 0.00100					
	ND 0.00200					
	ND 0.00100					
	ND 0.00200					
	ND 0.00100					
	ND 0.00100					
	ND 0.00100					
Extracted:						
Analyzed:	Mar-01-13 15:19					
Units/RL:	mg/L RL					
	102 20.0					
Extracted:						
Analyzed:	Mar-01-13 12:00					
Units/RL:	mg/L RL					
	675 25.0					
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Analyzed:	Field Id: MW-1 Depth: Matrix: WATER Sampled: Feb-28-13 11:00 Extracted: Mar-01-13 10:30 Analyzed: Mar-01-13 11:04 Units/RL: mg/L RL ND 0.00100 ND 0.00200 ND 0.00100 ND 0.00100 ND 0.00100 Extracted: Analyzed: Units/RL: mg/L RL Louits/RL: Mar-01-13 12:00 Units/RL: Mar-01-13 12:00	Field Id: MW-1 Depth: Matrix: WATER Sampled: Feb-28-13 11:00 Extracted: Mar-01-13 10:30 Analyzed: Mar-01-13 11:04 Units/RL: mg/L RL ND 0.00100 ND 0.00200 ND 0.00100 ND 0.00100 ND 0.00100 Extracted: Analyzed: Mar-01-13 15:19 Units/RL: Extracted: Analyzed: Mar-01-13 12:00 Units/RL: Units/RL: mg/L RL	Field Id: MW-1 Depth: Matrix: WATER Sampled: Feb-28-13 11:00 Extracted: Mar-01-13 10:30 Analyzed: Mar-01-13 11:04 Mg/L RL Vunits/RL: mg/L RL ND 0.00100 ND 0.00200 ND 0.00100 ND 0.00100 ND 0.00100 ND 0.00100 Extracted: Analyzed: Mar-01-13 15:19 Units/RL: mg/L RL Extracted: Analyzed: Mar-01-13 12:00 Units/RL: mg/L RL	Lab Id:	Field Id: MW-1 Depth: Matrix: WATER Sampled: Feb-28-13 11:00 Extracted: Mar-01-13 10:30 Analyzed: Mar-01-13 11:04 Units/RL: mg/L RL ND 0.00100 ND 0.00200 ND 0.00200 ND 0.00100 ND 0.00100 ND 0.00100 ND 0.00100 Extracted: Analyzed: Mar-01-13 15:19 Units/RL: mg/L RL 102 20.0 Extracted: Analyzed: Mar-01-13 12:00 Units/RL: mg/L RL

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 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 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.
- * Surrogate recovered outside laboratory control limit.
- **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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Form 2 - Surrogate Recoveries

Project Name: L-5 to MF

Work Orders: 458517, Project ID:

Units: mg/L Date Analyzed: 03/01/13 11:04	SU	RROGATE RI	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0289	0.0300	96	80-120	
4-Bromofluorobenzene	0.0317	0.0300	106	80-120	

Lab Batch #: 908039 Sample: 634479-1-BLK / BLK Batch: 1 Matrix: Water

Units: mg/L	SU	RROGATE RE	ECOVERY S	STUDY		
BTEX b	y EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
A	nalytes			[D]		
1,4-Difluorobenzene		0.0314	0.0300	105	80-120	
4-Bromofluorobenzene		0.0294	0.0300	98	80-120	

Units: mg/L Date Analyzed: 03/	01/13 08:38	SUI	RROGATE RE	COVERY	STUDY	
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes				[D]		
1,4-Difluorobenzene		0.0277	0.0300	92	80-120	
4-Bromofluorobenzene		0.0338	0.0300	113	80-120	

Lab Batch #: 908039 Sample: 634479-1-BSD / BSD Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 03/01/13 08:54	SU	RROGATE RI	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0268	0.0300	89	80-120	
4-Bromofluorobenzene	0.0328	0.0300	109	80-120	

Lab Batch #: 908039 **Sample:** 458187-001 S / MS **Batch:** 1 **Matrix:** Water

Units: mg/L Date Analyzed: 03/01/13 10:15	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	0.0275	0.0300	92	80-120	
4-Bromofluorobenzene	0.0345	0.0300	115	80-120	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

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

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Project Name: L-5 to MF

 Work Orders: 458517,
 Project ID:

 Lab Batch #: 908039
 Sample: 458187-001 SD / MSD
 Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 03/01/13 10:31		SURROGATE RECOVERY STUDY										
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags						
Analy	rtes			[D]								
1,4-Difluorobenzene		0.0332	0.0300	111	80-120							
4-Bromofluorobenzene		0.0305	0.0300	102	80-120							

Surrogate Recovery [D] = 100 * A / B

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

^{*} 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: L-5 to MF

Work Order #: 458517

Project ID:

Analyst: KEB

Date Prepared: 03/01/2013 **Batch #:** 1

Date Analyzed: 03/01/2013

Lab Batch ID: 908039

Sample: 634479-1-BKS

Matrix: Water

Units: mg/L BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUD
--

BTEX by EPA 8021B 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
Benzene	<0.00100	0.100	0.0936	94	0.100	0.0997	100	6	70-125	25	
Toluene	< 0.00200	0.100	0.0925	93	0.100	0.0973	97	5	70-125	25	
Ethylbenzene	< 0.00100	0.100	0.0943	94	0.100	0.0962	96	2	71-129	25	
m_p-Xylenes	< 0.00200	0.200	0.187	94	0.200	0.194	97	4	70-131	25	
o-Xylene	< 0.00100	0.100	0.0936	94	0.100	0.0967	97	3	71-133	25	

Analyst: AMB **Date Prepared:** 03/01/2013 **Date Analyzed:** 03/01/2013

Lab Batch ID: 908083 Sample: 908083-1-BKS Batch #: 1 Matrix: Water

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY Units: mg/L Blk. Spk **Inorganic Anions by EPA 300/300.1** Blank Spike Blank Blank Blank Control Control Spike Sample Result Added Spike Spike Spike Dup. RPD Limits Limits Flag Added [A] Result %R Duplicate %R % %R %RPD [B] [C] [D] Result [F] [G] [E] **Analytes** Chloride < 1.00 25.0 24.3 97 25.0 24.7 99 2 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: L-5 to MF

Work Order #: 458517

Project ID:

Analyst: MTK

Date Prepared: 03/01/2013

Date Analyzed: 03/01/2013

Lab Batch ID: 908093

Sample: 908093-1-BKS **Batch #:** 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Units: mg E												
TDS by SM2540C	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]					
Total dissolved solids	<25.0	1000	994	99	1000	1040	104	5	80-120	30		



Form 3 - MS Recoveries

Project Name: L-5 to MF



Work Order #: 458517

Lab Batch #: 908083 Project ID:

QC- Sample ID: 458508-001 S **Batch #:** 1 **Matrix:** Water

Reporting Units: mg/L	MATE	RIX / MA'	TRIX SPIKE	RECOV	ERY STU	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	1600	2500	4230	105	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



Form 3 - MS / MSD Recoveries



Project Name: L-5 to MF

Work Order #: 458517 Project ID:

Lab Batch ID: 908039 **QC- Sample ID:** 458187-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 03/01/2013 Date Prepared: 03/01/2013 KEB

Reporting Units: mg/L	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY												
BTEX by EPA 8021B	Parent Sample Result	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag		
Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD			
Benzene	< 0.00100	0.100	0.107	107	0.100	0.106	106	1	70-125	25			
Toluene	< 0.00200	0.100	0.109	109	0.100	0.102	102	7	70-125	25			
Ethylbenzene	< 0.00100	0.100	0.109	109	0.100	0.108	108	1	71-129	25			
m_p-Xylenes	< 0.00200	0.200	0.205	103	0.200	0.208	104	1	70-131	25			
o-Xylene	< 0.00100	0.100	0.102	102	0.100	0.104	104	2	71-133	25			



Sample Duplicate Recovery



Project Name: L-5 to MF

Work Order #: 458517

 Lab Batch #:
 908093
 Project ID:

 Date Analyzed:
 03/01/2013 12:00
 Date Prepared:
 03/01/2013
 Analyst:
 MTK

 QC- Sample ID:
 458508-001 D
 Batch #:
 1
 Matrix:
 Water

Reporting Units: mg/L	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
TDS by SM2540C Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	3440	3860	12	30	

LAB Order ID# 458517

Submittal of samples constitutes agreement to Terms and Conditions

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LAB Order IL		-						101 Ea	ast Ma	rland			-					: -	_			*	::		·: ——			Ра	ge		1	°	of _	5
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Address:	Lovington,	, NM 8826	30			Fax /	#:				(5	575)3	96-1	1429	,											\top		П		T	П	T	T	1
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Project Location: (include state)	Lea / NM		 			Samp Signa			uel	Q .	X	ow		`\ `\																			Turn Around Time if different from standard	
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LAB ID	SAMPLE ID		or (C	N N	2		- ;	삤			12								8021B														D D	
(LAB USE)		· .	(G)RAB or (C)OMP	# CONTAINERS	WATER	SOIL	AIR	SLUDGE	된	HNO3	H ₂ SO ₄	NaOH ICE	NONE NONE	! .	DATE	TIME	Chloride	TDS	BTEX 8														Tum Arc	PPH
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ORIGINAL COPY

Log-in Review

Carrier #



Work Order #: 458517

XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Date/ Time Received: 02/28/2013 02:22:00 PM

Air and Metal samples Acceptable Range: Ambient

Acceptable Temperature Range: 0 - 6 degC

Temperature Measuring device used :

	Sample Receipt Check	list Comments
#1 *Temperature of cooler(s)?		-1
#2 *Shipping container in good	condition?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shi	pping container/ cooler?	Yes
#5 Custody Seals intact on sam	ple bottles?	Yes
#6 *Custody Seals Signed and	dated?	Yes
#7 *Chain of Custody present?		Yes
#8 Sample instructions complet	e on Chain of Custody?	Yes
#9 Any missing/extra samples?		No
#10 Chain of Custody signed w	hen relinquished/ received?	Yes
#11 Chain of Custody agrees w	ith sample label(s)?	Yes
#12 Container label(s) legible a	nd intact?	Yes
#13 Sample matrix/ properties a	agree with Chain of Custody?	Yes
#14 Samples in proper contained	er/ bottle?	Yes
#15 Samples properly preserve	d?	Yes
#16 Sample container(s) intact?	•	Yes
#17 Sufficient sample amount for	or indicated test(s)?	Yes
#18 All samples received within	hold time?	Yes
#19 Subcontract of sample(s)?		Yes
#20 VOC samples have zero he	eadspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserve	d with HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserv	ed with NaAsO2+NaOH, ZnAc+NaOH?	Yes
Must be completed for after-h Analyst:	ours delivery of samples prior to pla	cing in the refrigerator
	5	
Checklist complete	d by:	 Date:
Checklist reviewe	 d by:	_

Date:

Analytical Report 458453

for Southern Union Gas Services- Monahans

Project Manager: Joel Lowry

L-5 to MF

(1RP-2184)

11-MAR-13

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)





11-MAR-13

Project Manager: Joel Lowry

Southern Union Gas Services- Monahans

801 South Loop 464 Monahans, TX 79756

Reference: XENCO Report No(s): 458453

L-5 to MF

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(s) 458453. 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. 458453 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 458453



Southern Union Gas Services- Monahans, Monahans, TX

L-5 to MF

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1 @ 5'	S	02-26-13 09:30	5 ft	458453-001
MW-1 @ 10'	S	02-26-13 09:40	10 ft	458453-002
MW-1 @ 15'	S	02-26-13 09:50	15 ft	458453-003
MW-1 @ 20'	S	02-26-13 10:00	20 ft	458453-004
MW-1 @ 25'	S	02-26-13 10:10	25 ft	458453-005
MW-1 @ 30'	S	02-26-13 10:20	30 ft	458453-006
MW-1 @ 35'	S	02-26-13 10:30	35 ft	458453-007

CASE NARRATIVE



Client Name: Southern Union Gas Services- Monahans

Project Name: L-5 to MF



 Project ID:
 (1RP-2184)
 Report Date:
 11-MAR-13

 Work Order Number(s):
 458453
 Date Received:
 02/27/2013

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-908387 Inorganic Anions by EPA 300/300.1

E300

Batch 908387, Chloride recovered below QC limits in the Matrix Spike.

Samples affected are: 458453-006, -007, -005.

The Laboratory Control Sample for Chloride is within laboratory Control Limits

Batch: LBA-908636 BTEX by EPA 8021B

SW8021BM

Batch 908636, Ethylbenzene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike

Duplicate.

Samples affected are: 458453-001, -004.

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

Limits

Page 4 of 20

Final 1.000



Certificate of Analysis Summary 458453

Southern Union Gas Services- Monahans, Monahans, TX

Project Name: L-5 to MF



Project Id: (1RP-2184)

Project Location: Lea County, NM

Contact: Joel Lowry

Date Received in Lab: Wed Feb-27-13 10:20 am

Report Date: 11-MAR-13

Project Manager: Nicholas Straccione

								J	8	tienoras Burae			
	Lab Id:	458453-0	001	458453-0	02	458453-0	03	458453-0	04	458453-0	005	458453-00	06
Analysis Requested	Field Id:	MW-1 @	5'	MW-1 @	10'	MW-1 @	15'	MW-1 @	20'	MW-1 @	25'	MW-1 @ 3	30'
Analysis Requested	Depth:	5- ft		10- ft		15- ft		20- ft		25- ft		30- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-26-13	09:30	Feb-26-13 0	9:40	Feb-26-13 0)9:50	Feb-26-13 1	0:00	Feb-26-13	10:10	Feb-26-13 1	10:20
BTEX by EPA 8021B	Extracted:	Mar-08-13	13:10					Mar-08-13 1	3:10				
	Analyzed:	Mar-08-13	19:11					Mar-08-13 1	9:28				
	Units/RL:	mg/kg	RL					mg/kg	RL				
Benzene		ND	0.00105					ND	0.00110				
Toluene		ND	0.00209					ND	0.00220				
Ethylbenzene		ND	0.00105					ND	0.00110				
m_p-Xylenes		ND	0.00209					ND	0.00220				
o-Xylene		ND	0.00105						0.00110				
Total Xylenes		ND	0.00105					ND	0.00110				
Total BTEX		ND	0.00105					ND	0.00110				
Inorganic Anions by EPA 300/300.1	Extracted:												
SUB: TX104704215	Analyzed:	Mar-06-13	09:02	Mar-06-13 (9:24	Mar-06-13 (09:45	Mar-06-13 1	0:07	Mar-06-13	12:46	Mar-06-13 1	13:30
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		392	10.0	500	10.0	133	20.0	53.4	10.0	15.1	4.00	20.1	4.00
Percent Moisture	Extracted:												
	Analyzed:	Mar-01-13	13:45	Mar-01-13 1	13:45	Mar-01-13 1	13:45	Mar-01-13 1	3:45	Mar-04-13	13:00	Mar-04-13 1	13:00
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		4.71	1.00	7.89	1.00	9.69	1.00	9.55	1.00	6.77	1.00	5.88	1.00
TPH By SW8015 Mod	Extracted:	Mar-01-13	16:00	Mar-01-13 1	6:00	Mar-01-13 1	16:00	Mar-01-13 1	6:00	Mar-01-13	16:00	Mar-01-13 1	16:00
	Analyzed:	Mar-02-13	02:01	Mar-02-13 ()2:25	Mar-02-13 (02:49	Mar-02-13 (3:14	Mar-02-13 (03:38	Mar-02-13 0	04:02
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND 15.7		ND	16.2	ND	16.6	ND	16.6	ND	16.1	ND	15.9
C12-C28 Diesel Range Hydrocarbons		53.9 15.7		19.8	16.2	ND	16.6	ND	16.6	ND	16.1	ND	15.9
C28-C35 Oil Range Hydrocarbons		ND	15.7	ND	16.2	ND	16.6	ND	16.6	ND	16.1	ND	15.9
Total TPH		53.9	15.7	19.8	16.2	ND	16.6	ND	16.6	ND	16.1	ND	15.9

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 Straccione Project Manager



Certificate of Analysis Summary 458453

Southern Union Gas Services- Monahans, Monahans, TX



Project Name: L-5 to MF Project Id: (1RP-2184)

Contact: Joel Lowry

Project Location: Lea County, NM

Date Received in Lab: Wed Feb-27-13 10:20 am

Report Date: 11-MAR-13

Project Manager: Nicholas Straccione

				1 Toject Manager:	Tricholas Suaccione	
Lab Id:	458453-007					
Field Id:	MW-1 @ 35'					
Depth:	35- ft					
Matrix:	SOIL					
Sampled:	Feb-26-13 10:30					
Extracted:	Mar-04-13 08:10					
Analyzed:	Mar-04-13 09:51					
Units/RL:						
1	ND 0.00107					
	ND 0.00213					
	ND 0.00107					
	ND 0.00213					
	ND 0.00107					
	ND 0.00107					
	ND 0.00107					
Extracted:						
Analyzed:	Mar-06-13 13:51					
Units/RL:	mg/kg RL					
-	17.6 4.00					
Extracted:						
Analyzed:	Mar-04-13 13:00					
Units/RL:	% RL					
	6.79 1.00					
Extracted:	Mar-01-13 16:00					
Analyzed:	Mar-02-13 04:26					
Units/RL:	mg/kg RL					
•	ND 16.0					
	ND 16.0					
	ND 16.0					
	ND 16.0					
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Analyzed: Analyzed:	Field Id: MW-1 @ 35' Depth: 35- ft Matrix: SOIL Sampled: Feb-26-13 10:30 Extracted: Mar-04-13 08:10 Analyzed: Mar-04-13 09:51 Mp Mar-04-13 09:51 Mp 0.00107 ND 0.00213 ND 0.00107 ND 0.00107 ND 0.00107 Extracted: Analyzed: Mar-06-13 13:51 Units/RL: mg/kg RL Analyzed: Mar-04-13 13:00 Extracted: Analyzed: Mar-04-13 13:00 Extracted: Mar-01-13 16:00 Analyzed: Mar-02-13 04:26 Units/RL: mg/kg RL ND 16.0 ND 16.0 ND 16.0 ND 16.0	Field Id: MW-1 @ 35' Depth: 35- ft Matrix: SOIL Sampled: Feb-26-13 10:30 Extracted: Mar-04-13 08:10 Analyzed: Mar-04-13 09:51 Units/RL: mg/kg RL ND 0.00107 ND 0.00213 ND 0.00107 ND 0.00107 ND 0.00107 ND 0.00107 ND 0.00107 ND 0.00107 Extracted: Analyzed: Mar-06-13 13:51 Units/RL: mg/kg RL 17.6 4.00 Extracted: Analyzed: Mar-04-13 13:00 Units/RL: % RL 6.79 1.00 Extracted: Mar-01-13 16:00 Analyzed: Mar-02-13 04:26 Units/RL: mg/kg RL ND 16.0 ND 16.0 ND 16.0 ND 16.0	Field Id: MW-1 @ 35' Depth: 35- ft Matrix: SOIL Sampled: Feb-26-13 10:30 Extracted: Mar-04-13 08:10 Analyzed: Mar-04-13 09:51 Units/RL: mg/kg RL ND 0.00107 ND 0.00213 ND 0.00107 ND 0.00107 ND 0.00107 ND 0.00107 ND 0.00107 ND 0.00107 Extracted: Analyzed: Mar-06-13 13:51 Units/RL: mg/kg RL Units/RL: mg/kg RL Extracted: Analyzed: Mar-04-13 13:00 Units/RL: % RL Extracted: Mar-01-13 16:00 Analyzed: Mar-02-13 04:26 Units/RL: mg/kg RL ND 16.0 ND 16.0 ND 16.0 ND 16.0	Lab Id:	Field Id: MW-1 @ 35' Depth: 35- ft Matrix: SOIL Sampled: Feb-26-13 10:30 Extracted: Mar-04-13 08:10 Analyzed: Mar-04-13 09:51 Units/RL: mg/kg RL ND 0.00107 ND 0.00213 ND 0.00107 ND 0.00107 ND 0.00107 ND 0.00107 ND 0.00107 ND 0.00107 Extracted: Analyzed: Mar-06-13 13:51 Units/RL: mg/kg RL 17.6 4.00 Extracted: Analyzed: Mar-04-13 13:00 Units/RL: % RL 17.6 4.00 Extracted: Mar-01-13 16:00 Analyzed: Mar-01-13 16:00 Analyzed: Mar-02-13 04:26 Units/RL: mg/kg RL 1.00 Extracted: Mar-01-13 10:00 Extracted: Mar-01-13 10:00 ND 0.00107 ND 0.00107 Extracted: Mar-01-13 16:00 ND 0.00107 Extracted: Mar-01-13 10:00 Extracted: Mar-01-13 16:00 ND 16.0 ND 16.0

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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^{*} Surrogate recovered outside laboratory control limit.



Project Name: L-5 to MF

Work Orders: 458453, **Project ID:** (1RP-2184)

Units: mg/kg Date Analyzed: 03/02/13 02:01	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	101	99.5	102	70-135	
o-Terphenyl	52.5	49.8	105	70-135	

Units: mg/kg Date Analyzed: 03/02/13 02:25	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	97.5	99.7	98	70-135		
o-Terphenyl	51.7	49.9	104	70-135		

Lab Batch #: 908102 Sample: 458453-003 / SMP Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 03/02/13 02:49	SU	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1-Chlorooctane	95.1	99.8	95	70-135			
o-Terphenyl	50.4	49.9	101	70-135			

Units: mg/kg Date Analyzed: 03/02/13 03:14	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	98.7	99.8	99	70-135	
o-Terphenyl	52.4	49.9	105	70-135	

Units: mg/kg Date Analyzed: 03/02/13 03:38	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	100	100	100	70-135	
o-Terphenyl	53.1	50.0	106	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: L-5 to MF

Work Orders: 458453, **Project ID:** (1RP-2184)

Units: mg/kg	Date Analyzed: 03/02/13 04:02	SURROGATE RECOVERY STUDY					
	y SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane		97.0	99.9	97	70-135		
o-Terphenyl		51.3	50.0	103	70-135		

Units: mg/kg Date Analyzed: 03/02/13 04:26	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	98.7	99.7	99	70-135		
o-Terphenyl	52.0	49.9	104	70-135		

Lab Batch #: 908204 Sample: 458453-007 / SMP Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 03/04/13 09:51 SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0261	0.0300	87	80-120	
4-Bromofluorobenzene	0.0278	0.0300	93	80-120	

Units: mg/kg Date Analyzed: 03/08/13 19:11	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0320	0.0300	107	80-120	
4-Bromofluorobenzene	0.0317	0.0300	106	80-120	

Units: mg/kg Date Analyzed: 03/08/13 19:28	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0252	0.0300	84	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	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: L-5 to MF

Work Orders: 458453, **Project ID:** (1RP-2184)

Lab Batch #: 908102 Sample: 634524-1-BLK / BLK Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 03/02/13 01:36	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	98.9	99.8	99	70-135	
o-Terphenyl	52.7	49.9	106	70-135	

Lab Batch #: 908204 Sample: 634606-1-BLK / BLK Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 03/04/13 09:35	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0302	0.0300	101	80-120	

Lab Batch #: 908636 Sample: 634866-1-BLK / BLK Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 03/08/13 15:06	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0305	0.0300	102	80-120	
4-Bromofluorobenzene	0.0287	0.0300	96	80-120	

Lab Batch #: 908102 Sample: 634524-1-BKS / BKS Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 03/02/13 00:47	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	89.3	99.7	90	70-135	
o-Terphenyl	51.5	49.9	103	70-135	

Lab Batch #: 908204 Sample: 634606-1-BKS / BKS Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 03/04/13 09:02	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0323	0.0300	108	80-120	
4-Bromofluorobenzene	0.0324	0.0300	108	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: L-5 to MF

Work Orders: 458453, **Project ID:** (1RP-2184)

Lab Batch #: 908636 Sample: 634866-1-BKS / BKS Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 03/08/13 14:33	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0318	0.0300	106	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

Lab Batch #: 908102 Sample: 634524-1-BSD / BSD Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 03/02/13 01:12	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	94.9	99.9	95	70-135	
o-Terphenyl	55.0	50.0	110	70-135	

Lab Batch #: 908204 Sample: 634606-1-BSD / BSD Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 03/04/13 09:19	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0331	0.0300	110	80-120	
4-Bromofluorobenzene	0.0338	0.0300	113	80-120	

Lab Batch #: 908636 Sample: 634866-1-BSD / BSD Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 03/08/13 14:49	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	80-120	

Units: mg/kg Date Analyzed: 03/02/13 10:35	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	93.7	99.7	94	70-135	
o-Terphenyl	53.9	49.9	108	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: L-5 to MF

Work Orders: 458453, **Project ID:** (1RP-2184)

Lab Batch #: 908204 **Sample:** 458453-007 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg Date Analyzed: 03/04/13 12:02	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0310	0.0300	103	80-120	
4-Bromofluorobenzene	0.0306	0.0300	102	80-120	

Units: mg/kg Date Analyzed: 03/08/13 20:01	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0335	0.0300	112	80-120	
4-Bromofluorobenzene	0.0329	0.0300	110	80-120	

Units: mg/kg Date Analyzed: 03/02/13 11:01	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	94.2	99.9	94	70-135	
o-Terphenyl	55.2	50.0	110	70-135	

Lab Batch #: 908204 **Sample:** 458453-007 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg Date Analyzed: 03/04/13 12:19	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0335	0.0300	112	80-120	
4-Bromofluorobenzene	0.0344	0.0300	115	80-120	

Lab Batch #: 908636 **Sample:** 458452-004 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg Date Analyzed: 03/08/13 20:17	SU	SURROGATE RECOVERY STUDY							
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
Analytes			[D]						
1,4-Difluorobenzene	0.0315	0.0300	105	80-120					
4-Bromofluorobenzene	0.0342	0.0300	114	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



BS / BSD Recoveries



Project Name: L-5 to MF

Work Order #: 458453 Analyst: KEB

Date Prepared: 03/04/2013

Batch #: 1

Project ID: (1RP-2184) **Date Analyzed:** 03/04/2013

Lab Batch ID: 908204

Sample: 634606-1-BKS

Matrix: Solid

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B 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
Benzene	<0.00100	0.100	0.0892	89	0.0996	0.0950	95	6	70-130	35	
Toluene	< 0.00200	0.100	0.0864	86	0.0996	0.0937	94	8	70-130	35	
Ethylbenzene	< 0.00100	0.100	0.0880	88	0.0996	0.0969	97	10	71-129	35	
m_p-Xylenes	< 0.00200	0.200	0.170	85	0.199	0.190	95	11	70-135	35	
o-Xylene	< 0.00100	0.100	0.0888	89	0.0996	0.0924	93	4	71-133	35	

Analyst: KEB Date Prepared: 03/08/2013 Date Analyzed: 03/08/2013

Lab Batch ID: 908636 Sample: 634866-1-BKS Batch #: 1 Matrix: Solid

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

BTEX by EPA 8021B 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
Benzene	< 0.00100	0.100	0.0812	81	0.0998	0.0812	81	0	70-130	35	
Toluene	< 0.00201	0.100	0.0807	81	0.0998	0.0801	80	1	70-130	35	
Ethylbenzene	< 0.00100	0.100	0.0779	78	0.0998	0.0786	79	1	71-129	35	
m_p-Xylenes	< 0.00201	0.201	0.151	75	0.200	0.147	74	3	70-135	35	
o-Xylene	< 0.00100	0.100	0.0778	78	0.0998	0.0777	78	0	71-133	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



BS / BSD Recoveries



Project Name: L-5 to MF

Work Order #: 458453

Date Prepared: 03/06/2013

Project ID: (1RP-2184) **Date Analyzed:** 03/06/2013

Analyst: AMB

Matrix: Solid

Lab Batch ID: 908358

Sample: 908358-1-BKS **Batch #:** 1

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Units: mg/kg		BLANK STIKE / BLANK STIKE DOTLICATE RECOVERT STODT									
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	<2.00	50.0	51.7	103	50.0	51.4	103	1	80-120	20	

Date Analyzed: 03/06/2013 Analyst: AMB **Date Prepared:** 03/06/2013

Matrix: Solid **Lab Batch ID:** 908387 **Batch #:** 1 **Sample:** 908387-1-BKS

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

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	<2.00	50.0	51.6	103	50.0	51.7	103	0	80-120	20	

Analyst: KEB **Date Prepared:** 03/01/2013 **Date Analyzed:** 03/02/2013

Matrix: Solid **Lab Batch ID:** 908102 **Sample:** 634524-1-BKS **Batch #:** 1

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

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	45.0				[E]				50.105	25	
C6-C12 Gasoline Range Hydrocarbons	<15.0	997	1010	101	999	996	100	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	997	1040	104	999	1040	104	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: L-5 to MF



Work Order #: 458453

Project ID: (1RP-2184) Lab Batch #: 908358

Date Analyzed: 03/06/2013 **Date Prepared:** 03/06/2013 Analyst: AMB **QC- Sample ID:** 458450-001 S Batch #:

Matrix: Soil Reporting Units: mg/kg MATRIX / MATRIX SPIKE RECOVERY STUDY

Reporting Omes. mg/kg	WATRIX / WATRIX STIKE RECOVERT STODI						
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag	
Analytes	[A]	[B]					
Chloride	94.3	250	356	105	80-120		

Lab Batch #: 908358

Date Prepared: 03/06/2013 Analyst: AMB **Date Analyzed:** 03/06/2013 **QC- Sample ID:** 458452-002 S Batch #: Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY Reporting Units: mg/kg

Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag				
rinary tes										
Chloride	35.7	250	282	99	80-120					

Lab Batch #: 908387

Date Analyzed: 03/06/2013 **Date Prepared:** 03/06/2013 Analyst: AMB **QC- Sample ID:** 458453-005 SBatch #: Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY Reporting Units: mg/kg

Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	15.1	100	122	107	80-120	

Lab Batch #: 908387

Date Prepared: 03/06/2013 Analyst: AMB **Date Analyzed:** 03/06/2013 **QC- Sample ID:** 458532-001 S Batch #: Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY Reporting Units: mg/kg

Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	1990	1000	2880	89	80-120	

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

Page 15 of 20 Final 1.000



Form 3 - MS / MSD Recoveries



Project Name: L-5 to MF

Work Order #: 458453 Project ID: (1RP-2184)

Lab Batch ID: 908204 **QC- Sample ID:** 458453-007 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 03/04/2013 Date Prepared: 03/04/2013 Analyst: KEB

Reporting Units: mg/kg		M	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY								
BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Benzene	< 0.00107	0.107	0.0988	92	0.107	0.0921	86	7	70-130	35	
Toluene	< 0.00214	0.107	0.0980	92	0.107	0.0912	85	7	70-130	35	
Ethylbenzene	< 0.00107	0.107	0.0973	91	0.107	0.0849	79	14	71-129	35	
m_p-Xylenes	< 0.00214	0.214	0.187	87	0.214	0.164	77	13	70-135	35	
o-Xylene	< 0.00107	0.107	0.0939	88	0.107	0.0835	78	12	71-133	35	

Lab Batch ID: 908636 **QC- Sample ID:** 458452-004 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 03/08/2013 Date Prepared: 03/08/2013 KEB

Reporting Units: mg/kg	IATRIX SPIK	E / MAT	MATRIX SPIKE DUPLICATE RECOVERY STUDY									
BTEX by EPA 8021B	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		
Benzene	< 0.00110	0.110	0.0885	80	0.110	0.0866	79	2	70-130	35		
Toluene	< 0.00221	0.110	0.0838	76	0.110	0.0782	71	7	70-130	35		
Ethylbenzene	< 0.00110	0.110	0.0864	79	0.110	0.0764	69	12	71-129	35	X	
m_p-Xylenes	<0.00221	0.221	0.155	70	0.220	0.140	64	10	70-135	35	X	
o-Xylene	< 0.00110	0.110	0.0789	72	0.110	0.0738	67	7	71-133	35	X	



Form 3 - MS / MSD Recoveries



Project Name: L-5 to MF

Work Order #: 458453 Project ID: (1RP-2184)

Lab Batch ID: 908102 **QC- Sample ID:** 458454-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 03/02/2013 Date Prepared: 03/01/2013 Analyst: KEB

Reporting Units: mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
TPH By SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Sample		Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag	
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD		
C6-C12 Gasoline Range Hydrocarbons	<15.9	1060	1060	100	1060	1070	101	1	70-135	35		
C12-C28 Diesel Range Hydrocarbons	45.5	1060	1140	103	1060	1150	104	1	70-135	35		



Sample Duplicate Recovery



Project Name: L-5 to MF

Work Order #: 458453

Lab Batch #: 908071 **Project ID:** (1RP-2184)

 Date Analyzed:
 03/01/2013 13:45
 Date Prepared:
 03/01/2013
 Analyst: WRU

 QC- Sample ID:
 458450-001 D
 Batch #:
 1
 Matrix:
 Soil

Reporting Units: %	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	16.1	16.0	1	20	

Lab Batch #: 908175

 Date Analyzed:
 03/04/2013 13:00
 Date Prepared:
 03/04/2013
 Analyst: WRU

 QC- Sample ID:
 458432-001 D
 Batch #:
 1
 Matrix: Soil

Reporting Units: % SAMPLE / SAMPLE DUPLICATE RECOVI							
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag		
Analyte		[D]					
Percent Moisture	24.0	24.1	0	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										1 :			<u>.</u> .	Pr	ojec	t Nar	ne: <u>L</u>	-5 t	o MF	F	: :			<u> </u>	<u> </u>		
	Company Name	Basin Environmental Ser	vice T	echnol	ogies, LLC						1 11				_		P	ojec	:#: <u>(</u>	1RP	-218	4)					· · · ·		
	Company Address:	P.O. Box 301															Proj	ect L	oc: L	ea C	ount	y, NI	M						
	City/State/Zip:	Lovington, NM 88260			11										- -			PO	#: <u>B</u>	ill Sc	outhe	ern U	Jnio	n Gas					
1 #	Telephone No:	(575)396-2378				Fax No	: <u>(</u>	575)	396-	-142	9				<u>.</u> F	Repor	t Fo	rmat	>	St	anda	rd		П тғ	RP		□ N	(PDE	s S
i:	Sampler Signature:	Opel form	\		:	e-mail:	<u>.</u>	m@)bas	sine	nv.c	om,	cync	di.ins	keer	0@st	ig.c	om,	rose.	slac					:			:	_
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ORDEI	はわること	3						г	Drese	rvat	ion 8	# Of	Conta	inere	I M	latrix	_			OTAL				X				3, 72 h	
LAB # (lab use only)		D CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered		ő		04		Na ₂ S ₂ O ₃	(Specify)	= Drinking Water SL = Sludg	GW = Groundwater S=Soil/Soil B	TPH: 418.1 8015M 8015E		Cations (Ca, Mg, Na, K)		Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles		BTEX 8021B/5030 or BTEX 8260 RCI	N.O.R.M.	CHLORIDES	Total Dissolved Solids	RUSH TAT (Pre-Schedule) 24, 48,	
Ol	MW	/-1 @ 5'	5		2/26/2013	930	1. 1	1 >	<u>. </u>					:	_	Soil	х					Ń		7	1	х		1	X
03	MW	-1 @ 10'	10		2/26/2013	940		1 >	<u>(</u>						5	Soil	х						\exists			x		1	x
03	MW	-1 @ 15'	15		2/26/2013	950		1 >	(S	oil	х						\neg			x			х
04	MW	-1 @ 20'	20		2/26/2013	1000		1 >	<u> </u>						5	Soil	Х									x			x
05	MW	-1 @ 25'	25		2/26/2013	1010		1 >	<u>(</u>		.		•		5	oil	Х									X			x
06	MW	-1 @ 30'	30		2/26/2013	1020		1)	(8	oil	Х									Х			Х
<u>07</u>	MW	-1 @ 35'	35	ļ	2/26/2013	1030		1 >	<u> </u>						8	oil	х							Х		х			x
											<u> </u>						Ĺ								\perp				
								\bot															\perp			Ш			L
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pecial	Instructions:	Hold For BTEX																3	Samp	le Co	y Cor ontain e of H	iers,	Intac	t?		S	2	N	5
Relinquis	hed by:	Date		ime	Received by:	1 1	7	::						: D	ate		Tim	e [abel	s on	conta	iner((s) *			TÉ.	Ž.	AZ(Z)	
Juel	four	2.37.17	00	<u> </u>	Mu	1. 11	a			_			0	26	<u> 27/</u>	13 0	26.		Susto	dy se	alsc	on co	ooler	ner(s) (s)			4		
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kelinquis	shed by:	O Date		ifne	Received by Xe		nt.	F/		<u>) </u>			Ĉ		ate - 113	1/3	Tim 37		Temp	eratu	ire Uj	pon F	Rece	ipt:		<u>3.</u>	\mathcal{I}	ါင်	D



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Date/ Time Received: 02/27/2013 10:20:00 AM

Work Order #: 458453

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

Temperature Measuring device used:

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s	s)?	1.5
#2 *Shipping container in g	ood condition?	Yes
#3 *Samples received on ic	ce?	Yes
#4 *Custody Seals intact of	n shipping container/ cooler?	Yes
#5 Custody Seals intact on		Yes
#6 *Custody Seals Signed	and dated?	Yes
#7 *Chain of Custody prese	ent?	Yes
#8 Sample instructions cor	nplete on Chain of Custody?	Yes
#9 Any missing/extra samp	les?	No
#10 Chain of Custody sign	ed when relinquished/ received?	Yes
#11 Chain of Custody agre	es with sample label(s)?	Yes
#12 Container label(s) legil	ole and intact?	Yes
#13 Sample matrix/ proper	ties agree with Chain of Custody?	Yes
#14 Samples in proper con	tainer/ bottle?	Yes
#15 Samples properly pres	erved?	Yes
#16 Sample container(s) in	tact?	Yes
#17 Sufficient sample amo	unt for indicated test(s)?	Yes
#18 All samples received v	vithin hold time?	Yes
#19 Subcontract of sample	(s)?	Yes
#20 VOC samples have ze	ro headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples pres	served with HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples pre	eserved with NaAsO2+NaOH, ZnAc+NaOH?	Yes
Must be completed for af	er-hours delivery of samples prior to placing	g in the refrigerator
Analyst:	PH Device/Lot#:	
/ trialyot.	TTT Device/Lot#.	
Checklist com	pleted by:	Date:
Checklist revi	ewed by:	

Date:

Analytical Report 463105

for Southern Union Gas Services- Monahans

Project Manager: Joel Lowry
L-5 to MF

20-MAY-13

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)





20-MAY-13

Project Manager: Joel Lowry

Southern Union Gas Services- Monahans

801 South Loop 464 Monahans, TX 79756

Reference: XENCO Report No(s): 463105

L-5 to MF

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(s) 463105. 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. 463105 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,

Kelsey Brooks

Project Manager

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Sample Cross Reference 463105



Southern Union Gas Services- Monahans, Monahans, TX

L-5 to MF

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	05-09-13 12:00		463105-001



CASE NARRATIVE



Client Name: Southern Union Gas Services- Monahans

Project Name: L-5 to MF

Project ID: Report Date: 20-MAY-13
Work Order Number(s): 463105
Date Received: 05/13/2013

Sample receipt non conformances and comments:
Sample receipt non conformances and comments per sample:
None



Certificate of Analysis Summary 463105

Southern Union Gas Services- Monahans, Monahans, TX



Project Id:

Project Location: Lea County, NM

Contact: Joel Lowry

Project Name: L-5 to MF

Date Received in Lab: Mon May-13-13 02:50 pm **Report Date:** 20-MAY-13

Project Manager: Kelsey Brooks

				i roject Manager.	Heisey Brooks	
	Lab Id:	463105-001				
Analysis Requested	Field Id:	MW-1				
Analysis Requested	Depth:					
	Matrix:	WATER				
	Sampled:	May-09-13 12:00				
BTEX by EPA 8021B	Extracted:	May-15-13 14:00				
	Analyzed:	May-16-13 03:50				
	Units/RL:	mg/L RL				
Benzene		ND 0.00100				
Toluene		ND 0.00200				
Ethylbenzene		ND 0.00100				
m_p-Xylenes		ND 0.00200				
o-Xylene		ND 0.00100				
Total Xylenes		ND 0.00100				
Total BTEX		ND 0.00100				
Inorganic Anions by EPA 300/300.1	Extracted:	May-16-13 10:00				
	Analyzed:	May-17-13 00:17				
	Units/RL:	mg/L RL				
Chloride		123 5.00				

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

Kelsey Brooks 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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	Phone	Fax
4143 Greenbriar Dr, Stafford, TX 77477	(281) 240-4200	(281) 240-4280
9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
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	

^{*} Surrogate recovered outside laboratory control limit.



Project ID:

Project Name: L-5 to MF

Work Orders: 463105, 463105

Lab Batch #: 913832 **Sample:** 463105-001 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L Date Analyzed: 05/16/13 03:50	SU	RROGATE RI	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0295	0.0300	98	80-120	

Lab Batch #: 913832 Sample: 638135-1-BLK / BLK Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/15/13 23:44	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	0.0263	0.0300	88	80-120	
4-Bromofluorobenzene	0.0289	0.0300	96	80-120	

Lab Batch #: 913832 Sample: 638135-1-BKS / BKS Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/15/13 23:11	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	0.0335	0.0300	112	80-120	
4-Bromofluorobenzene	0.0311	0.0300	104	80-120	

Lab Batch #: 913832 Sample: 638135-1-BSD / BSD Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/16/13 09:45	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	0.0260	0.0300	87	80-120	
4-Bromofluorobenzene	0.0266	0.0300	89	80-120	

Lab Batch #: 913832 **Sample:** 462995-001 S / MS **Batch:** 1 **Matrix:** Water

Units: mg/L Date Analyzed: 05/16/13 00:00	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	0.0250	0.0300	83	80-120	
4-Bromofluorobenzene	0.0336	0.0300	112	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: L-5 to MF

 Work Orders:
 463105, 463105
 Project ID:

 Lab Batch #:
 913832
 Sample:
 462995-001 SD / MSD
 Batch:
 1
 Matrix: Water

SURROGATE RECOVERY STUDY Units: mg/L **Date Analyzed:** 05/16/13 00:16 True Control Amount BTEX by EPA 8021B **Found** Amount Recovery Limits Flags %R [A] [B] %R [D] **Analytes** 1,4-Difluorobenzene 0.0282 0.0300 94 80-120 4-Bromofluorobenzene 0.0254 0.0300 85 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: L-5 to MF

Batch #: 1

Work Order #: 463105, 463105

Project ID:

Analyst: DYV

Date Prepared: 05/15/2013

Date Analyzed: 05/15/2013

Lab Batch ID: 913832

Chloride

Sample: 638135-1-BKS

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

	Blank Sample Result [A]	Spike Added	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
Analytes		. ,		. ,	[2]		[]				
Benzene	< 0.00100	0.100	0.102	102	0.100	0.0860	86	17	70-125	25	
Toluene	< 0.00200	0.100	0.106	106	0.100	0.0962	96	10	70-125	25	
Ethylbenzene	< 0.00100	0.100	0.106	106	0.100	0.110	110	4	71-129	25	
m_p-Xylenes	< 0.00200	0.200	0.195	98	0.200	0.204	102	5	70-131	25	
o-Xylene	< 0.00100	0.100	0.102	102	0.100	0.0981	98	4	71-133	25	

Analyst: AMB Date Prepared: 05/16/2013 Date Analyzed: 05/16/2013

Lab Batch ID: 914057 Sample: 638301-1-BKS Batch #: 1 Matrix: Water

25.0

< 1.00

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY Units: mg/L Blk. Spk Blank Spike Blank Blank Blank Control Control **Inorganic Anions by EPA 300/300.1** Spike Sample Result Added Spike Spike Spike Dup. RPD Limits Limits Flag Added [A] Result %R Duplicate %R % %R %RPD Result [F] [B] [C] [D] [G] [E] **Analytes**

102

25.0

25.4

25.5

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 102

0

90-110

20



Form 3 - MS Recoveries

Project Name: L-5 to MF



Work Order #: 463105

Project ID: Lab Batch #: 914057 **Date Prepared:** 05/16/2013 Analyst: AMB

Date Analyzed: 05/17/2013 **QC- Sample ID:** 463105-001 S Batch #:

Matrix: Water

Reporting Units: mg/L	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	123	125	243	96	80-120				

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: L-5 to MF



Work Order #: 463105

Project ID:

Lab Batch ID: 913832

QC- Sample ID: 462995-001 S

Batch #:

Matrix: Water

Date Analyzed: 05/16/2013

mg/L

Reporting Units:

Date Prepared: 05/15/2013 **Analyst:** DYV

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B 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	< 0.00100	0.100	0.0899	90	0.100	0.0882	88	2	70-125	25	
Toluene	< 0.00200	0.100	0.0897	90	0.100	0.0817	82	9	70-125	25	
Ethylbenzene	< 0.00100	0.100	0.0992	99	0.100	0.0924	92	7	71-129	25	
m_p-Xylenes	< 0.00200	0.200	0.185	93	0.200	0.168	84	10	70-131	25	
o-Xylene	< 0.00100	0.100	0.0930	93	0.100	0.0893	89	4	71-133	25	

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

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

Belinquished by	Relinquishe	Relinquished by:	Special Ir									L	_AB # (lab use only)	ORDER #:	(lab abo billy)	(lah use o							
ed by:	of by:	ed by:	Special Instructions:								L-AAIM		FIELD CODE		11.31CM	nly)	Sampler Signature: ()				Company Address: P.O. Box 301	Company Name Basin Environmental Service Technologies,	Project Manager: Joel Lowry
Date	Pate	Date //3//3															Ca	0		88260		nental Se	
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Temperature Upon Receipt:	by Sampler/Client Rep. ?	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	Sample Containers Intact? VOCs Free of Headspace?		+	+				, 5			SAR / ESP / CEC		TOTAL:	TCLP:	<u> </u>	:		Bill Southern Union	Lea County, NM		Project Name: L-5 to MF
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XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Date/ Time Received: 05/13/2013 02:50:00 PM

Work Order #: 463105

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

Temperature Measuring device used :

TOIR Older #. +00100		
	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		3
#2 *Shipping container in good condition	on?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shipping c	ontainer/ cooler?	Yes
#5 Custody Seals intact on sample bot	tles?	Yes
#6 *Custody Seals Signed and dated?		Yes
#7 *Chain of Custody present?		Yes
#8 Sample instructions complete on Ch	nain of Custody?	Yes
#9 Any missing/extra samples?		No
#10 Chain of Custody signed when reli	nquished/ received?	Yes
#11 Chain of Custody agrees with sam	ple label(s)?	Yes
#12 Container label(s) legible and intac	et?	Yes
#13 Sample matrix/ properties agree w	ith Chain of Custody?	Yes
#14 Samples in proper container/ bottle	?	Yes
#15 Samples properly preserved?		Yes
#16 Sample container(s) intact?		Yes
#17 Sufficient sample amount for indica	ated test(s)?	Yes
#18 All samples received within hold tir	me?	Yes
#19 Subcontract of sample(s)?		Yes
#20 VOC samples have zero headspace	ce (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with h	HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserved with	NaAsO2+NaOH, ZnAc+NaOH?	Yes
Must be completed for after-hours de	elivery of samples prior to placing	in the refrigerator
Analyst: PH De	evice/Lot#:	
Checklist completed by:	Kmvx Morah	Data: 05/44/2042
Checklist completed by: Checklist reviewed by:	Kelsey Brooks	Date: 05/14/2013
	1	Date: 05/14/2013

Kelsey Brooks

Analytical Report 469766

for Regency Gas

Project Manager: Joel Lowry
L-5 to MF Historical

09-SEP-13

Collected By: Client





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-13-14-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)





09-SEP-13

Project Manager: Joel Lowry

Regency Gas 801 South Loop 464 Monahans, TX 79756

Reference: XENCO Report No(s): 469766

L-5 to MF Historical

Project Address: Lea County, New Mexico

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(s) 469766. 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. 469766 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.

Respectivity,

Kelsey Brooks

Project Manager

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



Sample Cross Reference 469766



Regency Gas, Monahans, TX

L-5 to MF Historical

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	09-03-13 14:30		469766-001



CASE NARRATIVE



Client Name: Regency Gas Project Name: L-5 to MF Historical

Project ID: Report Date: 09-SEP-13 Work Order Number(s): 469766 Date Received: 09/04/2013

Sample receipt non conformances and comments:
Sample receipt non conformances and comments per sample:
None



Certificate of Analysis Summary 469766

Regency Gas, Monahans, TX

Project Name: L-5 to MF Historical



Project Id:

Contact: Joel Lowry

Project Location: Lea County, New Mexico

Draft

Date Received in Lab: Wed Sep-04-13 08:52 am

Report Date: 09-SEP-13

Project Manager: Kelsey Brooks

			 	Project Manager:	Keisey Diooks	
	Lab Id:	469766-001				
Analysis Requested	Field Id:	MW-1				
Anaiysis Kequesieu	Depth:					
	Matrix:	WATER				
	Sampled:	Sep-03-13 14:30				
BTEX by SW 8260B Extracted		Sep-07-13 14:38				
SUB: TX104704215	Analyzed:	Sep-07-13 18:41				
	Units/RL:	mg/L RL				
Benzene		ND 0.00100				
Toluene		ND 0.00100				
Ethylbenzene		ND 0.00100				
m,p-Xylenes		ND 0.00200				
o-Xylene		ND 0.00100				
Total Xylenes		ND 0.00100				
Total BTEX		ND 0.00100				
Inorganic Anions by EPA 300/300.1	Extracted:	Sep-06-13 12:00				
SUB: TX104704215	Analyzed:	Sep-07-13 03:57				
	Units/RL:	mg/L RL				
Chloride		96.4 10.0				

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

Kelsey Brooks 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.
- ** Surrogate recovered outside laboratory control limit.
- **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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	Phone	Fax
4143 Greenbriar Dr, Stafford, TX 77477	(281) 240-4200	(281) 240-4280
9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
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	



Project Name: L-5 to MF Historical

 Work Orders: 469766,
 Project ID:

 Lab Batch #: 922281
 Sample: 469766-001 / SMP
 Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 09/07/13 18:41	SURROGATE RECOVERY STUDY									
BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
•										
Dibromofluoromethane	0.0523	0.0500	105	75-131						
1,2-Dichloroethane-D4	0.0523	0.0500	105	63-144						
Toluene-D8	0.0522	0.0500	104	80-117						
4-Bromofluorobenzene	0.0483	0.0500	97	74-124						

Lab Batch #: 922281 Sample: 643565-1-BLK / BLK Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 09/07/13 14:50	SURROGATE RECOVERY STUDY									
BTEX by SW 8260B		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
	Analytes			[D]							
Dibromofluoromethane		0.0475	0.0500	95	75-131						
1,2-Dichloroethane-D4		0.0503	0.0500	101	63-144						
Toluene-D8		0.0493	0.0500	99	80-117						
4-Bromofluorobenzene		0.0521	0.0500	104	74-124						

Lab Batch #: 922281 Sample: 643565-1-BKS / BKS Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 09/07/13 13:58	SU	SURROGATE RECOVERY STUDY									
BTEX by SW 8260B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags						
Analytes			[D]								
Dibromofluoromethane	0.0516	0.0500	103	75-131							
1,2-Dichloroethane-D4	0.0521	0.0500	104	63-144							
Toluene-D8	0.0499	0.0500	100	80-117							
4-Bromofluorobenzene	0.0508	0.0500	102	74-124							

Lab Batch #: 922281 **Sample:** 469599-001 S / MS **Batch:** 1 **Matrix:** Water

Units: mg/L Date Analyzed: 09/07/13 15:43	SURROGATE RECOVERY STUDY									
BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
Dibromofluoromethane	0.0482	0.0500	96	75-131						
1,2-Dichloroethane-D4	0.0485	0.0500	97	63-144						
Toluene-D8	0.0514	0.0500	103	80-117						
4-Bromofluorobenzene	0.0509	0.0500	102	74-124						

^{*} 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: L-5 to MF Historical

 Work Orders: 469766,
 Project ID:

 Lab Batch #: 922281
 Sample: 469599-001 SD / MSD
 Batch: 1 Matrix: Water

SURROGATE RECOVERY STUDY Units: mg/L **Date Analyzed:** 09/07/13 16:09 True Control Amount BTEX by SW 8260B **Found** Amount Recovery Limits Flags %R [B] %R [A] [D] **Analytes** Dibromofluoromethane 0.0508 0.0500 102 75-131 1,2-Dichloroethane-D4 0.0510 102 0.0500 63-144 Toluene-D8 0.0514 0.0500 103 80-117 4-Bromofluorobenzene 0.0493 0.0500 99 74-124

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



Blank Spike Recovery



Project Name: L-5 to MF Historical

Work Order #: 469766 Project ID:

 Lab Batch #:
 922281
 Sample:
 643565-1-BKS
 Matrix:
 Water

 Date Analyzed:
 09/07/2013
 Date Prepared:
 09/07/2013
 Analyst:
 SAD

Reporting Units: mg/L	BLANK /BLANK SPIKE RECOVERY STUDY								
BTEX by SW 8260B	Blank Result	Spike Added	Blank Spike	Blank Spike %R	Control Limits %R	Flags			
Analytes	[A]	[B]	Result [C]	70 K [D]	70K				
Benzene	< 0.00100	0.100	0.0944	94	66-142				
Toluene	< 0.00100	0.100	0.0933	93	59-139				
Ethylbenzene	< 0.00100	0.100	0.101	101	75-125				
m,p-Xylenes	< 0.00200	0.200	0.204	102	75-125				
o-Xylene	< 0.00100	0.100	0.0969	97	75-125				

 Lab Batch #:
 922267
 Sample:
 643517-1-BKS
 Matrix:
 Water

 Date Analyzed:
 09/06/2013
 Date Prepared:
 09/06/2013
 Analyst:
 RKO

Reporting Units: mg/L BLANK/BLANK SPIKE RECOVERY STUDY Batch #: Blank Spike Blank Blank Control **Inorganic Anions by EPA 300/300.1** Result Added Spike Spike Limits Flags [B] Result %R %R [A] **Analytes** [D] [C] <1.00 100 96.4 90-110 Chloride 96

Blank Spike Recovery [D] = 100*[C]/[B] All results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries

Project Name: L-5 to MF Historical



469766 Work Order #:

Project ID:

Lab Batch ID: 922281 **QC- Sample ID:** 469599-001 S

Batch #:

Matrix: Water

Date Analyzed:

09/07/2013

Date Prepared: 09/07/2013

Reporting Units: mg/L Analyst: SAD

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by SW 8260B	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Benzene	< 0.00100	0.100	0.0930	93	0.100	0.101	101	8	66-142	20	
Toluene	< 0.00100	0.100	0.0892	89	0.100	0.0989	99	10	59-139	20	
Ethylbenzene	< 0.00100	0.100	0.0977	98	0.100	0.108	108	10	75-125	20	
m,p-Xylenes	< 0.00200	0.200	0.199	100	0.200	0.215	108	8	75-125	20	
o-Xylene	< 0.00100	0.100	0.0969	97	0.100	0.110	110	13	75-125	20	

Matrix: Water Lab Batch ID: 922267 **QC- Sample ID:** 469750-001 S Batch #: 1

09/06/2013 **Date Prepared:** 09/06/2013 **Date Analyzed:** Analyst: RKO

Reporting Units: mg/L MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 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
Chloride	101	1000	1070	97	1000	1080	98	1	80-120	20	

922267 **QC- Sample ID:** 469763-003 S Matrix: Water Lab Batch ID: Batch #:

09/07/2013 **Date Prepared:** 09/06/2013 **Date Analyzed:** Analyst: RKO

Reporting Units: mg/L MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 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
Chloride	191	1000	1190	100	1000	1190	100	0	80-120	20	

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

Xenco Laboratories

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

 12600 West I-20 East
 Phone: 432-563-1800

 Odessa, Texas 79765
 Fax: 432-563-1713

Relinquished by:	Relindushed	Relinquished by:		Special I					1		X i				LAB # (lab use only)	ORDER #:		(lab use only)							
něd by:	red by:	ned by:		Special Instructions:										MW-1	FIELD CODE	707	111	only)		Sampler Signature:		City/State/Zip: Lovington	Company Address: P.O. Box 301	Company Name Basin Env	Project Manager: Joel Lowry
Date	9/4/13	9/4/13														1200		0	7000	00 8 77.	2378	Lovington, NM 88260	301	Basin Environmental Service Technologies, LLC	ıry
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20	5	ime		ŀ	\dashv	+		\vdash				+	-	+	TPH: TX 1005 TX 1006	, 56	1		П	m, p	or m	-	Project Loc: Lea County, NM	Project #:	Ct
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Temperature Upon Receipt:	by Sampler/Client Reby Courier?	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	Sample Containers Intact? VOCs Free of Headspace?	Laboratory Comments:	\neg	+								T	Anions (CI, SO4, Alkalinity)		ᆲ			little(×	.: <u>B</u>	<u> </u>	1	Ī
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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Regency Gas

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 09/04/2013 08:52:00 AM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 469766

Temperature Measuring device used :

Sample Receipt Checklist	Comme	nts
)?	12.2	
ood condition?	Yes	
e?	Yes	
shipping container/ cooler?	Yes	
sample bottles?	Yes	
and dated?	Yes	
nt?	Yes	
plete on Chain of Custody?	Yes	
es?	Yes	
d when relinquished/ received?	Yes	
es with sample label(s)?	Yes	
le and intact?	Yes	
es agree with Chain of Custody?	Yes	
ainer/ bottle?	Yes	
erved?	Yes	
act?	Yes	
Int for indicated test(s)?	Yes	
ithin hold time?	Yes	
s)?	Yes	
o headspace (less than 1/4 inch bubble)?	Yes	
erved with HNO3,HCL, H2SO4?	Yes	
served with NaAsO2+NaOH, ZnAc+NaOH?	N/A	
	ood condition? e? shipping container/ cooler? sample bottles? and dated? nt? splete on Chain of Custody? es? d when relinquished/ received? es with sample label(s)? le and intact? es agree with Chain of Custody? ainer/ bottle? erved? sact? int for indicated test(s)? ithin hold time? s)? o headspace (less than 1/4 inch bubble)?	yes e? Yes shipping container/ cooler? yes sample bottles? yes and dated? yes plete on Chain of Custody? es? d when relinquished/ received? yes ses with sample label(s)? yes le and intact? yes ainer/ bottle? yes exerved? yes e

Analyst:

| PH Device/Lot#:

Checklist completed by:	Candade James	Date: 09/05/2013
Checklist reviewed by:	Manage	Date: 09/05/2013
Kelsey Brooks	Candade James	Date: 09/05/2013
Candade James	Date: 09/05/201	

Analytical Report 477213

for Regency Gas

Project Manager: Rachel Johnson L-5 to MF

15-JAN-14

Collected By: Client





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-13-15-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-JAN-14

Project Manager: Rachel Johnson

Regency Gas 801 South Loop 464 Monahans, TX 79756

Reference: XENCO Report No(s): 477213

L-5 to MF

Project Address: NM

Rachel Johnson:

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(s) 477213. 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. 477213 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, Hoah

Kelsey Brooks

Project Manager

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Sample Cross Reference 477213



Regency Gas, Monahans, TX

L-5 to MF

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	01-09-14 10:48		477213-001
MW-1	\mathbf{W}	01-09-14 10:49		477213-002



CASE NARRATIVE



Client Name: Regency Gas Project Name: L-5 to MF

Project ID: Report Date: 15-JAN-14
Work Order Number(s): 477213
Date Received: 01/09/2014

	Sample receipt non conformances and comments:
-	Sample receipt non conformances and comments per sample:
	None



Certificate of Analysis Summary 477213

Regency Gas, Monahans, TX **Project Name: L-5 to MF**



Project Id:

Project Location: NM

Contact: Rachel Johnson

Date Received in Lab: Thu Jan-09-14 03:20 pm

Report Date: 15-JAN-14

Project Manager: Kelsey Brooks

							1 Toject Manager.	Trense j Brooms	
	Lab Id:	477213-	001	477213-00)2				
Analysis Pagyastad	Field Id:	MW-	1	MW-1					
Analysis Requested	Depth:								
	Matrix:	WATE	R	WATER					
	Sampled:	Jan-09-14	10:48	Jan-09-14 10):49				
BTEX by EPA 8021B	Extracted:	Jan-13-14	11:00						
	Analyzed:	Jan-13-14	17:13						
	Units/RL:	mg/L	RL						
Benzene		0.0258	0.00100						
Toluene		ND	0.00200						
Ethylbenzene		0.00344	0.00100						
m_p-Xylenes		0.00444	0.00200						
o-Xylene		ND	0.00100						
Total Xylenes		0.00444	0.00100						
Total BTEX		0.0337	0.00100						
Inorganic Anions by EPA 300/300.1	Extracted:			Jan-13-14 16	5:02				
	Analyzed:			Jan-13-14 16	5:02				
	Units/RL:			mg/L	RL				
Chloride				103	5.00				
TPH By SW8015 Mod	Extracted:	Jan-13-14	10:56						
SUB: TX104704215	Analyzed:	Jan-13-14	13:18						
	Units/RL:	mg/L	RL						
C6-C12 Gasoline Range Hydrocarbons		ND	1.37						
C12-C28 Diesel Range Hydrocarbons		ND	1.37						
C28-C35 Oil Range Hydrocarbons		ND	1.37						
Total TPH		ND	1.37						
						•			

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



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.
- ** Surrogate recovered outside laboratory control limit.
- **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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	Phone	Fax
4143 Greenbriar Dr, Stafford, TX 77477	(281) 240-4200	(281) 240-4280
9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
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	



Form 2 - Surrogate Recoveries

Project Name: L-5 to MF

Units:	mg/L	Date Analyzed: 01/13/14 13:18	SU	RROGATE RE	ECOVERY S	STUDY	
	TPH 1	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes			[2]		
1-Chloroocta	ine		7.57	9.14	83	70-135	
o-Terphenyl			5.21	4.57	114	70-135	

Lab Batch #: 931889 **Sample:** 477213-001 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L Date Analyzed: 01/13/14 17:13 SURROGATE RECOVERY STUDY **Amount** True Control BTEX by EPA 8021B Found Limits Amount Recovery Flags [A] [B] %R %R [D] **Analytes** 1,4-Difluorobenzene 0.0255 0.0300 85 80-120 4-Bromofluorobenzene 0.0284 0.0300 80-120 95

Lab Batch #: 931858 Sample: 649637-1-BLK / BLK Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 01/13/14 12:08 SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	8.09	10.0	81	70-135	
o-Terphenyl	5.56	5.00	111	70-135	

Lab Batch #: 931889 Sample: 649640-1-BLK / BLK Batch: 1 Matrix: Water

Units:	mg/L	Date Analyzed: 01/13/14 16:57	SU	RROGATE RE	ECOVERY S	STUDY	
	ВТЕХ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorober	nzene		0.0256	0.0300	85	80-120	
4-Bromofluorol	benzene		0.0257	0.0300	86	80-120	

Lab Batch #: 931858 Sample: 649637-1-BKS / BKS Batch: 1 Matrix: Water

Units:	mg/L	Date Analyzed: 01/13/14 12:33	SU	RROGATE RI	ECOVERY S	STUDY	
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	ane		9.39	10.0	94	70-135	
o-Terphenyl	1		5.03	5.00	101	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

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

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Project Name: L-5 to MF

 Work Orders: 477213,
 Project ID:

 Lab Batch #: 931889
 Sample: 649640-1-BKS / BKS
 Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 01/13/14 15:37	SU	RROGATE RE	ECOVERY S	STUDY	
]	BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0299	0.0300	100	80-120	
4-Bromofluorobenzen	e	0.0303	0.0300	101	80-120	

Lab Batch #: 931858 Sample: 649637-1-BSD / BSD Batch: 1 Matrix: Water

Units:	mg/L	Date Analyzed: 01/13/14 12:56	SU	RROGATE RI	ECOVERY S	STUDY	
	TPH	I By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooc	etane		9.58	10.0	96	70-135	
o-Terpheny	/1		4.95	5.00	99	70-135	

Units: mg/L Date Analyzed: 01/13/14 16:09 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0294	0.0300	98	80-120	

Units: mg/L	Date Analyzed: 01/13/14 16:25	SURROGATE RECOVERY STUDY									
В	TEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1,4-Difluorobenzene	111111111111111111111111111111111111111	0.0296	0.0300	99	80-120						
4-Bromofluorobenzene		0.0289	0.0300	96	80-120						

Surrogate Recovery [D] = 100 * A / B

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

^{*} Surrogate outside of Laboratory QC limits

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

^{***} Poor recoveries due to dilution



Blank Spike Recovery

Project Name: L-5 to MF



Work Order #: 477213 Project ID:

Lab Batch #:931889Sample: 649640-1-BKSMatrix: WaterDate Analyzed:01/13/2014Date Prepared: 01/13/2014Analyst: JUM

Reporting Units: mg/L Batch #: 1 BLANK /BLANK SPIKE RECOVERY STUDY

	240011 1			ill ittle	OILLI	1021
BTEX by EPA 8021B	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags
Analytes	[A]	[B]	Result [C]	%R [D]	%R	
Benzene	< 0.00100	0.100	0.0905	91	70-125	
Toluene	< 0.00200	0.100	0.0882	88	70-125	
Ethylbenzene	< 0.00100	0.100	0.0910	91	71-129	
m_p-Xylenes	< 0.00200	0.200	0.188	94	70-131	
o-Xylene	< 0.00100	0.100	0.0948	95	71-133	



BS / BSD Recoveries



Project Name: L-5 to MF

Work Order #: 477213 Project ID:

Analyst: AMB Date Prepared: 01/13/2014 Date Analyzed: 01/13/2014

Lab Batch ID: 931977 **Sample:** 649635-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[A]	[B]	Result [C]	%R [D]	[E]	Duplicate Result [F]	%R [G]	%	%R	%RPD	
Chloride	<1.00	25.0	22.9	92	25.0	23.1	92	1	90-110	20	

Analyst: FOV Date Prepared: 01/13/2014 Date Analyzed: 01/13/2014

Lab Batch ID: 931858 Sample: 649637-1-BKS Batch #: 1 Matrix: Water

Units: mg/L 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	<1.50	100	108	108	100	119	119	10	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<1.50	100	83.4	83	100	88.9	89	6	70-135	25	

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: L-5 to MF



Work Order #: 477213

Project ID: Lab Batch #: 931977

Date Analyzed: 01/13/2014 **Date Prepared:** 01/13/2014 Analyst: AMB **QC- Sample ID:** 477208-001 S **Batch #:** 1 Matrix: Water

Reporting Units: mg/L	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	60.6	125	183	98	80-120					

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: L-5 to MF

Work Order #: 477213 Project ID:

Lab Batch ID: 931889 **QC- Sample ID:** 477213-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 01/13/2014 Date Prepared: 01/13/2014 Analyst: JUM

Reporting Units: mg/L MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Benzene	0.0258	0.100	0.112	86	0.100	0.115	89	3	70-125	25	
Toluene	< 0.00200	0.100	0.0912	91	0.100	0.0925	93	1	70-125	25	
Ethylbenzene	0.00344	0.100	0.0989	95	0.100	0.0998	96	1	71-129	25	
m_p-Xylenes	0.00444	0.200	0.201	98	0.200	0.203	99	1	70-131	25	
o-Xylene	< 0.00100	0.100	0.0991	99	0.100	0.0997	100	1	71-133	25	

Environmental Plus, Inc.

Chain of Custody Form

Relinquished by: Times: 48 Times: 48 Delivered by: Times: 48 Times: 48	7-14 Received By:	10	9 8		6	OT	4	3	2 MW-1 G 1 X X	477213 1MW-1 G 4 X X X	(G)RAB OR (C)OMF # CONTAINERS GROUND WATER WASTEWATER SOIL CRUDE OIL SLUDGE OTHER: ACID/BASE ICE/COOL	MATRIX PRESERV.	EPI Sampler Name Kirby Bingham	Project Reference	Location	Facility Name L-5 to MF	Client Company Regency	EPI Phone#/Fax# 575-394-3481 / 575-394-2601	City, State, Zip Eunice New Mexico 88231 rachel.johnson@re		EPI Project Manager Daniel Dominguez	Company Name Environmental Plus, Inc. Bill To	(575) 394-3481 FAX: (575) 394-2601
	E-mail results to: ddominguezepi@gmail.com & rachel.johnson@regencygas.com								09-Jan-14 10:49	09-Jan-14 10:48	DATE	SAMPLING							gencygas.com	Johnson		0	
	@gma	Н	\vdash	+	+	┝			9	8 ×	BTEX 8021B												
	il.com	\vdash	+	+	+	+	H	H	H	×	TPH 8015M						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
	δο Σ	П	\forall	十	\dagger	t	T		×		CHLORIDES (CI ⁻)											\	
	che	П		十	T	t	T				SULFATES (SO ₄ =)											ANALYSIS REQUEST	
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XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Regency Gas

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

Date/ Time Received: 01/09/2014 03:20:00 PM

Temperature Measuring device used:

Work Order #: 477213

Sa	ımple Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	7.3	
#2 *Shipping container in good condition?	N/A	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container	/ cooler? N/A	
#5 Custody Seals intact on sample bottles?	N/A	
#6 *Custody Seals Signed and dated?	N/A	
#7 *Chain of Custody present?	Yes	
#8 Sample instructions complete on Chain of C	ustody? Yes	
#9 Any missing/extra samples?	No	
#10 Chain of Custody signed when relinquishe	d/ received? Yes	
#11 Chain of Custody agrees with sample labe	(s)? Yes	
#12 Container label(s) legible and intact?	Yes	
#13 Sample matrix/ properties agree with Chair	n of Custody? Yes	
#14 Samples in proper container/ bottle?	Yes	
#15 Samples properly preserved?	Yes	
#16 Sample container(s) intact?	Yes	
#17 Sufficient sample amount for indicated test	(s)? Yes	
#18 All samples received within hold time?	Yes	
#19 Subcontract of sample(s)?	Yes	
#20 VOC samples have zero headspace (less	than 1/4 inch bubble)? Yes	
#21 <2 for all samples preserved with HNO3,H	CL, H2SO4? Yes	
#22 >10 for all samples preserved with NaAsO	2+NaOH, ZnAc+NaOH? N/A	

Must be o	completed for after-hours de	elivery of samples prior to placing in	n the refrigerator
	Checklist completed by:	Kunz Moah Kelsey Brooks	Date: 01/10/2014
	Checklist reviewed by:	Mmy Moah Kelsey Brooks	Date: 01/10/2014

Analytical Report 480359

for Regency Gas

Project Manager: Joel Lowry L5 to MF Historical SUG 0009

06-MAR-14

Collected By: Client





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054) New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

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-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)





06-MAR-14

Project Manager: Joel Lowry

Regency Gas 801 South Loop 464 Monahans, TX 79756

Reference: XENCO Report No(s): 480359

L5 to MF Historical SUG 0009 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(s) 480359. 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. 480359 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, Hoah

Kelsey Brooks

Project Manager

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Sample Cross Reference 480359



Regency Gas, Monahans, TX

L5 to MF Historical SUG 0009

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	\mathbf{W}	02-28-14 11:00		480359-001



CASE NARRATIVE



Client Name: Regency Gas
Project Name: L5 to MF Historical SUG 0009

Project ID: Report Date: 06-MAR-14
Work Order Number(s): 480359 Date Received: 02/28/2014

Sample receipt non conformances	and comments:	
Sample receipt non conformances	and comments per sample:	
None		



Project Id:

Certificate of Analysis Summary 480359

Regency Gas, Monahans, TX





Contact: Joel Lowry
Project Location: Lea County, NM

icai SUG 0009

Date Received in Lab: Fri Feb-28-14 03:40 pm

Report Date: 06-MAR-14

Project Manager: Kelsey Brooks

				 Project Manager:	Keisey Blooks	
	Lab Id:	480359-001				
Analysis Requested	Field Id:	MW-1				
Analysis Kequesiea	Depth:					
	Matrix:	WATER				
	Sampled:	Feb-28-14 11:00				
BTEX by EPA 8021B	Extracted:	Mar-03-14 15:00				
	Analyzed:	Mar-04-14 13:49				
	Units/RL:	mg/L RL				
Benzene		ND 0.00100				
Toluene		ND 0.00200				
Ethylbenzene		ND 0.00100				
m,p-Xylenes		ND 0.00200				
o-Xylene		ND 0.00100				
Total Xylenes		ND 0.00100				
Total BTEX		ND 0.00100				
Inorganic Anions by EPA 300/300.1	Extracted:	Mar-04-14 02:19				
	Analyzed:	Mar-04-14 02:19				
	Units/RL:	mg/L RL				
Chloride		117 10.0				
			•		•	

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

Kelsey Brooks 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 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.
- ** Surrogate recovered outside laboratory control limit.
- 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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	Phone	Fax
4143 Greenbriar Dr, Stafford, TX 77477	(281) 240-4200	(281) 240-4280
9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
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	



Form 2 - Surrogate Recoveries

Project Name: L5 to MF Historical SUG 0009

Units:	mg/L	Date Analyzed: 03/04/14 13:49	SU	RROGATE RE	ECOVERY S	STUDY	
BTEX by EPA 8021B Analytes		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
	1	Analytes			[D]		
1,4-Difluoro	benzene		0.0274	0.0300	91	80-120	
4-Bromofluo	orobenzene		0.0268	0.0300	89	80-120	

Lab Batch #: 935419 Sample: 651907-1-BLK / BLK Batch: 1 Matrix: Water

Units:	mg/L	Date Analyzed: 03/04/14 08:44	04/14 08:44 SURROGATE RECOVERY STUDY								
BTEX by EPA 8021B Analytes 1,4-Difluorobenzene		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1,4-Difluorol	benzene		0.0279	0.0300	93	80-120					
4-Bromofluo	robenzene		0.0279	0.0300	93	80-120					

Lab Batch #: 935419 Sample: 651907-1-BKS / BKS Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 03/04/14 09:00 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0308	0.0300	103	80-120	
4-Bromofluorobenzene	0.0321	0.0300	107	80-120	

Lab Batch #: 935419 Sample: 651907-1-BSD / BSD Batch: 1 Matrix: Water

Units:	mg/L	Date Analyzed: 03/04/14 09:16	SURROGATE RECOVERY STUDY								
	ВТІ	EX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1,4-Difluoro	benzene		0.0301	0.0300	100	80-120					
4-Bromoflu	orobenzene		0.0317	0.0300	106	80-120					

Units: mg/L D	ate Analyzed: 03/04/14 09:32	SURROGATE RECOVERY STUDY							
BTEX by I		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1,4-Difluorobenzene	<i>y</i> •••	0.0301	0.0300	100	80-120				
4-Bromofluorobenzene		0.0320	0.0300	107	80-120				

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

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

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Project Name: L5 to MF Historical SUG 0009

 Work Orders: 480359,
 Project ID:

 Lab Batch #: 935419
 Sample: 480361-002 SD / MSD
 Batch: 1 Matrix: Water

Units: Date Analyzed: 03/04/14 09:48 mg/L SURROGATE RECOVERY STUDY Amount True Control BTEX by EPA 8021B Found Amount Limits Flags Recovery [A] [B] %R %R [D] **Analytes** 1,4-Difluorobenzene 0.0301 0.0300 100 80-120 4-Bromofluorobenzene 0.0318 0.0300 106 80-120

Surrogate Recovery [D] = 100 * A / B

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

^{*} 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: L5 to MF Historical SUG 0009

Work Order #: 480359 Project ID:

Analyst: ARM **Date Prepared:** 03/03/2014 **Date Analyzed:** 03/04/2014

Lab Batch ID: 935419Sample: 651907-1-BKSBatch #: 1Matrix: Water

Units: mg/L BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B 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
Benzene	<0.00100	0.100	0.103	103	0.100	0.0987	99	4	70-125	25	
Toluene	< 0.00200	0.100	0.101	101	0.100	0.0971	97	4	70-125	25	
Ethylbenzene	< 0.00100	0.100	0.106	106	0.100	0.102	102	4	71-129	25	
m,p-Xylenes	< 0.00200	0.200	0.218	109	0.200	0.212	106	3	70-131	25	
o-Xylene	< 0.00100	0.100	0.111	111	0.100	0.108	108	3	71-133	25	

Analyst: AMB **Date Prepared:** 03/03/2014 **Date Analyzed:** 03/03/2014

Lab Batch ID: 935550 **Sample:** 651848-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 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	<1.00	25.0	26.3	105	25.0	25.7	103	2	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



Form 3 - MS Recoveries

Project Name: L5 to MF Historical SUG 0009



Work Order #: 480359

Lab Batch #: 935550 Project ID:

 Date Analyzed:
 03/03/2014
 Date Prepared: 03/03/2014
 Analyst: AMB

 QC- Sample ID:
 480355-001 S
 Batch #: 1
 Matrix: Water

Reporting Units: mg/L

Reporting Units: mg/L	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	1350	1250	2830	118	80-120		

Lab Batch #: 935550

 Date Analyzed:
 03/03/2014
 Date Prepared: 03/03/2014
 Analyst: AMB

 QC- Sample ID:
 480358-001 S
 Batch #: 1
 Matrix: Water

Reporting Units: mg/L

keporting Units: mg/L	MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag	
Analytes	[A]	[B]					
Chloride	1220	1250	2700	118	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



Form 3 - MS / MSD Recoveries



Project Name: L5 to MF Historical SUG 0009

Work Order #: 480359 Project ID:

Lab Batch ID: 935419 **QC- Sample ID:** 480361-002 S **Batch #:** 1 **Matrix:** Water

Reporting Units: mg/L MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

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]	[6]	[D]	[E]	Result [1]	[G]	,•	/ U K	/UKI D	
Benzene	< 0.00100	0.100	0.0938	94	0.100	0.0963	96	3	70-125	25	
Toluene	< 0.00200	0.100	0.0925	93	0.100	0.0945	95	2	70-125	25	
Ethylbenzene	< 0.00100	0.100	0.0976	98	0.100	0.0995	100	2	71-129	25	
m,p-Xylenes	< 0.00200	0.200	0.202	101	0.200	0.206	103	2	70-131	25	
o-Xylene	< 0.00100	0.100	0.102	102	0.100	0.105	105	3	71-133	25	

Xenco Laboratories

12600 West I-20 East CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST Phone: 432-563-1800

Relinquished by: Special Instructions: (lab use only) Relinquished by: ORDER #: Company Address: Sampler Signature: City/State/Zip: Project Manager: Company Name Telephone No: FIELD CODE P.O. Box 301 (575)396-2378 Lovington, NM 88260 Basin Environmental Service Technologies, Joel Lowry Date Beginning Depth Time Ime **Ending Depth** Received by ELOT: LLC Date Sampled このこ 00 Time Sampled Fax No: Marker. e-mail: Field Filtered R. Johnson, C. Callaway, J. Lowry Total #. of Containers (575)396-1429 Odessa, Texas 79765 HNO₃ HCI H₂SO₄ NaOH Na₂S₂O₃ 34-14 None Other (Specify) DW = Drinking Water SL = Sludg Report Format: GW = Groundwater S=Soil/So Project Name: 65 71.5 NP = Non-Potable Specify Oth Project Loc: Lea County, NM Time 418.1 8015M Project #: TX 1005 TX 1006 PO #: Labels on container(s)
Custody seals on cooler(s)
Custody seals on cooler(s) Sample Hand Delivered Sample Containers Intact? Temperature Upon Receipt: VOCs Free of Headspace? Laboratory Comments: Cations (Ca, Mg, Na, K) X Standard by Sampler/Client Rep. ? by Courier? UPS I Anions (CI, SO4, Alkalinity) SUG TCLP: SAR / ESP / CEC egancy Metals: As Ag Ba Cd Cr Pb Hg Se Analyze Volatiles Semivolatiles For BTEX 8021B/5030 or BTEX 8260 TRRP RCI N.O.R.M. CHLORIDES NPDES ZZZZZZZ റ് RUSH TAT (Pre-Schedule) 24, 48, 72 hrs Standard TAT 4 DAY

LAB # (lab use only)



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Regency Gas

Date/ Time Received: 02/28/2014 03:40:00 PM

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

Work Order #: 480359

Temperature Measuring device used :

	30359 Temperatu	remperature measuring acrice asea.		
	Sample Receipt Checklis	t Comments		
#1 *Temperature	of cooler(s)?	4		
#2 *Shipping conta	ainer in good condition?	Yes		
#3 *Samples recei	ved on ice?	Yes		
#4 *Custody Seals	intact on shipping container/ cooler?	Yes		
#5 Custody Seals	intact on sample bottles?	Yes		
#6 *Custody Seals	Signed and dated?	Yes		
#7 *Chain of Cust	ody present?	Yes		
#8 Sample instruc	tions complete on Chain of Custody?	Yes		
#9 Any missing/ex	tra samples?	No		
#10 Chain of Cust	ody signed when relinquished/ received?	Yes		
#11 Chain of Cust	ody agrees with sample label(s)?	Yes		
#12 Container lab	el(s) legible and intact?	Yes		
#13 Sample matri	x/ properties agree with Chain of Custody?	Yes		
#14 Samples in pr	oper container/ bottle?	Yes		
#15 Samples prop	erly preserved?	Yes		
#16 Sample conta	iner(s) intact?	Yes		
#17 Sufficient sam	ple amount for indicated test(s)?	Yes		
#18 All samples re	eceived within hold time?	Yes		
#19 Subcontract c	f sample(s)?	No		
#20 VOC samples	have zero headspace (less than 1/4 inch bubble)?	Yes		
#21 <2 for all sam	ples preserved with HNO3,HCL, H2SO4?	Yes		
	nples preserved with NaAsO2+NaOH, ZnAc+NaOH?	Yes		



APPENDIX D

Manifests

54.6.5. MF-16" X L-5 2009-008 3-23-09

4- Londs To CELL # 6

OCOTILLO ENVIRONMENTAL, LLC

The State of the same				
HOURS WORK!	10_ 10	2.5	PER HOUR S	
TRICKER	C.L. CARVER	121 1 14		
ADDRESS			K. L. #1107	DATE 3-23-00
	7.5			
COMPANY	5.4.6.5.			
PHOUNER L				
L. OR SEE Z,	AND FARM	· C F	48 84.5	(1.07%)
ADDRESS			2000 Av 10 Av 20	A.,
11.01(2.33		PATER		
2 3 1 5	6 1 8 9 10 1 2 13 14	5 16 17 18 19 20 21 22		
XXXX	6 1 8 9 10 1 2 13 14	0 20 21 22	23 24 25 26 27 28 29 30	RATE LOADS TOTAL
				4

5.4.6.5. MF-16" X 1-5 2009-008 3-23-09

4-LOADS TOCELL#6

OCOTILLO ENVIRONMENTAL, LLC

HOLRS WORK	TD_	10	4 5		200	RHOLRS		
TRICKER	4.	Combs		12:00	MP IRU	*1108		2
ADDRESS							-75 E	3-23-
COMPANY	5,	4.6.5.						
PIT OWNER	LANd	FARM		11142.0	. 48	K 2 . t	1 11 4	
ADDRESS _				PAIR				
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54.6.5. MFX 6.5 CROSS-OVER 2009-008 3-24-09

7 - LOAds To CELL#6

OCOTILLO ENVIRONMENTAL, LLC

OCOTILLO ENVIRONMENTAL, LLC.	TILLO ENVIRONMENTAL, LLC	
HOURS WORKED	⊒ K PER HC	
4200 ES L. Combs 1210 D. MP IRCK 1108 DATE 3-24-09	//2/10 DEMPTROOK	
COMPANY SU.65.		
ADDRESS SATE PAD SE NO	10 A_ 10 84 R.	
X X X X X X X	3 14 15 16 11 18 19 20 21 22 23 24 25 26 2	

5.4.6.5. MF X L'S X-OVER 2009-008 3-24-09

onds to call #6

5.4.6 S. M.F X L-5 X-OVER 2009-068 3-25-09 6- LOADS TO CELLAG

OCUTILLO ENVIRONMENTAL. LLC

TRUCKER	PER H	OUR \$
COMPANY		
PITOWNER LAND FARIN	PATE PAID	CK MO
Xyy y xx	4 5 6 7 15 19 30 31 27 31 31 37	

5.4.6.5. MFXL-5,X-OVER 2009-008 3-25-09 6-LOADS TO CELL#6

OCOTILLO ENVIRONMENTAL, LLO

	V. I.I.
HOURS WORKED	PER HOUR #
TRUCKER _ L- Com	PER HOUR #
ADDRESS	PER HOUR #
COMPANY 54.6.5	
PITOWNER LAND FARM	
ADDRESS	TOTAL YDS 72 RATETOTAL
	PATE PAIDCK NO
XVXXXX	2 '3 '4 '5 '6 '" '8 '9 20 21 22 23 24 25 26 21 28 29 30 RATE CADE TOTA
	6

54.6 S. MF X L.S., X-OVER 2009-008 3-26-09 6-LORDS TO CELL#6

OCOTILLO ENVIRONMENTAL LA

1.4.1	THELO ENTRONMENTAL, LLC
HOURS WORKED	PER HOUR #
TRUCKER _ L. COMBS	12YD DUMP TRUCK 1108 DATE 3-26-09
ADDRESS	7100 YAIE 3 28-09
COMPANY	
PITOWNER LAND FARM	TOTAL YDS 72 RATE TOTAL
AUDRESS	DATE PAID CK MO
XY XY XX	15 4 15 16 11 18 19 20 21 22 23 24 25 26 21 28 29 30 RATE LOADS TOTAL
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5.4.6.5. MF X 1.5, X-OVER 2009-008 3-26-09 6- LOADS TO CELLEGE

OCOTILLO ENVIRONMENTAL. LLC

HOURS WORKED	PER HOUR #
TRUCKER CL. CARVER	12YD DUMPTRUCK*107 DATE 3-26-09
ADDRESS	
COMPANYSUG.S.	
PITOWNER LAND FARM	TOTAL YDS_ZZ_RATETOTAL
ADDRESS	DATE PAIDCK NO
2 3 4 5 5 7 5 5 10 2 10 2 10 2 10 2 10 2 10 2 10 2	5 '4 5 '6 " 18 19 20 21 22 23 24 25 26 21 28 29 30 RATE _CADS TOTA_
	6

SU.G.S. M-F X L-5, X-OVER 2009-008 3-27-09

5- LOAds To CELL #6

HOURS WORKED9	PER HOUR \$	4
TRUCKER _ L. Combs	12YD DUMPTRUCK#108	DATE 3-27-09
ADDRESS		
COMPANY 54.6.5.		
PITOWNER LAND FARM	TOTAL YDS_60_RATE_	TOTAL
ADDRESS	PATE PAID	_CK NO
XV Y Y X	4 -5 -6 -7 -18 -9 20 21 22 23 24 25 26 27 26 29	30 RATE LOADS TOTAL
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5.4. 6. 8 M-F X L-5, X OVER 2009-008 3-27-09

5-Loads TOCELL#6

OCOTILLO ENVIRONMENTAL, LLC

HOURS WORKED9		#
TRUCKER C.L. CARVER	12YD DUMPTRUCK 1107	DATE 3-27-09
ADDRESS		
COMPANYS4.6. S.		
PITOWNER LAND FARM	TOTAL YDS 60 RATE	TOTAL
ADDRESS	PATE PAID	_CK NO
XXXXXX	5 16 17 18 19 20 21,22 23 24 25 26 21 28 29	30 RATE LOADS TOTAL

5.4.6.5. MFXL-5 2009-068 3-30-09 6-608ds To CELL #6

OCOTILLO ENVIRONMENTAL. LLC

HOURS WORKED	PER HOUR #
TRUCKER L- COM	105 1240 DUMPTRUCK 1/08 DATE 3-30-09
ADDRESS	7/00 JAIL 3-30-04
COMPANYSU.6.5	5.
PITOWNER LAND FAM	RM TOTAL YDS_72 RATETOTAL
ADDRESS	DATE PAIDCK NO
109-008 X X X	2 15 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 RATE .CADS TOTAL
	3
004-008-4XXX	3
The state of the s	

54.65. M.F.Y.L.57 t-OVER 2009-008 4-9-09 4-LOADS TO CELL #9

DEOTTELO ENVIRONMENTAL, LLC

HOURS WORKED 9	PER HOUR 1	*
TRUCKER CL. CARVER		
ADDRESS		
COMPANY _ 5465		
PITOWNER LAND FARM	TOTAL YDS 48 RATE	TOTAL
ADDRESS		
XVXX	5 -6 -1 -8 -9 20 21 22 23 24 25 26 21 28 25	30 RATE LOADE TOTAL

546.5 MFXL-5, +-OVEA 2009-008-A 3-31-09

6-LOADS TO CELL #6

ON OTHLIO ENVIRONMENTAL, LLC

	ALL LL	
HOURS WORKED	PER HOUR #	
TRUCKER _ C.L. CARVER	12YD DUMPTRUCK	107 DATE 3-31-09
ADDRESS		JA 12 3-31-09
COMPANY 5.U.G.S.		
PITOWNER_ LAND FARM	TOTAL YDS TOTAL	TE TOTAL
ADDRESS	PATE PAID	CK NO
XXXXXXX	5 -6 -7 -8 19 20 21 22 23 24 25 26 27	28 29 30 RATE LOADS TOTAL
		6

5,46.3. M-FXL-5 +-0VEQ 2009-008-A 3-31-09 6-60005 TO CELL #6

OCOTILLO ENVIRONMENTAL, LLC

The same and the s	
HOURS WORKED	PER HOUR #
TRUCKER L. COMPS	13YD DUMPTRUCK*1108 DATE 3-31-09
ADDRESS	VA 1E 3-31-09
COMPANY _S.U.G.S.	
PITOWNER LAND FARM	TOTAL YDS_72 RATETOTAL
ADDRESS	PATE PAIDCK NO
XXXXXX	4 15 16 17 18 19 20 21 22 23 24 25 26 21 28 29 30 RATE LOADS TOTAL
	6

5.4.6.5. M-F X L-5, +- OVER. 2009-008 4-1-09 4- LOADS TO CELLEG

ON OTTLE O ENVIRONMENTAL LE

	THE TALL LE
HOURS WORKED	PER HOUR \$
COMPANY 5.4.6.5.	
	TOTAL YDS 48 RATETOTAL
XVXX	CK NO

54.68 M-FXL-5, +-OVER 2009-008 4-1-09 4-LOADS TO CELL#6

DOUBLED ENVIRONMENTAL, LLC

HOURS WORKED	PER HOUR #
COMPANY	
XXXX	5 '6 " '8 '9 20 21, 22 23 24 25 35 21 28 29 30 RATE SADE TOTAL

5.4.6.5 M-FXL-5, +-OVER 2009-008 4-2-09 6-LORDS TO CELL #6

OCOTILLO ENVIRONMENTAL. LLO

HOURS WORKED 10 TRUCKER CL. CAR ADDRESS	VER 12YD DUMPTRUCK #1/107 DATE
COMPANY S.U. 6-	5.
PITOWNER LOND FAR. ADDRESS	PATE PAID
XXXXXX	2 '5 '4 '5 '6 '7 8 '9 20 21 22 23 24 25 % 27 28 29 30 RATE DADE TOTAL

54.6.5. M-FX L-5, +-OVER 2009-008 4-2-09

6-LOADS TO CELL #6

OCOTILLO ENVIRONMENTAL. ELC

HOURS WORKED		
TRUCKER L. Combs		HOUR \$
COMPANY _ 54.6.5		
PITOWNER LAND FARM	TOTAL YDS_72,	BATETOTAL
1011-2		CK NO
XYXXXX	3 6 18 19 20 21 22 23 24 25 26	21 28 29 30 RATE LOADS TOTAL
		6
The same of the sa		

54.6.5. MFXL-5, +-OVER 2009-008 4-3-09 5-LOADS TOCELL#6

OCOTILLO ENVIRONMENTAL. LLC

HOURS WORKED	PER HOUR #
TRUCKER CL. CARVE	ER 12YD DUMPTRUCK DATE 4-3-09
ADDRESS	1107 VA 1E 4-3-09
COMPANY	
PITOWNER_LAND FARM	TOTAL YDS 60 RATE TOTAL
ANNESS	PATE PAID CK NO
PRODE 1 2 3 4 5 6 7 8 5 15 15	2 13 14 15 16 11 18 19 20 21 22 23 24 25 X 21 28 29 30 RATE LOADE TOTAL
	5

54.69 M.F.XL.5, +-OVER 2009-008 4-3-09 5-LOADS TO CELL#6

OCOTILLO ENVIRONMENTAL LL

	TILLO ENTRONMENTAL, LLC
HOURS WORKED 10 TRUCKER 4- COMB	S /2YD DUMPTRUCK*/108 DATE 1/2 2 20
COMPANY SU. G. S.	
110011203	TOTAL YDS 60 RATE TOTAL
XXXXX	5 '4 '5 '6 '' '8 '9 20 21,22 23 24 25 26 21 28 29 30 RATE . DADE TOTA.

54.6.5, M.FX L.5, +-OVER 2009-008 4-6-09 6-LORDS TO OFILE #8

WALES A COLOR

· * OIII 1	U ENVIRONMENTAL. LLC
HOURS WORKED 10 TRUCKER C.L. CARVER	PER HOUR \$
COMPANY	
TIPPICES	TOTAL YDSRATETOTAL PATE PAIDCK_MO
XYYXXX	

5.4.6-5. M-FX 4-5, +-0VER 2009-008 4-9-09 4- LOAds To CELL# 1

- A OTHER	1 SACIRONMENTAL. I.E.C.
HOURS WORKED 9	PER HOUR #
FIXON	
ADDRESS	110 VAIE 4- 7-09
COMPANY 54.6-8-	
PITOWNER_ LAND FARM	TOTAL VDS 48 PATE
TIP PILESS	PATE PAID
2 3 1 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
	4
44. 25	5.4.6.S. XL-5, +-OVER
20	X L-5, +-0VER 09-008
10-60Ads	-09 CLBBN SOIL FROM DECK PIT
3-601169	to cell#9
THICK) FAVIROAMENTAL. LLC
HOURS WORKED	PER HOUR #
TRUCKER C.L. CARVED	12YD DUMPTRUCK# 1107 DATE 4-8-09
ADDRESS	DATE 4-8-09
COMPANYSU.G.S.	
PITOWNER DECK ESTATE	TOTAL YDS_120 RATETOTAL
ADDRESS	TOTALTOTAL PATE PAIDCK NO
-	CK NO

OMTAM. XXX

11-LOADS TO CELL #7 MOTILION SOIL FROM DECK PIT 2-LOADS TO CELL #7 MOTILION SOIL FROM DECK PIT

TAL YDS_132_RATETOTAL ITE PAIDCK_NO
TAL YDS_132 RATETOTAL
CK NO
19 20 21 72 23 24 25 36 27 28 29 30 RZ TE LDADE TOTAL 132 yds
1 132 yds 2 24 yds Tocell # 1
2 24yds Tocell # 1

54.65. MFXL-5, +-OVER 2009-008 4-13-09 + +- OVBR 6-60Ads TO CELL #8 :44 1 OF OTHER OSSISTANCE LEG DAMENTALLLE PER HOUR #_ PER HOUR #__ TRUCKER CL. CARVER 12YD DUMPTRUCK# 1107 DATE 4-13-09 D DUMPTRUCK 1108 DAT ADDRESS __ COMPANY _ 54.6.5. PITOWNER LANG FARM TOTAL YDS >2 RATE TOTAL AL YDS 72 RATE____TO ADDRESS _____CK NO ____ E PAID _____CK MC 9 20 21 22 25 24 25 26 21 26 29 30 94 75

5.4.6.5. M.F.X.L-5, +-0ves 2009-008 4-14-09 6- Loads To CELL # 07

OCOTILLO ENVIRONMENTAL, LLC

HOURS WORKED	PER HOUR \$	DATE 4-14-09
COMPANY 5.4.6.5.		
PITOWNER LAND FARM	PATE PAID	CK NO
XXXXXX	6 5 6 11 6 19 20 21 22 23 24 25 26 27 26 29 3	O RATE LOADS TOTAL

\$46.5. M-FXC-5, Y-OVER 2009-008 4-14-09

6- LOADS TO CELL #1

	OF STRONGE STALL LLC	
HOURS WORKED 10	PER HOUR #	
TRUCKER C.L. CARVER	12YD DUMPTRUCK 1107	DATE 4-14-09
COMPANY _S.U.G.S.		
PITOWNER LAND FARM	TOTAL YDS 72 RATE	TATA
WANTESS	PATE PAID	CK NO
XXXXXX	5 16 11 18 19 20 21 22 23 24 25 26 21 28 29 3	RATE LOADS TOTAL

54.63. M.F.X L-5, + -OUBA 2009-00/8 4-15-09 6-LOADS TO CELL#9

OCOTILLO ENVIRONMENTAL. LLC

HOURS WORKED	PER HOUR #	
COMPANY 54.6.5.		
TOURESS	TOTAL YDS_72_RATETOTAL PATE PAIDCK_MO	
XXXXXX	4 5 6 1 8 19 20 21 22 23 24 25 % 21 28 29 30 RATE DADE TOTAL	

54.65. M-FXL-5, +-OVER 2009-008 4-15-09 6-LOADS TO CELL#1

ON OTHER DESNIROSMESTAL, LEG

HOURS WORKED 10 TRUCKER E. DIXON ADDRESS	12YD DUMPTRUCK 1/08 DATE 4-15-0
COMPANY _ S4.6.S.	
AUDRESS	TOTAL YDS_72_RATETOTAL PATE PAIDCK_MO
XXXXXX	5 '6 ' ' -8 '9 20 21 ZZ 22 24 25 XZ 2" 28 29 30 FATE LOADS TOTAL
Manager and the second	

54.6.8. MF. XL.5, +-OVER 2009-008 4-16-09 2-608 To CELL#9

OF OTHER DESSEROSMENT ALLELE

HOURS WORKED 3	PER HOUR \$
TRUCKER _ CL. CARVER	/AYD DUMPTRUCK //OT DATE 4-16-09
ADDRESS	1107 VAIE 4-18-09
COMPANY 54.6.5	
PITOWNER_LAND FARM	TOTAL YDS 36 RATETOTAL
ADDRESS	TOTALTOTAL
	PATE PAIDCK NO
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	the second secon

54.6,5 M-FXL-5 +-OVER 2009-008 4-16-09 1-LOAD TO CELL#9

PROTILLO ENVIRONMENTAL LA

	The supplied of the state of th
HOURS WORKED 2 TRUCKER	/2 YD DUMPTRUCK /// S DATE WALL
COMPANY	
TIP PILESS	TOTAL YDS_Z&_RATETOTAL
X 2 3 4 6 7 8 3 7 3 4	CK MO

54.6-8. M-FXL-5, +-OVER 2009-008 4-17-09 5-LORDS TO CELL#9

OCOTILLO ENVIRONMENTAL. LLC.

Andrew Control of the		
HOURS WORKED	PER H	tour #
TRUCKER L. Combs	12YD DUMPTRUCK	A.
ADDRESS	- January Mack	1108 DATE 4-17-09
COMPANY		
PITOWNER LAND FARM	TOTAL VDS 60 P	AFE to
ADDRESS	PATE PAID	MIETOTAL
XXXXX	'4 '5 '6 ' 'E '9 20 21 22 23 24 25 26	2" 28 29 30 RATE CADS TOTA
		5
Marine and the Company of the Compan		

5.4.6.5 MFXL5, +-OVER 2009-008 4-17-09 5-LONDS TO CELLEG

PROTILLOFANTRONMENTALLILE

20.0	THE THE TROOME STALL LLC
HOURS WORKED	IZYD DUMPTRUCK#
COMPANY 546.S.	
PITOWNER LAND FARM	TOTAL YDS 60 RATE TOTAL
XXYYX	CK NO

5.4.6.5. M.F.XL-5, t-0 VER 2009.008 4-20-09 5-60Ads to cell#9

OCOTILLO ENVIRONMENTAL LLA

	TO CAME ALAL TIC	
HOURS WORKED 10 TRUCKER 1. Combs ADDRESS	PER HOUR \$	20-0
COMPANY _ S.U.G.S		
PITOWNER LAND FARM ADDRESS	TOTAL YDS 60 RATE TOTAL _	
	5 16 11 18 19 20 21 22 23 24 25 26 27 28 29 30 RATE DADE	
		-

54,6.5. M.F. XL-5, +-OVER 2009-068 4-20-09 6-608ds To CELL#9

ON OTHLO ENVIRONMENTAL LL

27.11	THE OF THE STALL ILL
HOURS WORKED	PER HOUR #
TRUCKER _ CL. CARVER	12-YD DUMPTRUCK#1107 DATE 4-20-09
ADDRESS	VAIE 4-20-09
COMPANY 5.4.6.S.	
PITOWNER LAND FARM	TOTAL YDS 72 RATETOTAL
ADDRESS	TOTAL
XXXXXX	3 "4 -5 "6 " 18 19 20 21 22 23 24 25 26 21 28 29 30 RATE CANS TOTA
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75.4.6.5. 75.86.5, t-our 2009-008 4-21-09 5-Londs To CELL#9

OCOTILLO ENVIRONMENTAL, LLC

HOURS WORKED	PER HOUR #
COMPANY	
PITOWNER_ LAND FARM ADDRESS	TOTAL YDS_60_RATETOTAL PATE PAIDCK_NO
PROP 1 2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0 '4 6 '6 ' 16 '9 20 2' 22 20 24 25 26 27 28 29 30 FATE LOADS TOTAL

54.B.S. M.F.X L-5, +-0VRA 2009-008 4-21-09 5-LOADS TO CELL#1

OF OTHER DESIGNATION AND ALLELE

HOURS WORKED	PER HOUR #	
COMPANY 54.6.5.		
TIP PACESS	TOTAL YDS 60 RATE TOTAL	
XXXXX		

54.6-5. MFXL-5 +-OVER 2009-008 4-22-09 4-LOAds TO CELL #1

M OLLIFTON FACIBOAME	1	AL.	1	L	(
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HOURS WORKED	PER HOUR #
TRUCKER L. Combs	12YD DUMPTRUCK 108 DATE 4-22-09
COMPANY _ 5.4.6.5.	
ADDRESS	TOTAL YDS_48_RATETOTAL PATE PAIDCK_NO
XXXX	5 4 5 16 1 8 19 20 21 22 23 24 25 36 27 28 28 30 RATE . DADS TOTAL

546.9 M.F.K.L.5, +-0VER 2009-008 4-22-09 3- Londs To CELL# 7

HOURS WORKED	R 124D DUMPTRUCK 1107 DATE 11-12-200
COMPANY 54.6-5.	
TIP PILES	TOTAL YDS 36 RATE TOTAL
XXX	CK NO

5.4.6.5. M-F X L-5, +-OVER 2009-008 4.23-09

5-LOAds TOCELL#1

OCOTILLO ENVIRONMENTAL LL

	THE PERSON AND ALLELE	
HOURS WORKED	PER HOU	R #
TRUCKER C.L. CA	RUER 12YD DUMPTRUCK 110	DATE // -22 -0
ADDRESS	110	DA 12 4-23-09
COMPANY _ 54.6.5.		
PITOWNER LAND FAR	TOTAL YDS 60 RATE	E TOTAL
WANTERS	PATE PAID	CKNO
XXXXX	2 3 4 5 6 1 8 19 20 21 22 23 24 25 36 21 38	B 29 30 BATE LOADS TOTAL
The second secon		
-		

5.4.6.5. M-FXL-5 +-OVER 2009-008 4-23-09 5-LORDS TO CELL#1

ON OTHER DESIGNATION OF STREET

HOURS WORKED	PER H	lour #
TRUCKER L. COMPS	12YD DUMPTRUCK	#
ADDRESS		1108 DATE 4-23-09
COMPANY		
PITOWNER LAND FARM	TOTAL YDS 60 R	ATE TATAL
ADDKESS	PATE PAID	CK NO
XXXXX	3 4 5 6 7 18 19 20 21 22 23 24 25 26	2" 26 29 30 RATE _OADS TOTA
		the property of the second sec

54.6.9. M-FR 6-5. 2009-008 +-OVER (MORTH) 4-29-09 5- LOADS TO CELL#7

(M.O.111.1	OF STROSMESTAL, LLC
HOURS WORKED	PER Mana #
ADDRESS	12YD DUMPTRUCK TOO DATE 4-29-05
COMPANYS.U 6-S.	
TIP PACES	TOTAL YDS_60 RATETOTAL
provide a set to the set of the s	5 16 11 18 19 20 21 22 23 24 25 26 27 28 28 30 RATE LOADS TOTAL

5.4.6.8. 19.5 x L.5, t-OVER (NORTH) 2009-008 4.29-09 5-LOADS TO CALL #7

ON OTHELO PAVIROSMENTAL LL

	The second state of the
HOURS WORKED 10 TRUCKER L. Combs ADDRESS	12YD DUMPTRUCK 1/08 DATE 4-28-0
COMPANY 5.4.6.S.	
TIP DICESS	TOTAL YDS_60_RATETOTAL PATE PAIDCK_NO
Bedress 2 1 1 5 E T 5	4 5 6 1 8 9 20 21 22 23 24 25 X 21 28 25 30 RATE COADS TOTAL

54 6.5. M-FX 15, +-OVER 2009-008 4-30-09 5-LORDS TO CELL#7

ON OTHER OF STRONGEST ALLEE

HOURS WORKED	PER HOU	IR #
TRUCKER L. COMBS	/ZYD DUMPTRUCK *	
ADDRESS		08 DATE 4-30-00
COMPANY S.U. G. S		
PITOWNER LAND FARM	TOTAL YDS 60 RAT	E total
AUURESS	PATE PAID	CK NO
XXXXX		
		* 100000
		-

54.6.5. 19-4 x L-5, +-0VER 2009-008 4-30-09

5- LOADS TO CELLAY

HOURS WORKED 10

PER HOUR #

TRUCKER C-L. CARVER 12YD DUMP TRUCK 1007 DATE 4-30-08

ADDRESS

COMPANY 54.6.5.

PIT OWNER LAND FARM TOTAL YDS 65 RATE TOTAL

ADDRESS DATE PAID CK MO

XXXXXX

54.6.5. MFXL5, t-OVER 2009-008 5-1-09 6-60845 TO CELL#7

ON OTHER ON SANTRONMENT ALLER

HOURS WORKED	PER HOUR #
TRUCKER L. Combs	12YD DUMPTRUCK 1/08 DATE 5-1-09
ADDRESS	DATE 5-1-09
COMPANYSU.6.5.	
PITOWNER LAND FARM	TOTAL VDS 72 PAGE
ADDRESS	TOTAL YDS_72 RATETOTAL
XXXXXX	
	6
the state of the s	

5.4.6.5. Mf & L.5, +-OVER 2009-008 5-1-09 6-LOADS TO CELL#7

ON OTHLO PANIROSMENTAL, 110

	TO CHEROSAF STALLILL
HOURS WORKED	12YD DUMPTRUCK 1/27 DATE 5-1-0
COMPANY S.U.G.S.	
	TOTAL YDS_Y 2_ RATETOTAL
- XXXXX	6 16 1 16 19 20 21 22 23 24 25 27 27 28 25 30 24 25 30 20 A

54.6.5. MFX L-5, +- OVER 2009-008 5-7-09 6-LOADS TO CELL #7

PROTILLOENVIRONMENTALLLE

	the state of the s
HOURS WORKED	PER HOUR #
TRUCKER L. Comps	PER HOUR #
ADDRESS	108 DATE 5 -7-09
COMPANY 54.6.5	
PITOWNER LAND FARM	TOTAL YDS_ZZ_RATETOTAL
TIP PILEOS	DATE DAID
XXXXXX	

54.6.5. MFX L-5, +-OVER 2009-008 5-7-09 6-LOADS TO CELL#7

OF OTHER DENVIRONMENTAL, LEG

	TALL L
HOURS WORKED	12YD DUMPTRUCK 1107 DATE 5-7-09
COMPANY 5.4.6.5.	
XXXXXX	4 5 16 19 20 21 22 25 24 25 37 27 28 29 30 RATE DADE TOTAL



APPENDIX E

Initial and Final C-141

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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505 2009-008

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

Form C-141 Revised October 10, 2003

Release Notification and Corrective Action

						OPERA	TOR	-	Init	tial Report	Final Repo
Name of C	ompany	South	ern Unio	n Gas Services, Li	td.	Contact		-			Tony Savoie
Address P.O. Box 1226 Jal, N.M. 88252				Telephone No. 505-395-2116							
Facility Name Lea County Field Dept.			Facility Type Natural Gas Gathering								
Surface Ov	vner: Milla	rd Deck		Mineral Ow	vner	State			Lease	No	
							N	THEY W			
Unit Letter	Section	Township	T D	LOCAT	110	N OF RE	LEASE 6	P1#30	025.	39231.00	000
O Contraction	15	Township 21S	Range 37E	Feet from the	Nort	h/South Line	Feet from t	he East	West Line	County	
											Lea
				Latitude N32 2	8.32	6 Longitud	e W103 0	077			
				NATU	RE	OF REL	EASE	.077			
Type of Rele	ase: Crude	Oil, and Natu	ral Gas				Release: Gr	eater than	Volume	Recovered	NONE
C- 00	1					50 MCF ga	as Greater tha	n 5 bbls	Volume	Recovered	NONE
Source of Re	lease: 10"	Natural Gas P	ipeline			Date and H	lour of Occur	rence	Date and	Hour of Disco	very 1/7/09
Was Immedia	ate Notice (iven?				not known If YES, To	W/L0		9:07 a.m.		-
			Yes 🛭	No Not Requ	ired	11 163, 10	wnom?				
By Whom? 1						Date and H					
Was a Water	course Reac		Yes 🛛	N.		If YES, Vo	lume Impact	ing the Wa	tercourse.		
If a Watercou											
The 10" Nat leak clamps	tural gas pi had been i iscovery th	peline develor nstalled on ti	oped a le	ak prior to the disc ne. There were no one area measured							
Describe Area	Affected a	nd Cleanup A	ction Take	en. Approximately 1	340	so ft of pastur	e land was at	Facted by t	ha lask and		
public health o	or the environment. In ad	onment. The average failed to addition, NMOC	ecceptance lequately i	is true and complete for file certain relea of a C-141 report b investigate and reme ance of a C-141 repo	y the	NMOCD ma	rked as "Fina	Report" d	ons for relations not relations	eases which ma	y endanger or of liability
		- 0	_				OIL CO	NSERV	ATION	DIVISION	
Signature:	1 00	45	ancie			Approved by District Supervisor					
Printed Name: John A Savoie					ENVIRONMENTAL ENGINEER						
Title: Remed	iation Super	visor			1	Approval Date:			SAUSON NAME OF THE PARTY OF THE	Date: 5.24	4.09
-mail Address: tony.savoie@sug.com					Conditions of Approval:						
Date: 3/23/09			Phone: 4	05-395-2116						Attached	
ttach Additio	anal Sheet	If Niggonson		075-2110						1 Ktar 8	9.5.2185

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

State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011

Form C-141

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

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

Attached

1220 S. St. Francis Dr., Santa Fe, NM 87505 **Release Notification and Corrective Action OPERATOR** Initial Report Final Report Name of Company: Regency Field Services LLC. Contact: Crystal Callaway Address: 301 Commerce Street, Suite 700, For Worth TV 76102 Telephone No.: (817) 302-9407 Facility Name: L5 to MF Facility Type: Natural Gas Gathering API No.: 30025-39231-00-00 Surface Owner: Millard Deck Mineral Owner: State LOCATION OF RELEASE Feet from the North/South Line Feet from the East/West Line County Unit Letter Section Township Range 15 21S 37E Lea Latitude 32.472081 Longitude -103.151236 NATURE OF RELEASE Type of Release: Crude Oil and Natural Gas Volume of Release: Greater than Volume Recovered: None 50 MCF gas, Greater than 5 bbls crude oil Date and Hour of Discovery: 01/07/2009 Source of Release: 10" Natural Gas Pipeline Date and Hour of Occurrence: Unknown 9:07 am Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☐ Not Required By Whom? Tony Savoie Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☐ No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* The 10" Natural gas pipeline developed a leak prior to the discovery date of 02/26/2009. The leak area had been excavated and three (3) temporary leak clamps had been installed on the pipeline. There were no fluids standing or gas leaking upon discovery. There were two (2) area noted during the discovery that were oil stained. One (1) area measured approximately 10' x 18' and the other measured approximately 40' x 20'. Describe Area Affected and Cleanup Action Taken.* Reportedly, in 2009, approximately 2,904 cubic yards (yd³) of impacted soil was excavate from the release site by Basin Environmental and transported to an approved Landfarm. Further excavation was determined to be unsafe and impracticable given the risks associated with the depth of the excavation and the proximity of the floor of the excavation to groundwater. Two (2) confirmation samples exceeded the NMOCD Guidelines and as a result one (1) monitor well was installed in order to confirm there was not an impact to groundwater. Five (5) sampling events confirmed that there was not a chloride impact and laboratory results indicated that BTEX concentrations were less than the laboratory MDL for each of the submitted groundwater samples, with the exception of benzene at 0.0258 mg/L for the January 9, 2014 sampling event. 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: Approved by Environmental Specialist: Printed Name: Approval Date: Expiration Date: E-mail Address: (MASA) Magning MS. Lory Conditions of Approval:

Attach Additional Sheets If Necessary

Phone: 71