RECEIVED
SEP 14 2010
HOBBSOCD

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

IRP-2585

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Southern Union Gas Services	Contact	Rose Slade
Address	P.O. Box 1226 Jal, New Mexico 88252	Telephone No.	432-940-5147
Facility Name	Lateral A-9	Facility Type	Natural Gas Pipeline

Surface Owner Kelly Meyers	Mineral Owner	Lease No. 30-025-38822

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
"M"	7	24S	37E					Lea

Latitude N 32.22723 degrees **Longitude** W 103.20821 degrees

NATURE OF RELEASE

Type of Release Natural Gas, Crude Oil and Produced Water	Volume of Release 7 BBLS	Volume Recovered 0 BBLS
Source of Release 4-Inch Steel Pipeline	Date and Hour of Occurrence *June 19, 2010, approx. 1030 hrs	Date and Hour of Discovery *June 19, 2010, 1030 hrs
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

*This release was initially deemed a non-reportable release of three (3) barrels. Following delineation activities, Southern Union has opted to re-classify this release a reportable release of (7) barrels.

The release was caused by internal corrosion of the 4-inch steel pipeline. A temporary pipeline clamp was utilized to mitigate the release during the initial release response. Following initial response activities, a segment of the pipeline has been replaced. No H2S has been detected

Describe Area Affected and Cleanup Action Taken.*
The affected area measures approximately 2,500 square feet. The release was remediated per NMOCD regulatory guidelines. Please reference a Closure Report prepared by Elke Environmental, Inc. on behalf of Southern Union Gas Services and dated August 26, 2010.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Rose L Slade

Printed Name: Rose L. Slade

Title: EHS Compliance Specialist

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

Date: 9/10/2010 Phone: 432-940-5147

OIL CONSERVATION DIVISION

ENV. ENGR

Approved by ~~District Supervisor~~: Geoffrey Leking

Approval Date: 09/14/10 Expiration Date: —

Conditions of Approval:

Attached ☐

IRP-10-7-2585

* Attach Additional Sheets If Necessary

IRP-2585

Closure Report

Prepared for
Southern Union Gas

LAT A-9
Lea Co., NM

RECEIVED
SEP 14 2010
HOBBSOCD

Prepared by
Elke Environmental, Inc.
P.O. Box 14167 Odessa, TX 79768
Phone (432) 366-0043 Fax (432) 366-0884

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768
Phone (432) 366-0043 Fax (432) 366-0884

August 26, 2010

Southern Union Gas
Ms. Rose Slade
1507 W 15th Street
Monahans TX, 79756

Re: Lateral A-9 (1RP-2585)

Ms. Rose Slade,

On July 31, 2010, Elke Environmental, Inc (Elke), on behalf of Southern Union Gas Services (SUG) completed the delineation and remediation of a pipeline release attributed to internal corrosion of a six (6) inch steel lateral pipeline. The release was located in Unit letter "M", Section 7, Township 24 South and Range 37 East in rural Lea County, New Mexico. The release GPS Coordinates were 32° 13.624' N, 103° 12.505' W. The property is owned by Mr. Kelly Meyers of Jal, New Mexico. The release was confined to a caliche lease road, with some airborne "overspray" on vegetation to the northwest of the release point. The release occurred on June 19, 2010 and the volume was initially estimated to be approximately three (3) barrels (non-reportable) of a mixture of natural gas, crude oil and produced water, with no recovery. On further investigation, SUG opted to reclassify the release as a reportable release of approximately seven (7) barrels, with no recovery. An initial C-141 was prepared and submitted to the New Mexico Oil Conservation Division (NMOCD) on July 15, 2010.

A search of the state water well database maintained by the New Mexico Office of the State Engineer indicated no water wells were registered in the above reference section. Groundwater was encountered at eighty-one (81) feet below ground surface (bgs) in a water well located in Section 8 of the above referenced Township. Again, no registered water wells were located in Section 7 and no water bodies are located within 1,000 feet of the release site. Based on the NMOCD ranking classification, the release site score is ten (10). A release site with a ranking score of ten (10) requires the following cleanup levels:

Benzene: 10 mg/Kg
BTEX : 50 mg/Kg
TPH: 1,000 mg/Kg
Chloride: 250 mg/Kg

On July 14, 2010, initial excavation of the release began; impacted soil was stockpiled adjacent to the release on plastic. The initial depth of excavation was approximately twenty-four (24) to twenty-seven (27) inches bgs. Following initial excavation activities, five (5) soil samples (TP 1

@ 24", TP 2 @ 24", TP 3 @ 27", TP 4 @ 24" and TP 5 @ 24") were collected. A site map is attached and depicts the locations of the soil samples. The soil samples were field screened using a Photo-Ionization Detector (PID), a TPH analyzer (Method 418.1) and a chloride field test kit (EPA 4500 Cl-), prior to submission to the laboratory for confirmation analysis. The soil samples were analyzed for concentration of benzene, toluene, ethyl benzene and xylene using EPA Method 8021b, total petroleum hydrocarbons using EPA Method SW-846 8015M and chloride using EPA 300.1. The analytical results indicated chloride concentrations exceeded the NMOCD cleanup standards in areas represented by soil samples TP 1 @ 24" and TP 5 @ 24".

On July 14, 2010, a stockpile soil sample was collected to evaluate the status of the stockpile material and the potential use of the material as backfill. The analytical results indicated benzene, BTEX and chloride concentration were less than the NMOCD clean-up standards and the stockpile soil TPH concentration was 1,088 mg/Kg. Based on analytical results the stockpiled soil would require blending prior to backfilling the excavation with the material.

On July 30, 2010, a ten (10) foot in width by ten (10) in length excavation was completed in the two (2) areas identified by the previous sampling event. The excavation was centered on the sample point (TP 1 and TP 5) and excavated to a depth of thirty-six (36) inches bgs.

Following the excavation activities, two (2) soil samples (TP 1 @ 36" and TP 5 @ 36") were collected and submitted to the laboratory for benzene, BTEX, TPH and chloride analysis. The analytical results indicated the concentrations of the constituents were less than the NMOCD clean-up levels.

An additional soil sample was collected from the blended stockpile and submitted for analysis. The analytical results indicated the concentrations of the constituents were less than the NMOCD clean-up levels and the blended stockpile soil was placed in the excavation.

The area of overspray was scraped to approximately two (2) inches bgs and placed in the impacted soil stockpile for blending. Approximately sixty-six (65) cubic yards (cy) of impacted soil was excavated, blended and used as backfill material.

Elke Environmental, Inc, on behalf of Southern Union Gas Services, requests NMOCD Site Closure site for the Lateral A-9 release. Attached to this report are: field screen data, photographs, laboratory analytical reports, a site map and the Initial C-141.

Respectfully submitted,

Bobby Steadham
Elke Environmental, Inc.

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Sub basin	Use	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 00037 SRW2		POL	LE		2	1	05	24S	37E	670782	3569793*	177	106	71
CP 00297 A		POL	LE		2	1	12	24S	37E	677245	3568291*	32	18	14
CP 00443		STK	LE	3	4	1	08	24S	37E	670718	3567680*	125	90	35
CP 00501		SAN	LE	4	1	4	28	24S	37E	673019	3562484*	110	70	40
CP 00540		STK	LE				23	24S	37E	675913	3564435*	110	94	16
CP 00652 EXPL		DOM	LE			2	25	24S	37E	677940	3563270*	180	90	90
CP 00663		DOM	LE	1	1	3	24	24S	37E	676812	3564362*	112	100	12
CP 00886		POL	LE		3	4	35	24S	37E	676172	3560628*	73		
CP 00912		STK	LE	1	1	1	11	24S	37E	675130	3568357*	95		

Average Depth to Water: **81 feet**
Minimum Depth: **18 feet**
Maximum Depth: **106 feet**

Record Count: 9

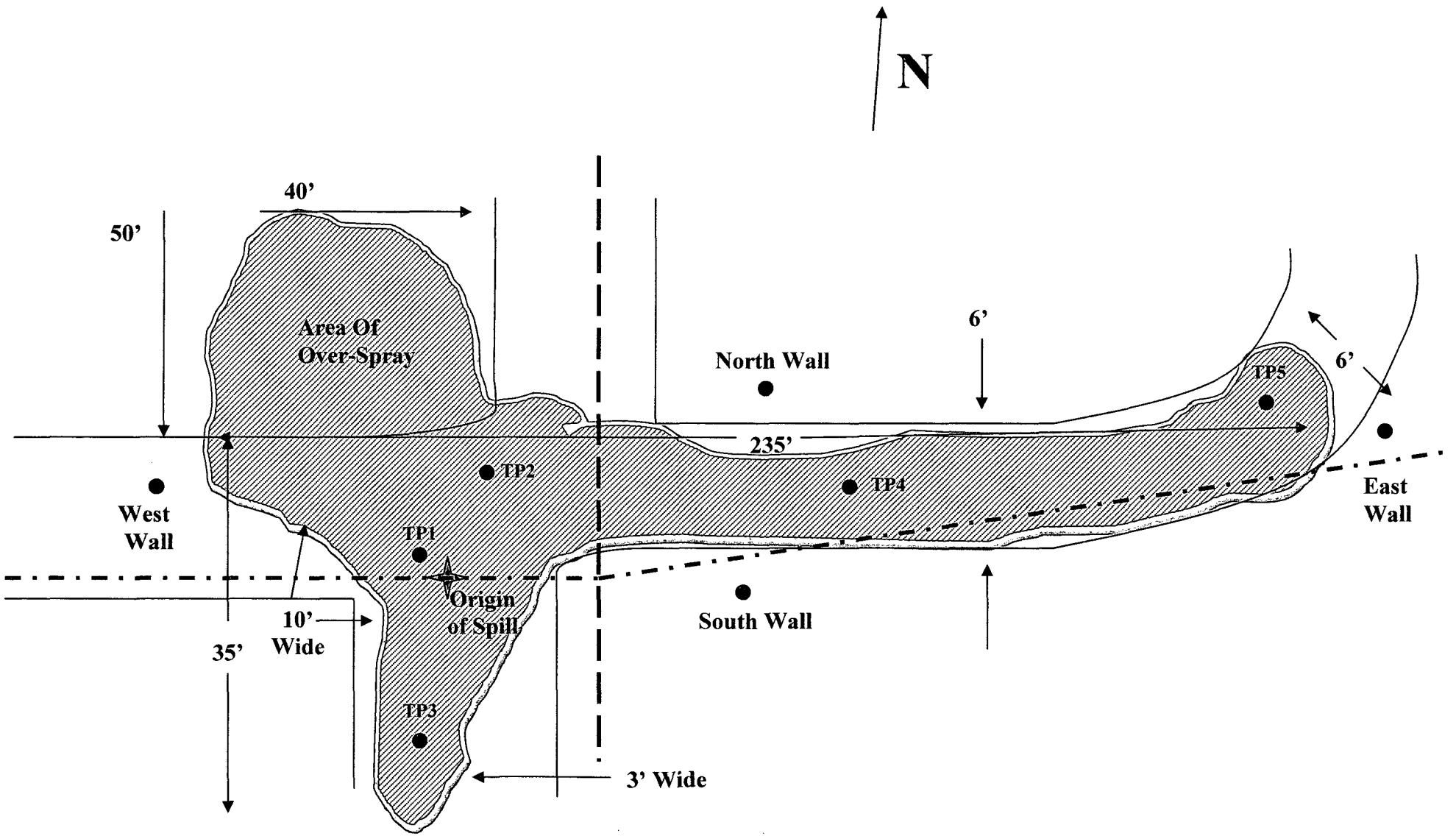
PLSS Search:

Township: 24S **Range:** 37E

***UTM location was derived from PLSS - see Help**

Southern Union Gas Services
Line # Lat A-9 Leak

Plat Map



Elke Environmental, Inc.
P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

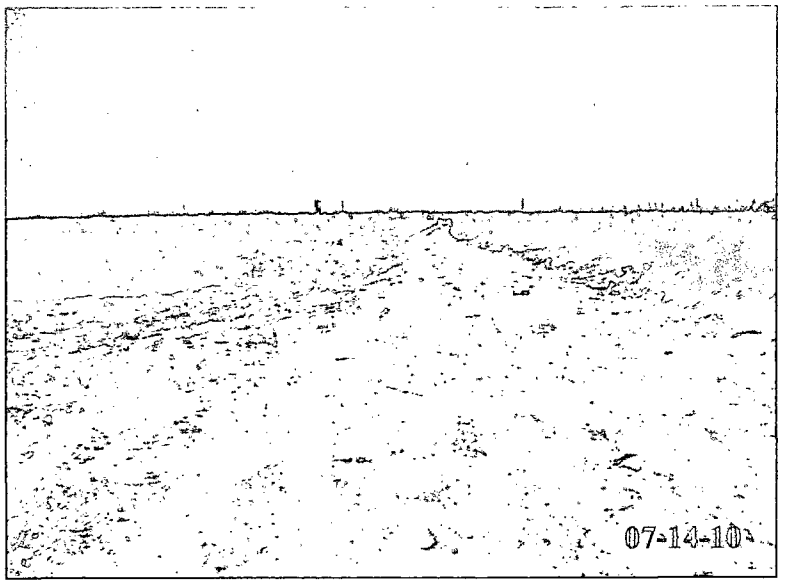
Client Southern Union Gas **Analyst** BobbySteadham

Site 6" Lat Lea

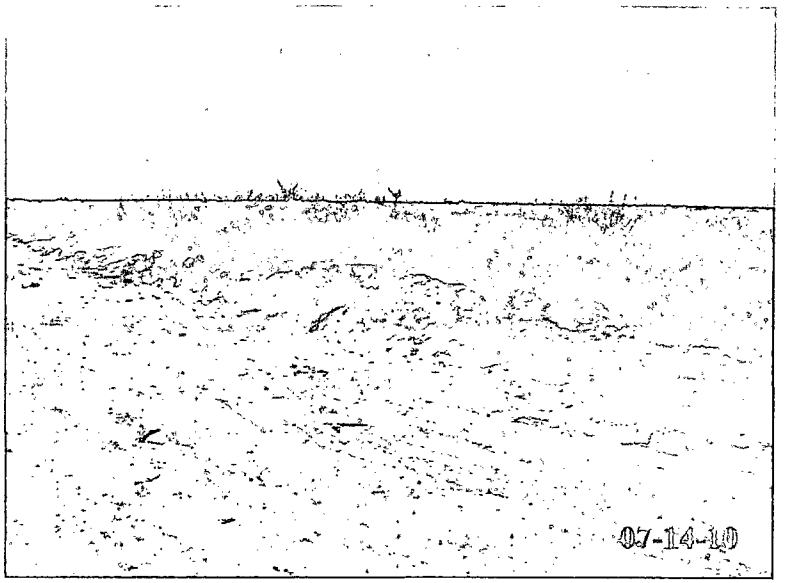
Sample ID	Date	Depth	418.1 TPH / PPM	Cl / PPM	PID / PPM	GPS
Test Point 1	7/14/10	24"	17	267	16.6	32° 13.624' N 103° 12.505' W
Test Point 1	7/31/10	36"	12	113		32° 13.624' N 103° 12.505' W
Test Point 2	7/14/10	24"	15	108	6.0	32° 13.625' N 103° 12.501' W
Test Point 3	7/14/10	18"	79	121	10.8	32° 13.612' N 103° 12.503' W
Test Point 4	7/14/10	24"	23	113	1.4	32° 13.624' N 103° 12.487' W
Test Point 5	7/14/10	24"	21	97	6.7	32° 13.624' N 103° 12.471' W
Test Point 5	7/31/10	36"	15	101		32° 13.624' N 103° 12.471' W
Pile	7/15	N/A	972	76		
Pile	7/31/10	N/A	1013	97		
North Wall	7/15	12"	24	101		32° 13.630' N 103° 12.499' W
East Wall	7/15	12"	6	111		32° 13.625' N 103° 12.465' W
South Wall	7/15	6"	19	121		32° 13.616' N 103° 12.499' W
West Wall	7/15	12"	12	116		32° 13.624' N 103° 12.516' W

Analyst Notes

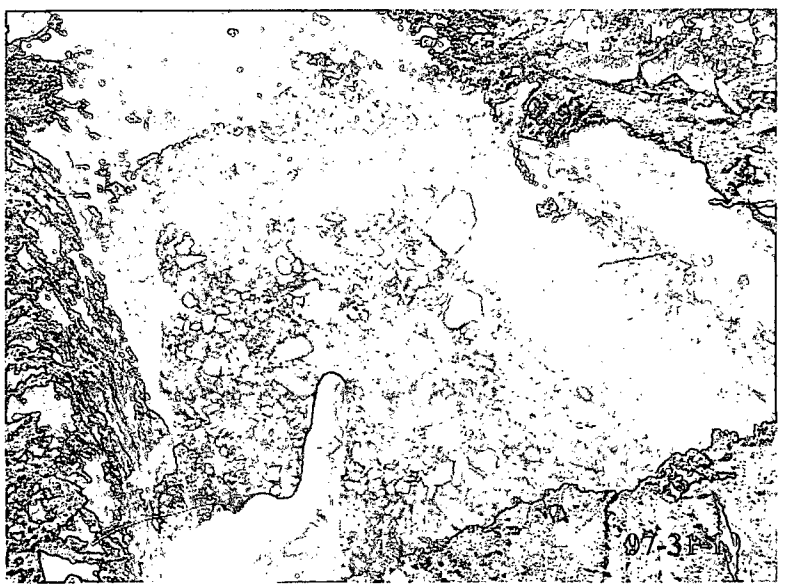
Southern Union Gas – Lat A-9



Site after spill



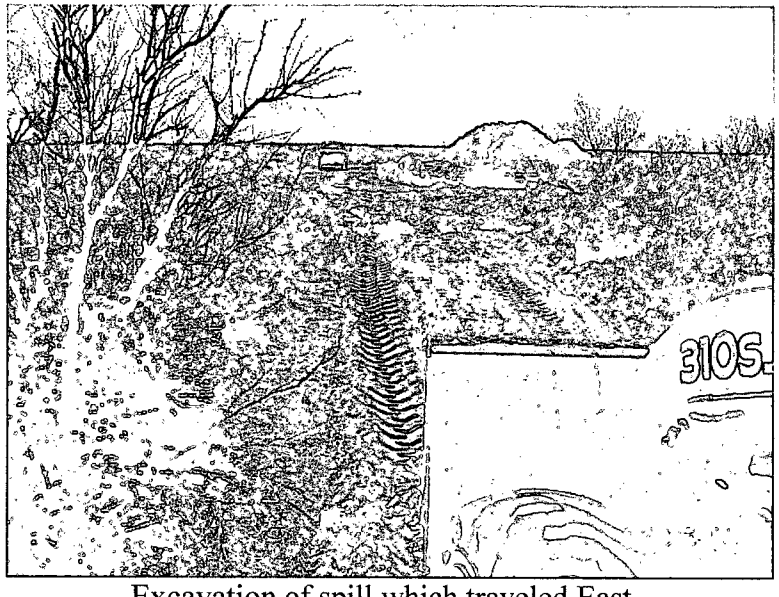
Area of Overspray



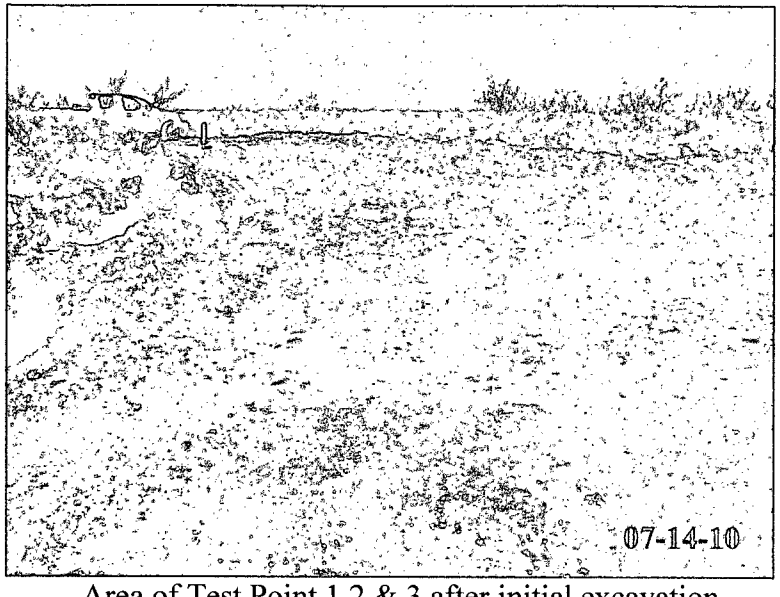
Test Point One

Test Point 5

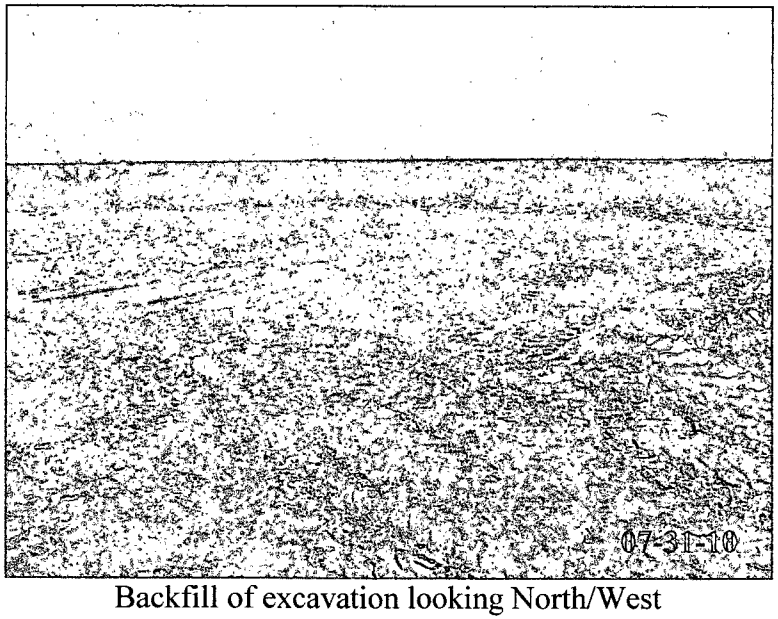
Southern Union Gas – Lat A - 9



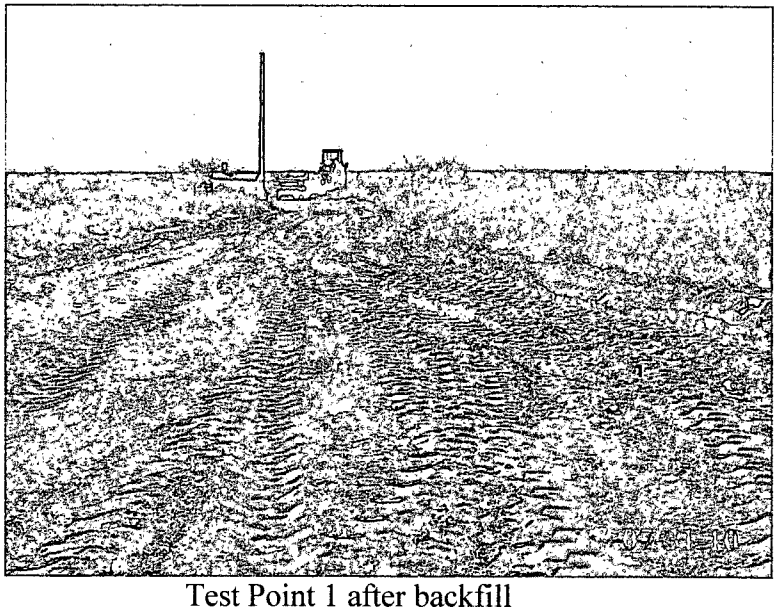
Excavation of spill which traveled East



Area of Test Point 1,2 & 3 after initial excavation



Backfill of excavation looking North/West



Test Point 1 after backfill

Analytical Report 382203

for

Elke Environmental, Inc.

Project Manager: Bobby Steadham

Southern Union Gas

23-JUL-10

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

23-JUL-10

Project Manager: **Bobby Steadham**
Elke Environmental, Inc.
P.O. Box 14167
Odessa, TX 79768

Reference: XENCO Report No: **382203**
Southern Union Gas
Project Address: Lat A-9

Bobby Steadham:

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 382203. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 382203 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 382203

Elke Environmental, Inc., Odessa, TX

Southern Union Gas

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TP 1 @ 24"	S	Jul-14-10 10:15	24 In	382203-001
TP 2 @ 24"	S	Jul-14-10 16:30	24 In	382203-002
TP 3 @ 27"	S	Jul-14-10 11:30	27 In	382203-003
TP 4 @ 24"	S	Jul-14-10 13:30	24 In	382203-004
TP 5 @ 24"	S	Jul-14-10 14:45	24 In	382203-005
Pile	S	Jul-15-10 17:30		382203-006

CASE NARRATIVE

Client Name: Elke Environmental, Inc.
Project Name: Southern Union Gas

Project ID:
Work Order Number: 382203

Report Date: 23-JUL-10
Date Received: 07/19/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-815417 Percent Moisture
None

Batch: LBA-815421 TPH By SW8015 Mod
None

Batch: LBA-815460 Anions by E300
None

Batch: LBA-815660 BTEX by EPA 8021B
SW8021BM

Batch 815660, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 382345-003 D.
4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 382345-003 D.

SW8021BM
Batch 815660, Benzene, Toluene, Ethylbenzene, m,p-Xylenes , o-Xylene RPD is outside the QC limit. This is most likely due to sample non-homogeneity.
Samples affected are: 382203-006, -001, -002, -003, -005, -004.

Certificate of Analysis Summary 382203

Elke Environmental, Inc., Odessa, TX

Project Name: Southern Union Gas

Project Id:
Contact: Bobby Steadham
Project Location: Lat A-9

Date Received in Lab: Mon Jul-19-10 04:00 pm
Report Date: 23-JUL-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	382203-001		382203-002		382203-003		382203-004		382203-005		382203-006	
	Field Id:	TP 1 @ 24"		TP 2 @ 24"		TP 3 @ 27"		TP 4 @ 24"		TP 5 @ 24"		Pile	
	Depth:	24 In		24 In		27 In		24 In		24 In			
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jul-14-10 10:15		Jul-14-10 16:30		Jul-14-10 11:30		Jul-14-10 13:30		Jul-14-10 14:45		Jul-15-10 17:30	
Anions by E300	***Extracted:***												
	Analyzed:	Jul-20-10 17:21		Jul-20-10 17:21		Jul-20-10 17:21		Jul-20-10 17:21		Jul-20-10 17:21		Jul-20-10 17:21	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		395	18.3	7.20	4.35	ND	4.35	4.93	4.35	626	86.9	83.1	8.63
BTEX by EPA 8021B	***Extracted:***	Jul-22-10 07:00		Jul-22-10 07:00		Jul-22-10 07:00		Jul-22-10 07:00		Jul-22-10 07:00		Jul-22-10 07:00	
	Analyzed:	Jul-22-10 18:13		Jul-22-10 18:36		Jul-22-10 18:58		Jul-22-10 19:21		Jul-22-10 20:29		Jul-22-10 21:58	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0011	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Toluene		ND	0.0022	ND	0.0021	ND	0.0021	ND	0.0021	ND	0.0020	ND	0.0020
Ethylbenzene		ND	0.0011	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
m,p-Xylenes		ND	0.0022	ND	0.0021	ND	0.0021	ND	0.0021	ND	0.0020	ND	0.0020
o-Xylene		ND	0.0011	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Total Xylenes		ND	0.0011	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Total BTEX		ND	0.0011	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Percent Moisture	***Extracted:***												
	Analyzed:	Jul-21-10 08:30		Jul-21-10 08:30		Jul-21-10 08:30		Jul-21-10 08:30		Jul-21-10 08:30		Jul-21-10 08:30	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		8.24	1.00	3.47	1.00	3.53	1.00	3.41	1.00	3.35	1.00	2.66	1.00
TPH By SW8015 Mod	***Extracted:***	Jul-20-10 11:00		Jul-20-10 11:00		Jul-20-10 11:00		Jul-20-10 11:00		Jul-20-10 11:00		Jul-20-10 11:00	
	Analyzed:	Jul-20-10 22:16		Jul-20-10 22:46		Jul-20-10 23:44		Jul-21-10 00:13		Jul-21-10 00:42		Jul-21-10 01:10	
	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	16.4	ND	15.5	ND	15.5	ND	15.6	ND	15.5	30.4	15.4
C12-C28 Diesel Range Hydrocarbons		ND	16.4	ND	15.5	ND	15.5	ND	15.6	41.3	15.5	935	15.4
C28-C35 Oil Range Hydrocarbons		ND	16.4	ND	15.5	ND	15.5	ND	15.6	ND	15.5	123	15.4
Total TPH		ND	16.4	ND	15.5	ND	15.5	ND	15.6	41.3	15.5	1088	15.4

Brent Barron, II
Odessa Laboratory Manager

Final 1.000

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 effect the recovery of the spike concentration. This condition could also effect 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 MQL and above the SQL.

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

PQL Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Southern Union Gas

Work Orders : 382203, **Project ID:**

Lab Batch #: 815660 **Sample:** 568680-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 07/22/10 07:20

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0287	0.0300	96	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	80-120	

Lab Batch #: 815660 **Sample:** 568680-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 07/22/10 07:42

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0295	0.0300	98	80-120	
4-Bromofluorobenzene	0.0291	0.0300	97	80-120	

Lab Batch #: 815660 **Sample:** 568680-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 07/22/10 08:50

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0255	0.0300	85	80-120	
4-Bromofluorobenzene	0.0291	0.0300	97	80-120	

Lab Batch #: 815660 **Sample:** 382345-003 D / MD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/22/10 09:34

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0176	0.0300	59	80-120	**
4-Bromofluorobenzene	0.0398	0.0300	133	80-120	**

Lab Batch #: 815660 **Sample:** 382203-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/22/10 18:13

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0249	0.0300	83	80-120	
4-Bromofluorobenzene	0.0315	0.0300	105	80-120	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

[illegible] results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Southern Union Gas

Work Orders : 382203, **Project ID:**

Lab Batch #: 815660 **Sample:** 382203-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/22/10 18:36

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0249	0.0300	83	80-120	
4-Bromofluorobenzene	0.0306	0.0300	102	80-120	

Lab Batch #: 815660 **Sample:** 382203-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/22/10 18:58

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0253	0.0300	84	80-120	
4-Bromofluorobenzene	0.0311	0.0300	104	80-120	

Lab Batch #: 815660 **Sample:** 382203-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/22/10 19:21

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0250	0.0300	83	80-120	
4-Bromofluorobenzene	0.0313	0.0300	104	80-120	

Lab Batch #: 815660 **Sample:** 382203-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/22/10 20:29

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0252	0.0300	84	80-120	
4-Bromofluorobenzene	0.0303	0.0300	101	80-120	

Lab Batch #: 815660 **Sample:** 382203-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/22/10 21:58

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0251	0.0300	84	80-120	
4-Bromofluorobenzene	0.0307	0.0300	102	80-120	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Southern Union Gas

Work Orders : 382203,

Project ID:

Lab Batch #: 815421 **Sample:** 568555-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 07/20/10 16:48

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.7	99.9	97	70-135	
o-Terphenyl	42.7	50.0	85	70-135	

Lab Batch #: 815421 **Sample:** 568555-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 07/20/10 17:19

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.9	99.9	92	70-135	
o-Terphenyl	40.1	50.0	80	70-135	

Lab Batch #: 815421 **Sample:** 568555-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 07/20/10 17:50

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.4	100	89	70-135	
o-Terphenyl	44.3	50.0	89	70-135	

Lab Batch #: 815421 **Sample:** 382203-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/20/10 22:16

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.8	100	88	70-135	
o-Terphenyl	43.2	50.1	86	70-135	

Lab Batch #: 815421 **Sample:** 382203-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/20/10 22:46

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.3	99.5	88	70-135	
o-Terphenyl	42.5	49.8	85	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Southern Union Gas

Work Orders : 382203, **Project ID:**

Lab Batch #: 815421 **Sample:** 382203-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/20/10 23:44

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.7	99.7	87	70-135	
o-Terphenyl	42.1	49.9	84	70-135	

Lab Batch #: 815421 **Sample:** 382203-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/21/10 00:13

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.3	100	93	70-135	
o-Terphenyl	45.7	50.2	91	70-135	

Lab Batch #: 815421 **Sample:** 382203-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/21/10 00:42

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	99.7	119	70-135	
o-Terphenyl	58.6	49.9	117	70-135	

Lab Batch #: 815421 **Sample:** 382203-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/21/10 01:10

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.3	99.8	91	70-135	
o-Terphenyl	45.8	49.9	92	70-135	

Lab Batch #: 815421 **Sample:** 382202-002 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/21/10 03:37

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	52.0	50.1	104	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Southern Union Gas

Work Orders : 382203,

Project ID:

Lab Batch #: 815421 **Sample:** 382202-002 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 07/21/10 04:06

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	45.4	50.1	91	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

[N] results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Southern Union Gas

Work Order #: 382203 **Project ID:**

Analyst: ASA **Date Prepared:** 07/22/2010 **Date Analyzed:** 07/22/2010

Lab Batch ID: 815660 **Sample:** 568680-1-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	ND	0.1000	0.1023	102	0.1	0.1101	110	7	70-130	35	
Toluene	ND	0.1000	0.0956	96	0.1	0.1023	102	7	70-130	35	
Ethylbenzene	ND	0.1000	0.0985	99	0.1	0.1071	107	8	71-129	35	
m,p-Xylenes	ND	0.2000	0.2012	101	0.2	0.2180	109	8	70-135	35	
o-Xylene	ND	0.1000	0.0975	98	0.1	0.1061	106	8	71-133	35	

Analyst: LATCOR **Date Prepared:** 07/20/2010 **Date Analyzed:** 07/20/2010

Lab Batch ID: 815460 **Sample:** 815460-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Anions by E300 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	ND	10.0	10.4	104	10	9.43	94	10	75-125	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

Final 1.000

BS / BSD Recoveries

Project Name: Southern Union Gas

Work Order #: 382203
Analyst: BEV
Lab Batch ID: 815421
Sample: 568555-1-BKS
Units: mg/kg

Date Prepared: 07/20/2010
Batch #: 1

Project ID:
Date Analyzed: 07/20/2010
Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	999	953	95	999	917	92	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	999	800	80	999	866	87	8	70-135	35	

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

Form 3 - MS Recoveries

Project Name: Southern Union Gas

Work Order #: 382203
Lab Batch #: 815460
Project ID:
Date Analyzed: 07/20/2010
Date Prepared: 07/20/2010
Analyst: LATCOR
QC- Sample ID: 382202-001 S
Batch #: 1
Matrix: Soil
Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	148	112	279	117	75-125	

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

B = Below Reporting Limit

Form 3 - MS/MSD Recoveries

Project Name: Southern Union Gas

Work Order # : 382203 **Project ID:**

Lab Batch ID: 815421 **QC- Sample ID:** 382202-002 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 07/21/2010 **Date Prepared:** 07/20/2010 **Analyst:** BEV

Reporting Units: mg/kg

TPH By SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1160	1370	118	1160	1180	102	15	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1160	1110	96	1160	962	83	14	70-135	35	

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

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

Sample Duplicate Recovery

Project Name: Southern Union Gas

Work Order #: 382203

Lab Batch #: 815460 **Project ID:**

Date Analyzed: 07/20/2010 **Date Prepared:** 07/20/2010 **Analyst:** LATCOR

QC- Sample ID: 382202-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Anions by E300 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	148	140	6	20	

Lab Batch #: 815660

Date Analyzed: 07/22/2010 **Date Prepared:** 07/22/2010 **Analyst:** ASA

QC- Sample ID: 382345-003 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

BTEX by EPA 8021B Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Benzene	11.95	28.04	80	35	F
Toluene	89.28	436.5	132	35	F
Ethylbenzene	52.16	157.4	100	35	F
m,p-Xylenes	369.2	1043	95	35	F
o-Xylene	81.77	224.0	93	35	F
a,a,a-Trifluorotoluene	168	168	0	35	

Lab Batch #: 815417

Date Analyzed: 07/21/2010 **Date Prepared:** 07/21/2010 **Analyst:** JLG

QC- Sample ID: 382200-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	6.67	6.12	9	20	

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

Environmental Lab of Texas

A Xenco Laboratories Company

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: Bobby Steadham
Company Name: Elke Environmental
Company Address: P O Box 14167
City/State/Zip: Odessa, TX 79768
Telephone No: 432-366-0043 Fax No: 432-366-0884
Sampler Signature:
e-mail: bs_elkeenv@yahoo.com

Project Name: Southern Union Gas
Project #:
Project Loc: Lat A-9
PO #:
Report Format: ■ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 382203

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TPH: 418.1 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	TP 1 @ 24"		24"	7/14/2010	10:15 AM		1	X								S	X			X					X				X
02	TP 2 @ 24"		24"	7/14/2010	4:30 PM		1	X								S	X			X					X				X
03	TP 3 @ 27"		27"	7/14/2010	11:30 AM		1	X								S	X			X					X				X
04	TP 4 @ 24"		24"	7/14/2010	1:30 PM		1	X								S	X			X					X				X
05	TP 5 @ 24"		24"	7/14/2010	2:45 PM		1	X								S	X			X					X				X
06	Pile		n/a	7/15/2010	5:30 PM		1	X								S	X			X					X				X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	7/16/10	4:00			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Lam	7-19-10	16:00

Laboratory Comments:

VOCs Free of Headspace? Y N
Custody seals on container(s) Y N
Sample Hand Delivered by Sampler/Client Rep.? Y N
by Courier? UPS DHL FedEx Lone Star
4029 1553
Temperature Upon Receipt: 2.1 °C

Final 1.000

XENCO Laboratories	Document Title: Sample Receipt Checklist
Atlanta, Boca Raton, Corpus Christi, Dallas	Document No.: SYS-SRC
Houston, Miami, Odessa, Philadelphia	Revision/Date: No. 01, 5/27/2010
Phoenix, San Antonio, Tampa	Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Elke Env.

Date/Time: 7.19.10 16:00

Lab ID # : 382203

Initials: AL

Sample Receipt Checklist

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

18. Cooler 1 No.		Cooler 2 No.		Cooler 3 No.		Cooler 4 No.		Cooler 5 No.	
lbs	2.1 °C	lbs	°C	lbs	°C	lbs	°C	lbs	°C

Nonconformance Documentation

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

Regarding: _____

_____

Corrective Action Taken:_____

_____

_____

_____

Check all that apply: ☐Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.

☐Initial and Backup Temperature confirm out of temperature conditions

☐Client understands and would like to proceed with analysis

Analytical Report 384215

for

Elke Environmental, Inc.

Project Manager: Curtis Elam

Southern Union Gas

10-AUG-10

Celebrating 20 Years of commitment to excellence in Environmental Testing Services

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

10-AUG-10

Project Manager: **Curtis Elam**
Elke Environmental, Inc.
P.O. Box 14167
Odessa, TX 79768

Reference: XENCO Report No: **384215**
Southern Union Gas
Project Address: Lat A-9

Curtis Elam:

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 384215. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 384215 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 384215

Elke Environmental, Inc., Odessa, TX

Southern Union Gas

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Pile	S	Jul-30-10 11:00		384215-001
TP 1 @ 36"	S	Jul-30-10 09:00	36 In	384215-002
TP 5 @ 36"	S	Jul-30-10 09:45	36 In	384215-003

CASE NARRATIVE

Client Name: Elke Environmental, Inc.
Project Name: Southern Union Gas

Project ID:
Work Order Number: 384215

Report Date: 10-AUG-10
Date Received: 08/04/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-817540 Percent Moisture
None

Batch: LBA-817553 TPH By SW8015 Mod
None

Batch: LBA-817714 Anions by E300
None

Batch: LBA-817943 BTEX by EPA 8021B
SW8021BM

Batch 817943, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 384215-003, -001, -002.
The Laboratory Control Sample for Toluene, m,p-Xylenes , Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

SW8021BM

Batch 817943, m,p-Xylenes RPD was outside QC limits.
Samples affected are: 384215-003, -001, -002

Certificate of Analysis Summary 384215

Elke Environmental, Inc., Odessa, TX

Project Name: Southern Union Gas

Project Id:
Contact: Curtis Elam
Project Location: Lat A-9

Date Received in Lab: Wed Aug-04-10 07:15 am
Report Date: 10-AUG-10
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	384215-001		384215-002		384215-003					
	Field Id:	Pile		TP 1 @ 36"		TP 5 @ 36"					
	Depth:			36 In		36 In					
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	Jul-30-10 11:00		Jul-30-10 09:00		Jul-30-10 09:45					
Anions by E300	*Extracted:*										
	Analyzed:	Aug-05-10 08:43		Aug-05-10 08:43		Aug-05-10 08:43					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		50.6	4.45	98.9	4.38	ND	4.54				
BTEX by EPA 8021B	*Extracted:*	Aug-06-10 10:15		Aug-06-10 10:15		Aug-06-10 10:15					
	Analyzed:	Aug-07-10 18:35		Aug-07-10 20:08		Aug-07-10 20:32					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		ND	0.0011	ND	0.0010	ND	0.0011				
Toluene		ND	0.0021	ND	0.0021	ND	0.0022				
Ethylbenzene		ND	0.0011	ND	0.0010	ND	0.0011				
m,p-Xylenes		ND	0.0021	ND	0.0021	ND	0.0022				
o-Xylene		ND	0.0011	ND	0.0010	ND	0.0011				
Total Xylenes		ND	0.0011	ND	0.0010	ND	0.0011				
Total BTEX		ND	0.0011	ND	0.0010	ND	0.0011				
Percent Moisture	*Extracted:*										
	Analyzed:	Aug-05-10 08:53		Aug-05-10 08:53		Aug-05-10 08:53					
	Units/RL:	%	RL	%	RL	%	RL				
Percent Moisture		5.72	1.00	4.01	1.00	7.55	1.00				
TPH By SW8015 Mod	*Extracted:*	Aug-04-10 12:54		Aug-04-10 12:54		Aug-04-10 12:54					
	Analyzed:	Aug-04-10 17:21		Aug-04-10 17:41		Aug-04-10 18:00					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		ND	15.9	ND	15.6	ND	16.2				
C12-C28 Diesel Range Hydrocarbons		752	15.9	ND	15.6	ND	16.2				
C28-C35 Oil Range Hydrocarbons		136	15.9	ND	15.6	ND	16.2				
Total TPH		888	15.9	ND	15.6	ND	16.2				

Brent Barron, II
Odessa Laboratory Manager

XENCO Laboratories
CHRONOLOGY OF HOLDING TIMES

Analytical Method : Percent Moisture

Client : Elke Environmental, Inc.

Work Order #: 384215

Project ID:

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
TP 1 @ 36"	Jul. 30, 2010	Aug. 4, 2010				Aug.5, 2010	45	6	P
Pile	Jul. 30, 2010	Aug. 4, 2010				Aug.5, 2010	45	6	P
TP 5 @ 36"	Jul. 30, 2010	Aug. 4, 2010				Aug.5, 2010	45	6	P

XENCO Laboratories
CHRONOLOGY OF HOLDING TIMES

Analytical Method : Anions by E300 Client : Elke Environmental, Inc.

Work Order #: 384215 Project ID:

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
TP 5 @ 36"	Jul. 30, 2010	Aug. 4, 2010				Aug.5, 2010	28	6	P
TP 1 @ 36"	Jul. 30, 2010	Aug. 4, 2010				Aug.5, 2010	28	6	P
Pile	Jul. 30, 2010	Aug. 4, 2010				Aug.5, 2010	28	6	P

XENCO Laboratories
CHRONOLOGY OF HOLDING TIMES

Analytical Method : TPH By SW8015 Mod

Client : Elke Environmental, Inc.

Work Order #: 384215

Project ID:

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
Pile	Jul. 30, 2010	Aug. 4, 2010	Aug. 4, 2010	14	5	Aug.4, 2010	14	0	P
TP 5 @ 36"	Jul. 30, 2010	Aug. 4, 2010	Aug. 4, 2010	14	5	Aug.4, 2010	14	0	P
TP 1 @ 36"	Jul. 30, 2010	Aug. 4, 2010	Aug. 4, 2010	14	5	Aug.4, 2010	14	0	P

XENCO Laboratories
CHRONOLOGY OF HOLDING TIMES

Analytical Method : BTEX by EPA 8021B Client : Elke Environmental, Inc.

Work Order #: 384215 Project ID:

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
TP 5 @ 36"	Jul. 30, 2010	Aug. 4, 2010				Aug.7, 2010	14	8	P
TP 1 @ 36"	Jul. 30, 2010	Aug. 4, 2010				Aug.7, 2010	14	8	P
Pile	Jul. 30, 2010	Aug. 4, 2010				Aug.7, 2010	14	8	P

F = These samples were analyzed outside the recommended holding time.
P = Samples analyzed within the recommended holding time.

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 effect the recovery of the spike concentration. This condition could also effect 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 MQL and above the SQL.

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

PQL Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Southern Union Gas

Work Orders : 384215,

Project ID:

Lab Batch #: 817943 **Sample:** 570062-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 08/07/10 16:37

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	0.0330	0.0300	110	80-120	

Lab Batch #: 817943 **Sample:** 570062-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 08/07/10 17:01

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0302	0.0300	101	80-120	
4-Bromofluorobenzene	0.0322	0.0300	107	80-120	

Lab Batch #: 817943 **Sample:** 570062-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 08/07/10 18:12

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0249	0.0300	83	80-120	
4-Bromofluorobenzene	0.0294	0.0300	98	80-120	

Lab Batch #: 817943 **Sample:** 384215-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/07/10 18:35

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0253	0.0300	84	80-120	
4-Bromofluorobenzene	0.0310	0.0300	103	80-120	

Lab Batch #: 817943 **Sample:** 384215-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/07/10 18:58

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0296	0.0300	99	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	80-120	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Southern Union Gas

Work Orders : 384215, **Project ID:**

Lab Batch #: 817943 **Sample:** 384215-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/07/10 19:21

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0287	0.0300	96	80-120	

Lab Batch #: 817943 **Sample:** 384215-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/07/10 20:08

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0256	0.0300	85	80-120	
4-Bromofluorobenzene	0.0316	0.0300	105	80-120	

Lab Batch #: 817943 **Sample:** 384215-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/07/10 20:32

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0255	0.0300	85	80-120	
4-Bromofluorobenzene	0.0302	0.0300	101	80-120	

Lab Batch #: 817553 **Sample:** 569791-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 08/04/10 15:02

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	100	114	70-135	
o-Terphenyl	51.8	50.0	104	70-135	

Lab Batch #: 817553 **Sample:** 569791-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 08/04/10 15:22

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	100	114	70-135	
o-Terphenyl	57.5	50.0	115	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

[1] results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Southern Union Gas

Work Orders : 384215, **Project ID:**

Lab Batch #: 817553 **Sample:** 569791-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 08/04/10 15:42

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.0	100	98	70-135	
o-Terphenyl	50.1	50.0	100	70-135	

Lab Batch #: 817553 **Sample:** 384215-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/04/10 17:21

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.9	100	97	70-135	
o-Terphenyl	55.6	50.0	111	70-135	

Lab Batch #: 817553 **Sample:** 384215-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/04/10 17:41

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	100	106	70-135	
o-Terphenyl	54.6	50.0	109	70-135	

Lab Batch #: 817553 **Sample:** 384215-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/04/10 18:00

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.9	100	100	70-135	
o-Terphenyl	51.7	50.0	103	70-135	

Lab Batch #: 817553 **Sample:** 384215-003 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/04/10 21:19

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	47.0	50.0	94	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Southern Union Gas

Work Orders : 384215,

Project ID:

Lab Batch #: 817553 **Sample:** 384215-003 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/04/10 21:38

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	100	114	70-135	
o-Terphenyl	55.1	50.0	110	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Southern Union Gas

Work Order #: 384215 **Project ID:**

Analyst: ASA **Date Prepared:** 08/06/2010 **Date Analyzed:** 08/07/2010

Lab Batch ID: 817943 **Sample:** 570062-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	**Blank Sample Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Spike Added [E]**	**Blank Spike Duplicate Result [F]**	**Blk. Spk Dup. %R [G]**	**RPD %**	**Control Limits %R**	**Control Limits %RPD**	**Flag**
Benzene	ND	0.1000	0.0911	91	0.1	0.0948	95	4	70-130	35	
Toluene	ND	0.1000	0.0838	84	0.1	0.0882	88	5	70-130	35	
Ethylbenzene	ND	0.1000	0.0874	87	0.1	0.0916	92	5	71-129	35	
m,p-Xylenes	ND	0.2000	0.1619	81	0.2	0.1709	85	5	70-135	35	
o-Xylene	ND	0.1000	0.0805	81	0.1	0.0853	85	6	71-133	35	

Analyst: LATCOR **Date Prepared:** 08/05/2010 **Date Analyzed:** 08/05/2010

Lab Batch ID: 817714 **Sample:** 817714-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

Anions by E300	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	**Blank Sample Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Spike Added [E]**	**Blank Spike Duplicate Result [F]**	**Blk. Spk Dup. %R [G]**	**RPD %**	**Control Limits %R**	**Control Limits %RPD**	**Flag**
Chloride	ND	10.0	9.39	94	10	9.82	98	4	75-125	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: Southern Union Gas

Work Order #: 384215
Analyst: BEV
Lab Batch ID: 817553 **Sample:** 569791-1-BKS **Batch #:** 1
Units: mg/kg

Date Prepared: 08/04/2010

Project ID:
Date Analyzed: 08/04/2010
Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1140	114	1000	1130	113	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	867	87	1000	872	87	1	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: Southern Union Gas

Work Order #: 384215
Lab Batch #: 817714
Project ID:
Date Analyzed: 08/05/2010 **Date Prepared:** 08/05/2010 **Analyst:** LATCOR
QC- Sample ID: 383663-001 S **Batch #:** 1 **Matrix:** Soil
Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	18.5	104	132	109	75-125	

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

B - Below Reporting Limit

Form 3 - MS / MSD Recoveries

Project Name: Southern Union Gas

Work Order # : 384215 **Project ID:**

Lab Batch ID: 817943 **QC- Sample ID:** 384215-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 08/07/2010 **Date Prepared:** 08/06/2010 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1061	0.0581	55	0.1061	0.0585	55	1	70-130	35	X
Toluene	ND	0.1061	0.0384	36	0.1061	0.0438	41	13	70-130	35	X
Ethylbenzene	ND	0.1061	0.0247	23	0.1061	0.0334	31	30	71-129	35	X
m,p-Xylenes	ND	0.2121	0.0272	13	0.2121	0.0638	30	80	70-135	35	XF
o-Xylene	ND	0.1061	0.0224	21	0.1061	0.0284	27	24	71-133	35	X

Lab Batch ID: 817553 **QC- Sample ID:** 384215-003 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 08/04/2010 **Date Prepared:** 08/04/2010 **Analyst:** BEV

Reporting Units: mg/kg

TPH By SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1080	1200	111	1080	1200	111	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1080	991	92	1080	1020	94	3	70-135	35	

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

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

Sample Duplicate Recovery

Project Name: Southern Union Gas

Work Order #: 384215

Lab Batch #: 817714 **Project ID:**

Date Analyzed: 08/05/2010 **Date Prepared:** 08/05/2010 **Analyst:** LATCOR

QC- Sample ID: 383663-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Anions by E300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	18.5	16.8	10	20	

Lab Batch #: 817540

Date Analyzed: 08/05/2010 **Date Prepared:** 08/05/2010 **Analyst:** JLG

QC- Sample ID: 384149-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

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

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

Environmental Lab of Texas

A Xenco Laboratories Company

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: Curtis Elam

Company Name: Elke Environmental

Company Address: P O Box 14167

City/State/Zip: Odessa, TX 79768

Telephone No: 432-366-0043 Fax No: 432-366-0884

Sampler Signature:

e-mail: ce_elkeenv@yahoo.com

Project Name: Southern Union Gas

Project #:

Project Loc: Lat A-9

PO #:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 38425

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Pile		n/a	7/30/2010	11:00 AM		1	X								S	X			X					X				X
02	TP 1 @ 36"		36"	7/30/2010	9:00 AM		1	X								S	X			X					X				X
03	TP 5 @ 36"		36"	7/30/2010	9:45 AM		1	X								S	X			X					X				X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	8/4/10	7:10 AM			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Tasha Comeaux	8-4-10	7:15

Laboratory Comments:

VOCs Free of Headspace? ☒ Y ☐ N

Custody seals on container(s) ☒ Y ☐ N

Sample Hand Delivered ☒ Y ☐ N

by Sampler/Client Rep. ? ☒ Y ☐ N

by Courier? UPS DHL FedEx Lone Star

4 oz glass

Temperature Upon Receipt: -0.5 °C

XENCO Laboratories	Document Title: Sample Receipt Checklist
Atlanta, Boca Raton, Corpus Christi, Dallas	Document No.: SYS-SRC
Houston, Miami, Odessa, Philadelphia	Revision/Date: No. 01, 5/27/2010
Phoenix, San Antonio, Tampa	Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Elke Environmental

Date/Time: 7:15 8-4-10

Lab ID # : 384215

Initials: bl

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	N/A	
4. Chain of Custody present?	Yes	No		
5. Sample instructions complete on chain of custody?	Yes	No		
6. Any missing / extra samples?	LC 8-4-10 Yes	No		
7. Chain of custody signed when relinquished / received?	Yes	No	LC 8-04-10	
8. Chain of custody agrees with sample label(s)?	Yes	No		
9. Container labels legible and intact?	Yes	No		
10. Sample matrix / properties agree with chain of custody?	Yes	No		
11. Samples in proper container / bottle?	Yes	No		
12. Samples properly preserved?	Yes	No	N/A	
13. Sample container intact?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	Yes	No		
15. All samples received within sufficient hold time?	Yes	No		
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	Yes	No	N/A	

18. Cooler 1 No.		Cooler 2 No.		Cooler 3 No.		Cooler 4 No.		Cooler 5 No.	
lbs	°C	lbs	°C	lbs	°C	lbs	°C	lbs	°C

Nonconformance Documentation

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

Regarding: _____

_____

Corrective Action Taken: _____

_____

_____

_____

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

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Southern Union Gas Services	Contact	Rose Slade
Address	P.O. Box 1226 Jal, New Mexico 88252	Telephone No.	432-940-5147
Facility Name	Lateral A-9	Facility Type	Natural Gas Pipeline

Surface Owner Kelly Meyers	Mineral Owner	Lease No. 30-025-~~38823~~ 38822

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
"M"	7	24S	37E					Lea

Latitude N 32.22723 degrees **Longitude** W 103.20821 degrees

WTR 100'

NATURE OF RELEASE

Type of Release Natural Gas, Crude Oil and Produced Water	Volume of Release 7 BBLS	Volume Recovered 0 BBLS
Source of Release 4-Inch Steel Pipeline	Date and Hour of Occurrence *June 19, 2010, approx. 1030 hrs	Date and Hour of Discovery *June 19, 2010, 1030 hrs
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

*This release was initially deemed a non-reportable release of three (3) barrels. Following delineation activities, Southern Union has opted to re-classify this release a reportable release of (7) barrels.

The release was caused by internal corrosion of the 4-inch steel pipeline. A temporary pipeline clamp was utilized to mitigate the release during the initial release response. Following initial response activities, a segment of the pipeline has been replaced. No H2S has been detected

Describe Area Affected and Cleanup Action Taken.*
The affected area measures approximately 2,500 square feet. The release will be remediated per NMOCD regulatory guidelines.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Rose L Slade	OIL CONSERVATION DIVISION
Printed Name: Rose L. Slade	Approved by District Supervisor: ENVIRONMENTAL ENGINEER
Title: E.H.S. Compliance Specialist	Approval Date: 7.16.10 Expiration Date: 9.15.10
E-mail Address: rose.slade@sug.com	Conditions of Approval: SUBMIT FINAL C-141 W/DOCS BY Attached ☐ IRP#, 2585
Date: 9/15/2010 Phone: 432-940-5747	

* Attach Additional Sheets If Necessary

10-7

INC nCWJ1019732255
APP pCWJ1019732573