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REMEDIATION SUMMARY & SITE CLOSURE REQUEST

REGENCY FIELD SERVICES

TRUNK "O" #5

HISTORICAL RELEASE SITE

Lea County, New Mexico

Unit Letter "K" (NE/SW), Section 34, Township 22 South, Range 36 East

Latitude 32° 20.714' North, Longitude 103° 15.256' West

NMOCD Reference # 1RP-1523

Prepared For:

Regency Field Services, LLC

801 S. Loop 464

Monahans, TX 79756

Prepared By:

Basin Environmental Service Technologies, LLC

3100 Plains Highway

Lovington, New Mexico 88260

October 2013

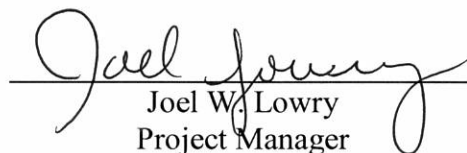

Joel W. Lowry
Project Manager

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1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of Regency Field Services (Regency), has prepared this *Remediation Summary & Site Closure Request* for the Trunk “O” #5 Historical Release Site (IRP-1523). The legal description of the release site is Unit Letter “K” (NE/SW), Section 34, Township 22 South, Range 36 East, in Lea County, New Mexico. The geographic coordinates of the release site are 32° 20.714 North latitude and 103° 15.256' West longitude. The property affected by the release is owned by Beverly Jean Bull. Please reference Figure 1 for a "Site Location Map".

On July 23, 2007, Regency discovered a release had occurred on the Trunk “O” Pipeline. The “Release Notification and Corrective Action Form” (Form C-141) indicated failure of a section of thirty-inch (30”) low-pressure pipeline resulted in the release of approximately five hundred and fifty barrels (550 bbls) of crude oil and nine hundred and forty-five (945) Mcf of natural gas, with five hundred barrels (500 bbls) being recovered. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office on July 23, 2007, at 4:35 p.m. The release was attributed to excess fluid being delivered by a produce,r causing the line to “pressure up” and “leak fluid and natural gas”. The Form C-141 indicated the release affected approximately six thousand, two hundred square feet (6,200 ft²) of pasture land and seven thousand, two hundred square feet (7,200 ft²) of caliche lease road. General photographs of the release site are provided as Appendix A. The Form C-141 is provided as Appendix C.

Previous remediation activities were conducted on the Trunk “O” #5 release site by an environmental contractor that is no longer affiliated with the site. The nature and extent of the aforementioned activities remains unclear, as work records are not readily available. On June 22, 2012, at the request of Regency, Basin assumed remediation responsibilities at the Trunk “O” #5 Historical Release Site.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 34, Township 22 South, Range 36 East. An inferred depth to groundwater gradient map utilized by the NMOCD indicated groundwater should be encountered at approximately three hundred feet (300') below ground surface (bgs). Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

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

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

NMOCD guidelines indicate the Trunk “O” #5 Historical Release Site has an initial ranking score of zero (0) points. The soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene – 10 mg/Kg (ppm)
- Benzene, toluene, ethylbenzene and xylene (BTEX) – 50 mg/Kg (ppm)
- Total petroleum hydrocarbons (TPH) – 5,000 mg/Kg (ppm)

The New Mexico Administrative Code (NMAC) does not currently specify a remediation level for chloride concentrations in soil. Chloride remediation levels are set by the NMOCD on a site-specific basis.

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On November 7, 2012, Basin conducted an initial investigation at the Trunk “O” #5 Historical Release Site. During the initial investigation, four (4) test trenches (TT-1 through TT-4) were advanced within the inferred margins of the release site. During the advancement of the test trenches, soil samples were collected at approximate two-foot (2’) intervals and field screened for concentrations of TPH and chloride. Field test results from soil samples collected from test trenches TT-1 through TT-3 suggested concentrations of TPH and chloride were not present above NMOCD Regulatory Standards. Test trench TT-4 was advanced within the middle of a widely used oil field access road. During the advancement of TT-4, soil exhibiting concentrations of chloride above NMOCD regulatory standards was encountered. Two (2) soil samples (TT-4 @ Surface and TT-4 @ 10’) were collected and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX concentrations were less than the appropriate laboratory method detection limit (MDL) for each of the submitted soil samples. Analytical results indicated TPH concentrations ranged from 338 ppm for soil sample TT-4 @ Surface to 21.0 ppm for soil sample TT-4 @ 10’. Chloride concentrations ranged from 3,380 ppm for soil sample TT-4 @ Surface to 1,690 ppm for soil sample TT-4 @ 10’. Based on laboratory analytical results, it was determined that further delineation was required in the area characterized by TT-4.

On April 30, 2013, one (1) soil bore (SB-1) was advanced in the area of TT-4. During the advancement of the soil bore, five (5) soil samples (SB-1 @ 5’, SB-1 @ 10’, SB-1 @ 15’, SB-1 @ 20’ and SB-1 @ 25’) were collected and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX concentrations were less than the appropriate laboratory MDL for each of the submitted soil samples. Analytical results indicated TPH concentrations ranged from 393 ppm for soil sample SB-1 @ 5’ to less than the laboratory MDL for soil sample SB-1 @ 25’. Chloride concentrations ranged from 722 ppm for soil sample SB-1 @ 5’ to 59.5 ppm for soil sample SB-1 @ 20’. Based on laboratory analytical results, it was determined that soil impact did not exist above regulatory standards beyond fifteen feet (15’) bgs in the area characterized by SB-1.

On August 20, 2013, excavation activities began at the historical release site. The excavation floor and sidewalls were advanced until field tests suggested concentrations of TPH and chloride were below NMOCD standards. The east wall was advanced to the maximum extent practicable given the presence of a widely used oil field access road.

On August 21, 2013, a test trench was advanced in the floor of the excavation within the most heavily impacted area. During the advancement of the test trench, four (4) soil samples (8-21 TT @ 6’, 8-21 TT @ 6’, 8-21 TT @ 8’, 8-21 TT @ 13.5’ and 8-21 TT North) were collected and

submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX concentrations ranged from 49.2 ppm for soil sample 8-21 TT @ 8' to less than the laboratory MDL for soil sample 8-21 TT @ 13.5'. Analytical results indicated TPH concentrations ranged from 11,890 ppm for soil sample 8-21 TT @ 8' to 917 ppm for soil sample 8-21 TT @ 13.5'. Chloride concentrations ranged from 1,020 ppm for soil sample 8-21 TT @ 13.5' to 432 ppm for soil sample 8-21 TT North.

On September 3, 2013, eight (8) confirmation soil samples (North Floor, South Floor, North Wall, South Wall, East Wall #1, East Wall #2, West Wall #1 and West Wall #2) were collected from the excavation floor and sidewalls and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX concentrations were less than the appropriate laboratory MDL in each of the submitted soil samples. Analytical results indicated TPH concentrations ranged from 4,613 ppm for soil sample North Floor to less than the laboratory MDL for soil samples North Wall and South Wall. Chloride concentrations ranged from 608 ppm for soil sample East Wall #2 to 160 ppm for soil sample West Wall #1. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were less than NMOCD regulatory standards in each of the submitted soil samples. Based on laboratory analytical results, it was determined further delineation would be required in the areas represented by soil samples North Floor, North Wall, East Wall #2 and West Wall #2.

In addition, one (1) five-point composite soil sample (9/3 Stockpile) was collected from the stockpiled material and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated soil sample 9/3 Stockpile had a BTEX concentration of 6.13 ppm, a TPH concentration of 2,218 ppm and a chloride concentration of 256 ppm. Based on these laboratory analytical results, it was determined that the stockpiled material was deemed suitable for use as backfill.

On September 4, 2013, four (4) delineation soil samples (North Floor A @ 7', East Wall #2a, West Wall #2a and North Wall A) were collected from the excavation floor and sidewalls and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 192 ppm for soil sample North Floor A @ 7' to 80 ppm for soil sample East Wall #2a.

On September 5, 2013, the floor of the excavation was advanced to approximately fifteen feet (15') bgs in the area characterized by test trench 8-21 TT. Upon advancing the floor of the excavation, four (4) soil samples (North Wall @ 13', South Wall @ 13', East Wall @ 13' and West Wall @ 13') were collected from the excavation sidewalls and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX concentrations were less than the laboratory MDL in each of the submitted soil samples. Analytical results indicated TPH concentrations were less than the laboratory MDL in each of the submitted soil sampled, with the exceptions of North Wall @ 13' and East Wall @ 13', which had concentrations of 15.7 ppm and 24.7 ppm, respectively. Chloride concentrations ranged from 1,100 ppm for soil sample East Wall @ 13' to 304 ppm for soil sample North Wall @ 13'. Further excavation to the east was limited due to the presence of a widely used oilfield access road.

In addition, one (1) test trench (9/6 TT) was advanced within the floor of the excavation. During the advancement of the test trench, two (2) soil samples (9/6 TT @ 18' and 9/6 TT @ 20') were

collected for and submitted to the laboratory for analysis. Laboratory analytical results indicated BTEX and TPH concentrations were less than the appropriate laboratory MDL. Chloride concentrations ranged from 144 ppm for soil sample 9/6 TT @ 18' to 112 ppm for soil sample 9/6 TT @ 20'. Based on laboratory analytical results, vertical delineation had been achieved.

On September 18, 2013, at the request of the NMOCD, the east sidewall was advanced approximately two (2) additional feet. Excavated material was blended with the on-site stockpile. Upon advancing the east sidewall, two (2) soil sample (East SW #2a and 9/18 Stockpile) were collected and submitted to the laboratory for analysis. Laboratory analytical results indicated soil sample East SW #2a exhibited a BTEX concentration of less than the laboratory MDL, a TPH concentration of less than the laboratory MDL and a chloride concentration of 336 ppm. Soil sample 9/18 Stockpile exhibited a BTEX concentration of less than the laboratory MDL, a TPH concentration of 432 ppm and a chloride concentration of 128 ppm. The remaining portion of the excavation was backfilled immediately to minimize the risk to public safety.

Prior to backfilling, the final dimensions of the excavation were approximately ninety feet (90') in length, twelve feet (12') in width and seven (7) to fifteen feet (15') in depth. Excavation backfill was water-packed, compacted in lifts, and contoured to match the surrounding topography. The site will be reseeded in accordance with the landowner's requests.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

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

- BTEX concentrations in accordance with EPA Method SW-846 8021b
- TPH concentrations in accordance with modified EPA Method SW-846 8015M
- Chloride concentrations in accordance with EPA Method 300/300.1 and/or 4500 Cl-b

4.2 Decontamination of Equipment

Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

4.3 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form(s). These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

5.0 SITE CLOSURE REQUEST

Confirmation soil samples collected from floor the and sidewalls of the Trunk “O” #5 excavation were analyzed by an NMOCD-approved laboratory. Laboratory analytical results indicated benzene, BTEX, TPH and chloride concentrations were less than NMOCD regulatory remediation action levels in each of the submitted soil samples. Visibly impacted material on the east sidewall was removed to the maximum extent practicable given the presence of a widely used oilfield access road. Based on these laboratory analytical results, Basin recommends Regency provide the NMOCD Hobbs District Office a copy of this *Remediation Summary & Site Closure Request* and request the NMOCD grant site closure to the Trunk “O” #5 Historical Release Site.

6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin has not conducted an independent examination of the facts contained in referenced materials and statements. Basin has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

7.0 DISTRIBUTION

- Copy 1: Geoffrey Leking
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 1)
1625 French Drive
Hobbs, NM 88240
GeoffreyR.Leking@state.nm.us
- Copy 2: Rachel Johnson
Regency Field Services
801 S. Loop 464
Monahans, Texas 79756
Rachel.johnson@regencygas.com
- Copy 3: Basin Environmental Service Technologies, LLC
P.O. Box 301
Lovington, New Mexico 88260




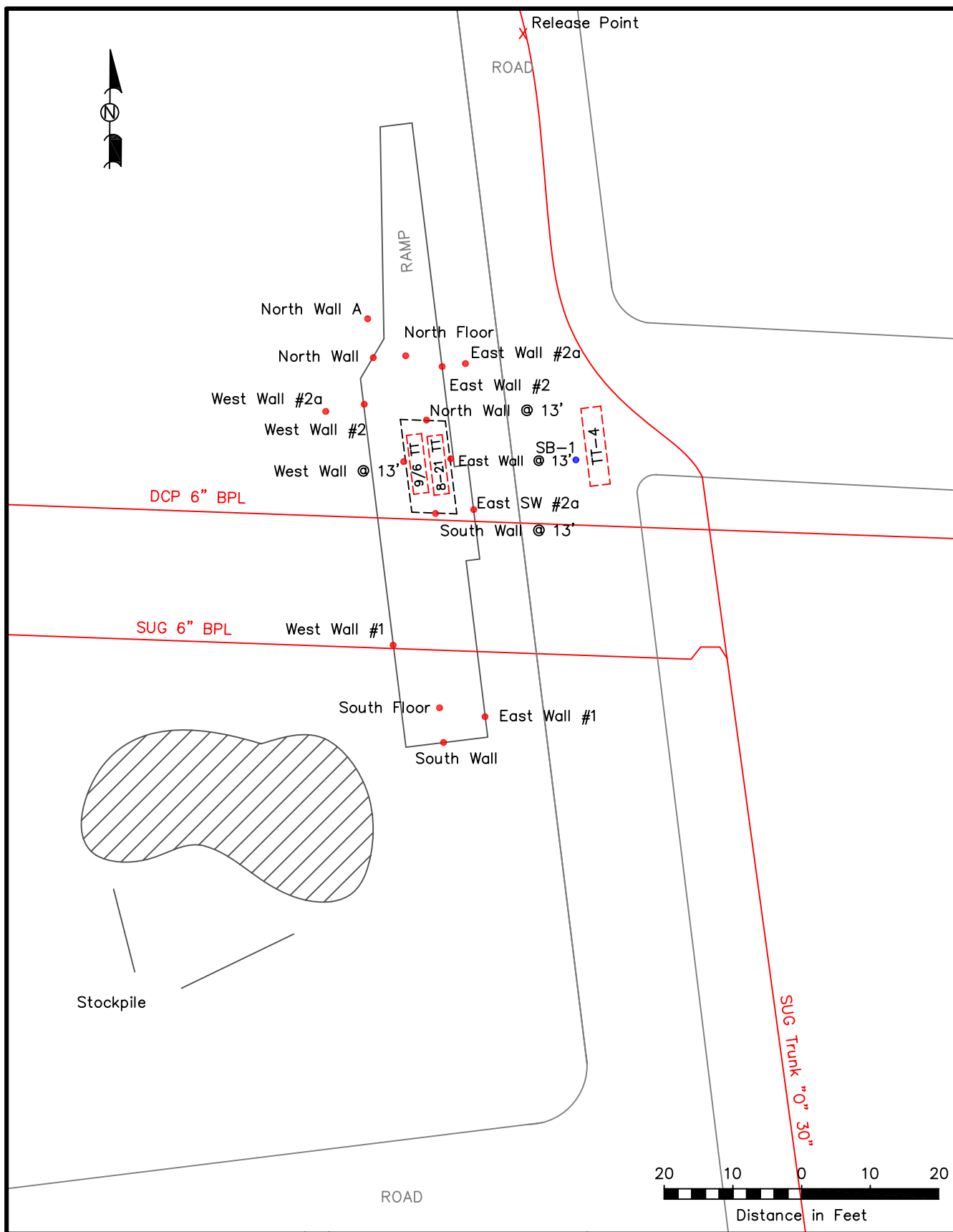
1,000 500 0 1,000 2,000

 Distance in Feet

Figure 1
Site Location Map
 Southern Union Gas Services
 Trunk "O" #5 Historical
 Lea County, New Mexico
 NMOCD Reference #: 1RP-1523



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

Drawn By: BJA	Checked By: JWL
October 16, 2012	Scale: 1" = 2000'



LEGEND:

- Inferred Flowpath
- Sample Location
- Pipeline
- Soil Boring
- Road
- ▨ Stockpile

Figure 2

Site & Sample Location Map
Southern Union Gas Services
Trunk "O" #5 (1RP-1523)
Lea County, NM

Basin Environmental Services

Scale: 1" = 30'	Drawn By: JWL	Prepared By: BRB
November 2, 2012		

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

SOUTHERN UNION GAS SERVICES
TRUNK "O" #5
HISTORICAL RELEASE SITE
LEA COUNTY, NEW MEXICO
NMOCD REF# 1RP-1523

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M			TOTAL	EPA: 300
				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 (mg/Kg)	CHLORIDE (mg/Kg)
TT-4 @ Surface	Surface	10/11/2012	In-Situ	<0.00109	<0.00217	<0.00109	<0.00217	<0.00217	<16.2	315.0	22.7	338.0	3,380
TT-4 @ 10'	10'	10/11/2012	In-Situ	<0.00110	<0.00220	<0.00110	<0.00220	<0.00220	<16.6	21.0	<16.6	21.0	1,690
SB-1 @ 5'	5'	4/30/2013	In-Situ	<0.00105	<0.00210	<0.00105	<0.00210	<0.00210	<15.8	348	44.7	393	722
SB-1 @ 10'	10'	4/30/2013	In-Situ	<0.00104	<0.00209	<0.00104	<0.00209	<0.00209	<15.7	120	<15.7	120	351
SB-1 @ 15'	15'	4/30/2013	In-Situ	<0.00108	<0.00216	<0.00108	<0.00216	<0.00216	<16.2	147	<16.2	147	101
SB-1 @ 20'	20'	4/30/2013	In-Situ	<0.00105	<0.00211	<0.00105	<0.00211	<0.00211	<15.8	18.3	<15.3	18.3	59.5
SB-1 @ 25'	25'	4/30/2013	In-Situ	<0.00104	<0.00208	<0.00104	<0.00208	<0.00208	<15.7	<15.7	<15.7	<15.7	64.9
8-21 TT @ 6'	6'	8/21/2013	Excavated	1.25	5.13	15.4	23.6	45.4	856	6,960	1,280	9,096	600
8-21 TT @ 8'	8'	8/21/2013	Excavated	0.976	6.71	13.5	28.0	49.2	1040	9,140	1710	11,890	608
8-21 TT @ 13.5'	13.5'	8/21/2013	In-Situ	<0.050	<0.050	0.084	0.198	<.300	<10.0	739	178	917.0	1,020
8-21 TT North	6'	8/21/2013	In-Situ	<0.050	0.111	0.561	1.05	1.72	57.3	5,720	1,520	7,297	432
North Floor	6.5'	9/3/2013	In-Situ	<0.200	<0.200	<0.200	<0.600	<1.20	<50.0	3,970	643	4,613	384
South Floor	6.5'	9/3/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	33.9	17.1	51.0	240
North Wall	5'	9/3/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	416
South Wall	5'	9/3/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	192
East Wall #1	5'	9/3/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	244	52.5	297	240
East Wall #2	5'	9/3/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	616	212	828	608
West Wall #1	5'	9/3/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	13.5	25.6	39.1	160
West Wall #2	5'	9/3/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	36.2	15.8	52.0	848
9/3 Stockpile	N/A	9/3/2013	In-Situ	<0.200	0.526	0.877	4.73	6.13	123	1,740	355	2,218	256
North Floor A @ 7'	7'	9/4/2013	In-Situ	-	-	-	-	-	-	-	-	-	192
East Wall #2A	5'	9/4/2013	In-Situ	-	-	-	-	-	-	-	-	-	80
West Wall #2A	5'	9/4/2013	In-Situ	-	-	-	-	-	-	-	-	-	96
North Wall A	5'	9/4/2013	In-Situ	-	-	-	-	-	-	-	-	-	112
North Wall @ 13'	13'	9/6/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	15.7	15.7	304
South Wall @ 13'	13'	9/6/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	464
East Wall @ 13'	13'	9/6/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	24.7	<10.0	24.7	1,100
West Wall @ 13'	13'	9/6/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	832
9/6 TT @ 18'	18'	9/6/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
9/6 TT @ 20'	20'	9/6/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
East SW #2a	8'	9/18/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	336
9/18 Stockpile	N/A	9/18/2013	N/A	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	329	103	432	128
NMOCD Standard				10				50				5,000	1,000



Photograph of surface staining at the Trunk "O" #5 Historical Release Site.



Photograph of the advancement of delineation trenches at the Trunk "O" #5 Historical Release Site.



Photograph of the advancement of soil bores at the Trunk "O" #5 Historical Release Site.



Photograph of hydrocarbon staining and excavation activities and hydrocarbon staining at the Trunk "O" #5 Historical Release Site.



Photograph of the advancement of test trenches at the Trunk "O" #5 Historical Release Site.



Photograph of the impacted east sidewall at the Trunk "O" #5 Historical Release Site.



Photograph of excavation activities at the Trunk "O" #5 Historical Release Site.



Photograph of excavation activities at the Trunk "O" #5 Historical Release Site.



Photograph of excavation activities at the Trunk "O" #5 Historical Release Site.



Photograph of backfilling activities and the compromised 6" pipeline at the Trunk "O" #5 Historical Release Site.



Photograph of the removal of additional soil from the compromised east sidewall at the Trunk "O" #5 Historical Release Site after to pipeline had been removed.



Photograph of the finished remediation site at the Trunk "O" #5 Historical Release Site.

Analytical Report 450843
for
Southern Union Gas Services- Monahans

Project Manager: Joel Lowry

Trunk "O" #5 (1RP-1523)

SUG Historical Releases

22-OCT-12

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Louisiana (04176), USDA (P330-07-00105)

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

Xenco-Lakeland: Florida (E84098)

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

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

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

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

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



22-OCT-12

Project Manager: **Joel Lowry**
Southern Union Gas Services- Monahans
801 South Loop 464
Monahans, TX 79756

Reference: XENCO Report No: **450843**
Trunk "O" #5 (1RP-1523)
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 450843. 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. 450843 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 450843



Southern Union Gas Services- Monahans, Monahans, TX

Trunk "O" #5 (1RP-1523)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TT-4 @ Surface	S	10-11-12 09:30		450843-001
TT-4 @ 10'	S	10-11-12 10:00		450843-002



CASE NARRATIVE

Client Name: Southern Union Gas Services- Monahans

Project Name: Trunk "O" #5 (IRP-1523)



Project ID: SUG Historical Releases

Work Order Number: 450843

Report Date: 22-OCT-12

Date Received: 10/16/2012

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-899095 BTEX by EPA 8021B

SW8021BM

Batch 899095, Benzene, Toluene recovered below QC limits in the Matrix Spike. Ethylbenzene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 450843-001, -002.

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

Certificate of Analysis Summary 450843

Southern Union Gas Services- Monahans, Monahans, TX



Project Id: SUG Historical Releases
Contact: Joel Lowry
Project Location: Lea County, New Mexico

Project Name: Trunk "O" #5 (1RP-1523)

Date Received in Lab: Tue Oct-16-12 02:50 pm

Report Date: 22-OCT-12

Project Manager: Nicholas Straccione

Analysis Requested	Lab Id:	450843-001	450843-002				
	Field Id:	TT-4 @ Surface	TT-4 @ 10'				
	Depth:						
	Matrix:	SOIL	SOIL				
	Sampled:	Oct-11-12 09:30	Oct-11-12 10:00				
BTEX by EPA 8021B	Extracted:	Oct-18-12 09:00	Oct-18-12 09:00				
	Analyzed:	Oct-18-12 10:38	Oct-18-12 10:54				
	Units/RL:	mg/kg RL	mg/kg RL				
Benzene		ND 0.00109	ND 0.00110				
Toluene		ND 0.00217	ND 0.00220				
Ethylbenzene		ND 0.00109	ND 0.00110				
m_p-Xylenes		ND 0.00217	ND 0.00220				
o-Xylene		ND 0.00109	ND 0.00110				
Total Xylenes		ND 0.00109	ND 0.00110				
Total BTEX		ND 0.00109	ND 0.00110				
Inorganic Anions by EPA 300/300.1 SUB: TX104704215	Extracted:	Oct-17-12 23:45	Oct-18-12 00:17				
	Analyzed:	Oct-17-12 23:45	Oct-18-12 00:17				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		3380 10.5	1690 10.1				
Percent Moisture	Extracted:						
	Analyzed:	Oct-18-12 10:35	Oct-18-12 10:40				
	Units/RL:	% RL	% RL				
Percent Moisture		7.49 1.00	9.44 1.00				
TPH By SW8015 Mod	Extracted:	Oct-19-12 08:55	Oct-19-12 08:55				
	Analyzed:	Oct-19-12 22:08	Oct-19-12 22:42				
	Units/RL:	mg/kg RL	mg/kg RL				
C6-C12 Gasoline Range Hydrocarbons		ND 16.2	ND 16.6				
C12-C28 Diesel Range Hydrocarbons		315 16.2	21.0 16.6				
C28-C35 Oil Range Hydrocarbons		22.7 16.2	ND 16.6				
Total TPH		338 16.2	21.0 16.6				

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.
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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 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 **SQL** 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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(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: Trunk "O" #5 (IRP-1523)

Work Orders : 450843,

Project ID: SUG Historical Releases

Lab Batch #: 899095

Sample: 450843-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/18/12 10:38

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0255	0.0300	85	80-120	

Lab Batch #: 899095

Sample: 450843-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/18/12 10:54

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0241	0.0300	80	80-120	

Lab Batch #: 899205

Sample: 450843-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/19/12 22:08

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.5	99.9	97	70-135	
o-Terphenyl	49.2	50.0	98	70-135	

Lab Batch #: 899205

Sample: 450843-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/19/12 22:42

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.8	100	94	70-135	
o-Terphenyl	45.6	50.0	91	70-135	

Lab Batch #: 899095

Sample: 628781-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/18/12 10:23

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0260	0.0300	87	80-120	
4-Bromofluorobenzene	0.0281	0.0300	94	80-120	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Trunk "O" #5 (IRP-1523)

Work Orders : 450843,

Project ID: SUG Historical Releases

Lab Batch #: 899205

Sample: 628850-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/19/12 12:26

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	100	106	70-135	
o-Terphenyl	50.4	50.0	101	70-135	

Lab Batch #: 899095

Sample: 628781-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/18/12 09:53

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0335	0.0300	112	80-120	
4-Bromofluorobenzene	0.0306	0.0300	102	80-120	

Lab Batch #: 899205

Sample: 628850-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/19/12 11:30

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	54.0	50.0	108	70-135	

Lab Batch #: 899095

Sample: 628781-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/18/12 10:08

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	80-120	
4-Bromofluorobenzene	0.0316	0.0300	105	80-120	

Lab Batch #: 899205

Sample: 628850-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/19/12 11:58

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	100	103	70-135	
o-Terphenyl	54.3	50.1	108	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Trunk "O" #5 (1RP-1523)

Work Orders : 450843,

Project ID: SUG Historical Releases

Lab Batch #: 899095

Sample: 450843-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 10/18/12 16:08		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0266	0.0300	89	80-120
4-Bromofluorobenzene		0.0262	0.0300	87	80-120

Lab Batch #: 899205

Sample: 450996-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 10/19/12 23:48		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		103	100	103	70-135
o-Terphenyl		57.0	50.1	114	70-135

Lab Batch #: 899095

Sample: 450843-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 10/18/12 16:51		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0285	0.0300	95	80-120
4-Bromofluorobenzene		0.0282	0.0300	94	80-120

Lab Batch #: 899205

Sample: 450996-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 10/20/12 00:17		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		115	100	115	70-135
o-Terphenyl		60.6	50.1	121	70-135

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Project Name: Trunk "O" #5 (1RP-1523)

Work Order #: 450843

Analyst: KEB

Date Prepared: 10/18/2012

Project ID: SUG Historical Releases

Date Analyzed: 10/18/2012

Lab Batch ID: 899095

Sample: 628781-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	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
Analytes											
Benzene	<0.000992	0.0992	0.0884	89	0.0998	0.0884	89	0	70-130	35	
Toluene	<0.00198	0.0992	0.0895	90	0.0998	0.0898	90	0	70-130	35	
Ethylbenzene	<0.000992	0.0992	0.0884	89	0.0998	0.0879	88	1	71-129	35	
m_p-Xylenes	<0.00198	0.198	0.187	94	0.200	0.186	93	1	70-135	35	
o-Xylene	<0.000992	0.0992	0.0921	93	0.0998	0.0910	91	1	71-133	35	

Analyst: TTE

Date Prepared: 10/17/2012

Date Analyzed: 10/17/2012

Lab Batch ID: 899012

Sample: 628733-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	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
Analytes											
Chloride	<0.977	97.7	96.7	99	97.1	97.7	101	1	80-120	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: Trunk "O" #5 (1RP-1523)

Work Order #: 450843

Analyst: KEB

Date Prepared: 10/19/2012

Project ID: SUG Historical Releases

Date Analyzed: 10/19/2012

Lab Batch ID: 899205

Sample: 628850-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	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
Analytes											
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	1000	100	1000	1010	101	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	1010	101	1000	1010	101	0	70-135	35	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Project Name: Trunk "O" #5 (1RP-1523)

Work Order #: 450843

Lab Batch #: 899012

Date Analyzed: 10/18/2012

Date Prepared: 10/18/2012

Project ID: SUG Historical Releases

Analyst: TTE

QC- Sample ID: 450843-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	3380	1050	4480	105	80-120	

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

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

All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: Trunk "O" #5 (1RP-1523)

Work Order #: 450843

Project ID: SUG Historical Releases

Lab Batch ID: 899095

QC- Sample ID: 450843-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 10/18/2012

Date Prepared: 10/18/2012

Analyst: KEB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
BTEX by EPA 8021B	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
Analytes											
Benzene	<0.00109	0.109	0.0748	69	0.108	0.0903	84	19	70-130	35	X
Toluene	<0.00217	0.109	0.0651	60	0.108	0.0835	77	25	70-130	35	X
Ethylbenzene	<0.00109	0.109	0.0488	45	0.108	0.0593	55	19	71-129	35	X
m_p-Xylenes	<0.00217	0.217	0.0920	42	0.217	0.116	53	23	70-135	35	X
o-Xylene	<0.00109	0.109	0.0501	46	0.108	0.0608	56	19	71-133	35	X

Lab Batch ID: 899205

QC- Sample ID: 450996-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 10/19/2012

Date Prepared: 10/19/2012

Analyst: KEB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
TPH By SW8015 Mod	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
Analytes											
C6-C12 Gasoline Range Hydrocarbons	<17.0	1130	1100	97	1140	1220	107	10	70-135	35	
C12-C28 Diesel Range Hydrocarbons	182	1130	1330	102	1140	1440	110	8	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

Project Name: Trunk "O" #5 (1RP-1523)

Work Order #: 450843

Lab Batch #: 899093

Project ID: SUG Historical Releases

Date Analyzed: 10/18/2012 10:15

Date Prepared: 10/18/2012

Analyst: WRU

QC- Sample ID: 450678-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	7.60	7.76	2	20	

Lab Batch #: 899096

Date Analyzed: 10/18/2012 10:40

Date Prepared: 10/18/2012

Analyst: WRU

QC- Sample ID: 450843-002 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	9.44	9.26	2	20	

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

BRL - Below Reporting Limit



Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Date/ Time Received: 10/16/2012 02:50:00 PM

Work Order #: 450843

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)?	9.7
#2 *Shipping container in good condition?	Yes
#3 *Samples received 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 Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with 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 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 HNO ₃ , HCL, H ₂ SO ₄ ?	Yes
#22 >10 for all samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH?	Yes

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by: _____

Date: 10/16/2012 _____

Checklist reviewed by: _____

Date: 10/16/2012 _____

Analytical Report 462447
for
Southern Union Gas Services- Monahans

Project Manager: Joel Lowry

Trunk "O" #5

(RP-1523)

09-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)



09-MAY-13

Project Manager: **Joel Lowry**
Southern Union Gas Services- Monahans
801 South Loop 464
Monahans, TX 79756

Reference: XENCO Report No(s): **462447**
Trunk "O" #5
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) 462447. 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. 462447 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 462447



Southern Union Gas Services- Monahans, Monahans, TX

Trunk "O" #5

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-1 @ 5'	S	04-30-13 16:30		462447-001
SB-1 @ 10'	S	04-30-13 16:40		462447-002
SB-1 @ 15'	S	04-30-13 16:50		462447-003
SB-1 @ 20'	S	04-30-13 17:00		462447-004
SB-1 @ 25'	S	04-30-13 17:10		462447-005



CASE NARRATIVE

Client Name: Southern Union Gas Services- Monahans

Project Name: Trunk "O" #5



Project ID: (RP-1523)
Work Order Number(s): 462447

Report Date: 09-MAY-13
Date Received: 05/02/2013

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 462447

Southern Union Gas Services- Monahans, Monahans, TX



Project Id: (RP-1523)

Contact: Joel Lowry

Project Name: Trunk "O" #5

Date Received in Lab: Thu May-02-13 01:45 pm

Report Date: 09-MAY-13

Project Location: Lea County, NM

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	462447-001	462447-002	462447-003	462447-004	462447-005	
	<i>Field Id:</i>	SB-1 @ 5'	SB-1 @ 10'	SB-1 @ 15'	SB-1 @ 20'	SB-1 @ 25'	
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	Apr-30-13 16:30	Apr-30-13 16:40	Apr-30-13 16:50	Apr-30-13 17:00	Apr-30-13 17:10	
BTEX by EPA 8021B	<i>Extracted:</i>	May-07-13 08:00	May-07-13 08:00	May-07-13 08:00	May-07-13 08:00	May-07-13 08:00	
	<i>Analyzed:</i>	May-07-13 16:38	May-07-13 18:33	May-07-13 15:33	May-07-13 15:49	May-07-13 16:05	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene		ND 0.00105	ND 0.00104	ND 0.00108	ND 0.00105	ND 0.00104	
Toluene		ND 0.00210	ND 0.00209	ND 0.00216	ND 0.00211	ND 0.00208	
Ethylbenzene		ND 0.00105	ND 0.00104	ND 0.00108	ND 0.00105	ND 0.00104	
m_p-Xylenes		ND 0.00210	ND 0.00209	ND 0.00216	ND 0.00211	ND 0.00208	
o-Xylene		ND 0.00105	ND 0.00104	ND 0.00108	ND 0.00105	ND 0.00104	
Total Xylenes		ND 0.00105	ND 0.00104	ND 0.00108	ND 0.00105	ND 0.00104	
Total BTEX		ND 0.00105	ND 0.00104	ND 0.00108	ND 0.00105	ND 0.00104	
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	May-07-13 11:00	May-07-13 11:00	May-07-13 11:00	May-07-13 11:00	May-07-13 11:00	
	<i>Analyzed:</i>	May-07-13 22:52	May-07-13 23:13	May-07-13 23:35	May-07-13 23:57	May-08-13 00:18	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		722 21.2	351 21.0	101 10.9	59.5 10.6	64.9 4.19	
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	May-03-13 14:53	May-03-13 14:53	May-03-13 15:55	May-03-13 15:55	May-03-13 15:55	
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL	% RL	
Percent Moisture		5.60 1.00	4.77 1.00	7.89 1.00	5.23 1.00	4.43 1.00	
TPH By SW8015 Mod	<i>Extracted:</i>	May-08-13 13:00	May-08-13 13:00	May-08-13 13:00	May-08-13 13:00	May-08-13 13:00	
	<i>Analyzed:</i>	May-08-13 21:42	May-08-13 22:13	May-08-13 22:43	May-08-13 23:15	May-08-13 23:44	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
C6-C12 Gasoline Range Hydrocarbons		ND 15.8	ND 15.7	ND 16.2	ND 15.8	ND 15.7	
C12-C28 Diesel Range Hydrocarbons		348 15.8	120 15.7	147 16.2	18.3 15.8	ND 15.7	
C28-C35 Oil Range Hydrocarbons		44.7 15.8	ND 15.7	ND 16.2	ND 15.8	ND 15.7	
Total TPH		393 15.8	120 15.7	147 16.2	18.3 15.8	ND 15.7	

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

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

Form 2 - Surrogate Recoveries

Project Name: Trunk "O" #5

Work Orders : 462447,

Project ID: (RP-1523)

Lab Batch #: 913084

Sample: 462447-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/07/13 15:33

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0310	0.0300	103	80-120	
4-Bromofluorobenzene	0.0348	0.0300	116	80-120	

Lab Batch #: 913084

Sample: 462447-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/07/13 15:49

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0278	0.0300	93	80-120	
4-Bromofluorobenzene	0.0326	0.0300	109	80-120	

Lab Batch #: 913084

Sample: 462447-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/07/13 16:05

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0262	0.0300	87	80-120	
4-Bromofluorobenzene	0.0263	0.0300	88	80-120	

Lab Batch #: 913084

Sample: 462447-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/07/13 16:38

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0256	0.0300	85	80-120	
4-Bromofluorobenzene	0.0259	0.0300	86	80-120	

Lab Batch #: 913084

Sample: 462447-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/07/13 18:33

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0314	0.0300	105	80-120	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

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

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

Form 2 - Surrogate Recoveries

Project Name: Trunk "O" #5

Work Orders : 462447,

Project ID: (RP-1523)

Lab Batch #: 913249

Sample: 462447-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 05/08/13 21:42		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		111	99.7	111	70-135
o-Terphenyl		53.0	49.9	106	70-135

Lab Batch #: 913249

Sample: 462447-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 05/08/13 22:13		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		105	99.8	105	70-135
o-Terphenyl		49.6	49.9	99	70-135

Lab Batch #: 913249

Sample: 462447-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 05/08/13 22:43		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		108	99.5	109	70-135
o-Terphenyl		51.6	49.8	104	70-135

Lab Batch #: 913249

Sample: 462447-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 05/08/13 23:15		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		108	99.7	108	70-135
o-Terphenyl		50.7	49.9	102	70-135

Lab Batch #: 913249

Sample: 462447-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 05/08/13 23:44		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		107	100	107	70-135
o-Terphenyl		50.1	50.0	100	70-135

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

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

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

Form 2 - Surrogate Recoveries

Project Name: Trunk "O" #5

Work Orders : 462447,

Project ID: (RP-1523)

Lab Batch #: 913084

Sample: 637682-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 05/07/13 13:22		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0291	0.0300	97	80-120
4-Bromofluorobenzene		0.0304	0.0300	101	80-120

Lab Batch #: 913249

Sample: 637796-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 05/08/13 15:08		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1-Chlorooctane		108	99.7	108	70-135
o-Terphenyl		50.9	49.9	102	70-135

Lab Batch #: 913084

Sample: 637682-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 05/07/13 12:49		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0322	0.0300	107	80-120
4-Bromofluorobenzene		0.0325	0.0300	108	80-120

Lab Batch #: 913249

Sample: 637796-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 05/08/13 14:06		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1-Chlorooctane		120	99.6	120	70-135
o-Terphenyl		50.5	49.8	101	70-135

Lab Batch #: 913084

Sample: 637682-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 05/07/13 13:06		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0299	0.0300	100	80-120
4-Bromofluorobenzene		0.0335	0.0300	112	80-120

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

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

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

Form 2 - Surrogate Recoveries

Project Name: Trunk "O" #5

Work Orders : 462447,

Project ID: (RP-1523)

Lab Batch #: 913249

Sample: 637796-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 05/08/13 14:37		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		120	100	120	70-135
o-Terphenyl		48.0	50.0	96	70-135

Lab Batch #: 913084

Sample: 462289-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 05/07/13 14:44		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0339	0.0300	113	80-120
4-Bromofluorobenzene		0.0354	0.0300	118	80-120

Lab Batch #: 913249

Sample: 462447-005 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 05/09/13 00:15		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		118	99.7	118	70-135
o-Terphenyl		45.5	49.9	91	70-135

Lab Batch #: 913084

Sample: 462289-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 05/07/13 15:00		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0343	0.0300	114	80-120
4-Bromofluorobenzene		0.0286	0.0300	95	80-120

Lab Batch #: 913249

Sample: 462447-005 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 05/09/13 00:46		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		125	99.7	125	70-135
o-Terphenyl		49.3	49.9	99	70-135

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

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

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

Project Name: Trunk "O" #5

Work Order #: 462447

Analyst: DYV

Date Prepared: 05/07/2013

Project ID: (RP-1523)

Date Analyzed: 05/07/2013

Lab Batch ID: 913084

Sample: 637682-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	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
Analytes											
Benzene	<0.00100	0.100	0.108	108	0.0990	0.102	103	6	70-130	35	
Toluene	<0.00200	0.100	0.110	110	0.0990	0.107	108	3	70-130	35	
Ethylbenzene	<0.00100	0.100	0.113	113	0.0990	0.114	115	1	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.207	104	0.198	0.211	107	2	70-135	35	
o-Xylene	<0.00100	0.100	0.102	102	0.0990	0.111	112	8	71-133	35	

Analyst: AMB

Date Prepared: 05/07/2013

Date Analyzed: 05/07/2013

Lab Batch ID: 913131

Sample: 637720-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	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
Analytes											
Chloride	<2.00	50.0	50.9	102	50.0	50.5	101	1	80-120	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: Trunk "O" #5

Work Order #: 462447

Analyst: DYV

Date Prepared: 05/08/2013

Project ID: (RP-1523)

Date Analyzed: 05/08/2013

Lab Batch ID: 913249

Sample: 637796-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	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
Analytes											
C6-C12 Gasoline Range Hydrocarbons	<14.9	996	950	95	1000	948	95	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<14.9	996	1070	107	1000	1080	108	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: Trunk "O" #5

Work Order #: 462447

Lab Batch #: 913131

Date Analyzed: 05/08/2013

QC- Sample ID: 462447-005 S

Reporting Units: mg/kg

Project ID: (RP-1523)

Analyst: AMB

Date Prepared: 05/07/2013

Batch #: 1

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	64.9	105	182	112	80-120	

Lab Batch #: 913131

Date Analyzed: 05/07/2013

QC- Sample ID: 462601-001 S

Reporting Units: mg/kg

Date Prepared: 05/07/2013

Analyst: AMB

Batch #: 1

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	161	500	708	109	80-120	

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

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: Trunk "O" #5

Work Order # : 462447

Project ID: (RP-1523)

Lab Batch ID: 913084

QC- Sample ID: 462289-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 05/07/2013

Date Prepared: 05/07/2013

Analyst: DYV

Reporting Units: mg/kg

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	<0.00106	0.106	0.0937	88	0.107	0.0916	86	2	70-130	35	
Toluene	<0.00212	0.106	0.0962	91	0.107	0.0950	89	1	70-130	35	
Ethylbenzene	<0.00106	0.106	0.0962	91	0.107	0.0936	87	3	71-129	35	
m_p-Xylenes	<0.00212	0.212	0.174	82	0.213	0.177	83	2	70-135	35	
o-Xylene	<0.00106	0.106	0.0901	85	0.107	0.0882	82	2	71-133	35	

Lab Batch ID: 913249

QC- Sample ID: 462447-005 S

Batch #: 1 Matrix: Soil

Date Analyzed: 05/09/2013

Date Prepared: 05/08/2013

Analyst: DYV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<15.6	1040	989	95	1040	1000	96	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.6	1040	1150	111	1040	1180	113	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 Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: Trunk "O" #5

Work Order #: 462447

Lab Batch #: 912966

Project ID: (RP-1523)

Date Analyzed: 05/03/2013 12:30

Date Prepared: 05/03/2013

Analyst: WRU

QC- Sample ID: 462435-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	3.80	3.68	3	20	

Lab Batch #: 912969

Date Analyzed: 05/03/2013 15:55

Date Prepared: 05/03/2013

Analyst: WRU

QC- Sample ID: 462447-003 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	7.89	7.90	0	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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Phone: 432-563-1800
Fax: 432-563-1713

Project Name: Trunk "O" #5

Project #: (RP-1523

Project Loc: Lea County, NM

PO #: Bill Southern Union Gas

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

e-mail: pm@basinenv.com, cyrndi.inskeep@sug.com, rose.slade@sug.com

ORDER #

10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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Laboratory Comments:

Labels on container(s)

Sample Hand Delivered

by Courier UPS DHL FEDEX 1011 State St

standard TAT 4 DAY

Final 1.000



Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Date/ Time Received: 05/02/2013 01:45:00 PM

Work Order #: 462447

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)?	3
#2 *Shipping container in good condition?	Yes
#3 *Samples received 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 Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with 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 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,HCL, H2SO4?	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	Yes

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by:

Kelsey Brooks

Date: 05/03/2013

Checklist reviewed by:

Kelsey Brooks

Date: 05/03/2013

August 23, 2013

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: TRUNK 'O' #5

Enclosed are the results of analyses for samples received by the laboratory on 08/22/13 9:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

 Received: 08/22/2013
 Reported: 08/23/2013
 Project Name: TRUNK 'O' #5
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 08/21/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: 8-21 TT @ 6' (H302011-01)

BTX 8021B			mg/kg		Analyzed By: DW				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.25	0.100	08/23/2013	ND	2.10	105	2.00	3.04	
Toluene*	5.13	0.100	08/23/2013	ND	2.14	107	2.00	1.21	
Ethylbenzene*	15.4	0.100	08/23/2013	ND	2.22	111	2.00	1.37	
Total Xylenes*	23.6	0.300	08/23/2013	ND	6.70	112	6.00	1.13	
Total BTX	45.4	0.600	08/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	600	16.0	08/23/2013	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	211	10.0	08/22/2013	ND	214	107	200	7.90	
DRO >C10-C28	1350	10.0	08/22/2013	ND	221	111	200	7.69	
EXT DRO >C28-C35	210	10.0	08/22/2013	ND					

Surrogate: 1-Chlorooctane 96.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.1 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Basin Environmental Service
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 08/22/2013
Reported: 08/23/2013
Project Name: TRUNK 'O' #5
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 08/21/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: 8-21 TT @ 8' (H302011-02)

BTEx 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.976	0.100	08/23/2013	ND	2.10	105	2.00	3.04	
Toluene*	6.71	0.100	08/23/2013	ND	2.14	107	2.00	1.21	
Ethylbenzene*	13.5	0.100	08/23/2013	ND	2.22	111	2.00	1.37	
Total Xylenes*	28.0	0.300	08/23/2013	ND	6.70	112	6.00	1.13	
Total BTEX	49.2	0.600	08/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	08/23/2013	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	302	10.0	08/22/2013	ND	214	107	200	7.90	
DRO >C10-C28	2480	10.0	08/22/2013	ND	221	111	200	7.69	
EXT DRO >C28-C35	445	10.0	08/22/2013	ND					

Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Basin Environmental Service
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 08/22/2013
Reported: 08/23/2013
Project Name: TRUNK 'O' #5
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 08/21/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: 8-21 TT @ 13.5' (H302011-03)

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2013	ND	2.10	105	2.00	3.04	
Toluene*	<0.050	0.050	08/23/2013	ND	2.14	107	2.00	1.21	
Ethylbenzene*	0.084	0.050	08/23/2013	ND	2.22	111	2.00	1.37	
Total Xylenes*	0.198	0.150	08/23/2013	ND	6.70	112	6.00	1.13	
Total BTEX	<0.300	0.300	08/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	08/23/2013	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/23/2013	ND	214	107	200	7.90	
DRO >C10-C28	739	10.0	08/23/2013	ND	221	111	200	7.69	
EXT DRO >C28-C35	178	10.0	08/23/2013	ND					

Surrogate: 1-Chlorooctane 84.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.9 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Basin Environmental Service
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 08/22/2013
Reported: 08/23/2013
Project Name: TRUNK 'O' #5
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 08/21/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: 8-21 TT NORTH (H302011-04)

BTEx 8021B		mg/kg		Analyzed By: DW				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2013	ND	2.10	105	2.00	3.04	
Toluene*	0.111	0.050	08/23/2013	ND	2.14	107	2.00	1.21	
Ethylbenzene*	0.561	0.050	08/23/2013	ND	2.22	111	2.00	1.37	
Total Xylenes*	1.05	0.150	08/23/2013	ND	6.70	112	6.00	1.13	
Total BTEX	1.72	0.300	08/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 178 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	08/23/2013	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	57.3	10.0	08/23/2013	ND	214	107	200	7.90	
DRO >C10-C28	5720	10.0	08/23/2013	ND	221	111	200	7.69	
EXT DRO >C28-C35	1520	10.0	08/23/2013	ND					

Surrogate: 1-Chlorooctane 94.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 199 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

101 East Marland
Hobbs, NM 88240
Tel (575) 393-2326
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101 East Marland
Hobbs, NM 88240
Tel (575) 393-2326
Fax (575) 393-2476

Page 7 of 7



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 05, 2013

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: TRUNK 'O' #5

Enclosed are the results of analyses for samples received by the laboratory on 09/03/13 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Basin Environmental Service
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 09/03/2013
Reported: 09/05/2013
Project Name: TRUNK 'O' #5
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 09/03/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: NORTH FLOOR (H302107-01)

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/04/2013	ND	2.17	108	2.00	0.229	
Toluene*	<0.200	0.200	09/04/2013	ND	2.29	114	2.00	0.178	
Ethylbenzene*	<0.200	0.200	09/04/2013	ND	2.39	120	2.00	0.625	
Total Xylenes*	<0.600	0.600	09/04/2013	ND	7.18	120	6.00	0.734	
Total BTEX	<1.20	1.20	09/04/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	09/05/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: DW/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/04/2013	ND	193	96.3	200	2.38	
DRO >C10-C28	3970	50.0	09/04/2013	ND	189	94.6	200	2.64	
EXT DRO >C28-C35	643	50.0	09/04/2013	ND					

Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 177 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Basin Environmental Service
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 09/03/2013
Reported: 09/05/2013
Project Name: TRUNK 'O' #5
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 09/03/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SOUTH FLOOR (H302107-02)

BTX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2013	ND	2.17	108	2.00	0.229	
Toluene*	<0.050	0.050	09/04/2013	ND	2.29	114	2.00	0.178	
Ethylbenzene*	<0.050	0.050	09/04/2013	ND	2.39	120	2.00	0.625	
Total Xylenes*	<0.150	0.150	09/04/2013	ND	7.18	120	6.00	0.734	
Total BTX	<0.300	0.300	09/04/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/05/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: DW/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/04/2013	ND	193	96.3	200	2.38	
DRO >C10-C28	33.9	10.0	09/04/2013	ND	189	94.6	200	2.64	
EXT DRO >C28-C35	17.1	10.0	09/04/2013	ND					

Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

 Received: 09/03/2013
 Reported: 09/05/2013
 Project Name: TRUNK 'O' #5
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 09/03/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: NORTH WALL (H302107-03)

BTEx 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/04/2013	ND	2.17	108	2.00	0.229		
Toluene*	<0.050	0.050	09/04/2013	ND	2.29	114	2.00	0.178		
Ethylbenzene*	<0.050	0.050	09/04/2013	ND	2.39	120	2.00	0.625		
Total Xylenes*	<0.150	0.150	09/04/2013	ND	7.18	120	6.00	0.734		
Total BTEx	<0.300	0.300	09/04/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	09/05/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: DW/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/04/2013	ND	193	96.3	200	2.38	
DRO >C10-C28	<10.0	10.0	09/04/2013	ND	189	94.6	200	2.64	
EXT DRO >C28-C35	<10.0	10.0	09/04/2013	ND					

Surrogate: 1-Chlorooctane 107 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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Analytical Results For:

Basin Environmental Service
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 09/03/2013
Reported: 09/05/2013
Project Name: TRUNK 'O' #5
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 09/03/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SOUTH WALL (H302107-04)

BTEx 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2013	ND	2.17	108	2.00	0.229	
Toluene*	<0.050	0.050	09/04/2013	ND	2.29	114	2.00	0.178	
Ethylbenzene*	<0.050	0.050	09/04/2013	ND	2.39	120	2.00	0.625	
Total Xylenes*	<0.150	0.150	09/04/2013	ND	7.18	120	6.00	0.734	
Total BTEX	<0.300	0.300	09/04/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/05/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: DW/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/04/2013	ND	193	96.3	200	2.38	
DRO >C10-C28	<10.0	10.0	09/04/2013	ND	189	94.6	200	2.64	
EXT DRO >C28-C35	<10.0	10.0	09/04/2013	ND					

Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 09/03/2013
Reported: 09/05/2013
Project Name: TRUNK 'O' #5
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 09/03/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: EAST WALL #1 (H302107-05)

BTEx 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2013	ND	2.17	108	2.00	0.229	
Toluene*	<0.050	0.050	09/04/2013	ND	2.29	114	2.00	0.178	
Ethylbenzene*	<0.050	0.050	09/04/2013	ND	2.39	120	2.00	0.625	
Total Xylenes*	<0.150	0.150	09/04/2013	ND	7.18	120	6.00	0.734	
Total BTEx	<0.300	0.300	09/04/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/05/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: DW/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/04/2013	ND	193	96.3	200	2.38	
DRO >C10-C28	244	10.0	09/04/2013	ND	189	94.6	200	2.64	
EXT DRO >C28-C35	52.5	10.0	09/04/2013	ND					

Surrogate: 1-Chlorooctane 107 % 65.2-140

Surrogate: 1-Chlorooctadecane 119 % 63.6-154

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Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
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 Lovington NM, 88260
 Fax To: (575) 396-1429

 Received: 09/03/2013
 Reported: 09/05/2013
 Project Name: TRUNK 'O' #5
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 09/03/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: EAST WALL #2 (H302107-06)

BTEx 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/04/2013	ND	2.17	108	2.00	0.229		
Toluene*	<0.050	0.050	09/04/2013	ND	2.29	114	2.00	0.178		
Ethylbenzene*	<0.050	0.050	09/04/2013	ND	2.39	120	2.00	0.625		
Total Xylenes*	<0.150	0.150	09/04/2013	ND	7.18	120	6.00	0.734		
Total BTEx	<0.300	0.300	09/04/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	09/05/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: DW/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/04/2013	ND	193	96.3	200	2.38	
DRO >C10-C28	616	10.0	09/04/2013	ND	189	94.6	200	2.64	
EXT DRO >C28-C35	212	10.0	09/04/2013	ND					

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 145 % 63.6-154

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Analytical Results For:

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Fax To: (575) 396-1429

Received: 09/03/2013
Reported: 09/05/2013
Project Name: TRUNK 'O' #5
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 09/03/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: WEST WALL #1 (H302107-07)

BTEx 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2013	ND	2.17	108	2.00	0.229	
Toluene*	<0.050	0.050	09/04/2013	ND	2.29	114	2.00	0.178	
Ethylbenzene*	<0.050	0.050	09/04/2013	ND	2.39	120	2.00	0.625	
Total Xylenes*	<0.150	0.150	09/04/2013	ND	7.18	120	6.00	0.734	
Total BTEx	<0.300	0.300	09/04/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/05/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: DW/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/04/2013	ND	193	96.3	200	2.38	
DRO >C10-C28	13.5	10.0	09/04/2013	ND	189	94.6	200	2.64	
EXT DRO >C28-C35	25.6	10.0	09/04/2013	ND					

Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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Analytical Results For:

Basin Environmental Service
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 09/03/2013
Reported: 09/05/2013
Project Name: TRUNK 'O' #5
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 09/03/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: WEST WALL #2 (H302107-08)

BTEx 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/04/2013	ND	2.17	108	2.00	0.229		
Toluene*	<0.050	0.050	09/04/2013	ND	2.29	114	2.00	0.178		
Ethylbenzene*	<0.050	0.050	09/04/2013	ND	2.39	120	2.00	0.625		
Total Xylenes*	<0.150	0.150	09/04/2013	ND	7.18	120	6.00	0.734		
Total BTEx	<0.300	0.300	09/04/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	09/05/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: DW/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/04/2013	ND	193	96.3	200	2.38	
DRO >C10-C28	36.2	10.0	09/04/2013	ND	189	94.6	200	2.64	
EXT DRO >C28-C35	15.8	10.0	09/04/2013	ND					

Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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Analytical Results For:

Basin Environmental Service
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 09/03/2013
Reported: 09/05/2013
Project Name: TRUNK 'O' #5
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 09/03/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: 9/3 STOCKPILE (H302107-09)

BTEx 8021B		mg/kg		Analyzed By: DW				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/04/2013	ND	2.17	108	2.00	0.229	
Toluene*	0.526	0.200	09/04/2013	ND	2.29	114	2.00	0.178	
Ethylbenzene*	0.877	0.200	09/04/2013	ND	2.39	120	2.00	0.625	
Total Xylenes*	4.73	0.600	09/04/2013	ND	7.18	120	6.00	0.734	
Total BTEX	6.13	1.20	09/04/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 89.4-126

Chloride, SM4500CI-B			mg/kg					Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/05/2013	ND	416	104	400	0.00	

TPH 8015M			mg/kg					Analyzed By: DW/	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	123	50.0	09/04/2013	ND	193	96.3	200	2.38	
DRO >C10-C28	1740	50.0	09/04/2013	ND	189	94.6	200	2.64	
EXT DRO >C28-C35	355	50.0	09/04/2013	ND					

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 133 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Cardinal Laboratories

101 East Marland
Hobbs, NM 88240
Tel (575) 393-2326
Fax (575) 393-2476

Company Name: Basin Environmental Service Technologies, LLC

Phone #:

(575)396-2378

Address: P.O. Box 301
Lovington, NM 88260

Fax #:

(575)396-1429

Contact Person:

Joel Lowry

E-mail:

pm@basinenr.com, philip.little@sua.com,
cyril.linskeep@regencygas.com,
rachel.johnson@regencygas.com

Invoice to:

Regency Field Services

Project #:

Project Name:

Trunk "O" #5

Project Location:
(include state)

Lea Co., NM

Sampler
Signature: *Joel Lowry*

LAB ID

SAMPLE ID

(LAB USE ONLY)

(G)RAB or (C)OMP

CONTAINERS

WATER
SOIL
AIR
SLUDGE

HCL
HNO₃
H₂SO₄
NaOH
ICE
NONE

DATE
TIME

Chloride
TPH 8015M
BTEX 8021B

RUSH

Hold For BTEX, if TPH <100 ppm Run BTEX

Turn Around Time if different from standard

Hold

ANALYSIS REQUEST
(Circle or Specify Method No.)

as per spec 9/14/13

X

Relinquished by:

Company:

Date:

Received by:

Company:

Date:

Time:

INST #54
OBS °C
COR °C

Relinquished by:

Company:

Date:

Received by:

Company:

Date:

Time:

INST #54
OBS °C
COR °C

Relinquished by:

Company:

Date:

Received by:

Company:

Date:

Time:

INST #54
OBS °C
COR °C

LAB USE ONLY

Intact Y / N

Headspace Y / N / NA

☐ Dry Weight Basis Required

☐ TRRP Report Required

☐ Check if Special Reporting Limits Are Needed

Log-in Review

Carrier #

September 05, 2013

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: TRUNK 'O' #5

Enclosed are the results of analyses for samples received by the laboratory on 09/03/13 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Basin Environmental Service
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 09/03/2013
Reported: 09/05/2013
Project Name: TRUNK 'O' #5
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 09/03/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: DCP STAIN (H302108-01)

BTX 8021B		mg/kg	Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.20	1.00	09/04/2013	ND	2.17	108	2.00	0.229	
Toluene*	16.5	1.00	09/04/2013	ND	2.29	114	2.00	0.178	
Ethylbenzene*	20.2	1.00	09/04/2013	ND	2.39	120	2.00	0.625	
Total Xylenes*	48.5	3.00	09/04/2013	ND	7.18	120	6.00	0.734	
Total BTX	86.5	6.00	09/04/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	09/05/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: DW/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1330	100	09/04/2013	ND	193	96.3	200	2.38	
DRO >C10-C28	9530	100	09/04/2013	ND	189	94.6	200	2.64	
EXT DRO >C28-C35	1540	100	09/04/2013	ND					

Surrogate: 1-Chlorooctane 209 % 65.2-140

Surrogate: 1-Chlorooctadecane 237 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

ANALYSIS REQUEST
(Circle or Specify Method No.)

RUSH
Hold For BTEX, If TPH <100 ppm Run BTEX
Turn Around Time if different from standard
Hold

September 11, 2013

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: TRUNK 'O' #5

Enclosed are the results of analyses for samples received by the laboratory on 09/06/13 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Basin Environmental Service
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 09/06/2013
Reported: 09/11/2013
Project Name: TRUNK 'O' #5
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 09/06/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: N WALL @ 13' (H302161-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2013	ND	1.85	92.6	2.00	6.48	
Toluene*	<0.050	0.050	09/10/2013	ND	1.87	93.3	2.00	7.38	
Ethylbenzene*	<0.050	0.050	09/10/2013	ND	1.93	96.4	2.00	7.53	
Total Xylenes*	<0.150	0.150	09/10/2013	ND	5.78	96.3	6.00	8.29	
Total BTX	<0.300	0.300	09/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	09/10/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2013	ND	208	104	200	0.475	
DRO >C10-C28	<10.0	10.0	09/09/2013	ND	192	96.1	200	3.54	
EXT DRO >C28-C35	15.7	10.0	09/09/2013	ND					

Surrogate: 1-Chlorooctane 76.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.8 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Basin Environmental Service
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 09/06/2013
Reported: 09/11/2013
Project Name: TRUNK 'O' #5
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 09/06/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S WALL @ 13' (H302161-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2013	ND	1.85	92.6	2.00	6.48	
Toluene*	<0.050	0.050	09/10/2013	ND	1.87	93.3	2.00	7.38	
Ethylbenzene*	<0.050	0.050	09/10/2013	ND	1.93	96.4	2.00	7.53	
Total Xylenes*	<0.150	0.150	09/10/2013	ND	5.78	96.3	6.00	8.29	
Total BTEx	<0.300	0.300	09/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	09/10/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2013	ND	208	104	200	0.475	
DRO >C10-C28	<10.0	10.0	09/09/2013	ND	192	96.1	200	3.54	
EXT DRO >C28-C35	<10.0	10.0	09/09/2013	ND					

Surrogate: 1-Chlorooctane 77.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.6 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Basin Environmental Service
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 09/06/2013
Reported: 09/11/2013
Project Name: TRUNK 'O' #5
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 09/06/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: E WALL @ 13' (H302161-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2013	ND	1.85	92.6	2.00	6.48	
Toluene*	<0.050	0.050	09/10/2013	ND	1.87	93.3	2.00	7.38	
Ethylbenzene*	<0.050	0.050	09/10/2013	ND	1.93	96.4	2.00	7.53	
Total Xylenes*	<0.150	0.150	09/10/2013	ND	5.78	96.3	6.00	8.29	
Total BTEX	<0.300	0.300	09/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	09/10/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2013	ND	208	104	200	0.475	
DRO >C10-C28	24.7	10.0	09/09/2013	ND	192	96.1	200	3.54	
EXT DRO >C28-C35	<10.0	10.0	09/09/2013	ND					

Surrogate: 1-Chlorooctane 81.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.4 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Basin Environmental Service
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 09/06/2013
Reported: 09/11/2013
Project Name: TRUNK 'O' #5
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 09/06/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: W WALL @ 13' (H302161-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2013	ND	1.85	92.6	2.00	6.48	
Toluene*	<0.050	0.050	09/10/2013	ND	1.87	93.3	2.00	7.38	
Ethylbenzene*	<0.050	0.050	09/10/2013	ND	1.93	96.4	2.00	7.53	
Total Xylenes*	<0.150	0.150	09/10/2013	ND	5.78	96.3	6.00	8.29	
Total BTEX	<0.300	0.300	09/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	09/10/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2013	ND	208	104	200	0.475	
DRO >C10-C28	<10.0	10.0	09/09/2013	ND	192	96.1	200	3.54	
EXT DRO >C28-C35	<10.0	10.0	09/09/2013	ND					

Surrogate: 1-Chlorooctane 82.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.2 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Basin Environmental Service
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 09/06/2013
Reported: 09/11/2013
Project Name: TRUNK 'O' #5
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 09/06/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: 9/6 TT @ 18' (H302161-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2013	ND	1.85	92.6	2.00	6.48	
Toluene*	<0.050	0.050	09/10/2013	ND	1.87	93.3	2.00	7.38	
Ethylbenzene*	<0.050	0.050	09/10/2013	ND	1.93	96.4	2.00	7.53	
Total Xylenes*	<0.150	0.150	09/10/2013	ND	5.78	96.3	6.00	8.29	
Total BTEX	<0.300	0.300	09/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/10/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2013	ND	208	104	200	0.475	
DRO >C10-C28	<10.0	10.0	09/09/2013	ND	192	96.1	200	3.54	
EXT DRO >C28-C35	<10.0	10.0	09/09/2013	ND					

Surrogate: 1-Chlorooctane 79.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.6 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Basin Environmental Service
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 09/06/2013
Reported: 09/11/2013
Project Name: TRUNK 'O' #5
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 09/06/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: 9/6 TT @ 20' (H302161-06)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2013	ND	1.85	92.6	2.00	6.48	
Toluene*	<0.050	0.050	09/10/2013	ND	1.87	93.3	2.00	7.38	
Ethylbenzene*	<0.050	0.050	09/10/2013	ND	1.93	96.4	2.00	7.53	
Total Xylenes*	<0.150	0.150	09/10/2013	ND	5.78	96.3	6.00	8.29	
Total BTX	<0.300	0.300	09/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/10/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2013	ND	208	104	200	0.475	
DRO >C10-C28	<10.0	10.0	09/09/2013	ND	192	96.1	200	3.54	
EXT DRO >C28-C35	<10.0	10.0	09/09/2013	ND					

Surrogate: 1-Chlorooctane 76.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.7 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

ANALYSIS REQUEST
(Circle or Specify Method No.)

RUSH	<i>5000</i>
Hold For BTEX, If TPH <100 ppm Run BTEX	
Turn Around Time if different from standard	
Hold	

September 25, 2013

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: TRUNK 'O' #5

Enclosed are the results of analyses for samples received by the laboratory on 09/20/13 9:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Basin Environmental Service
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 09/20/2013
Reported: 09/25/2013
Project Name: TRUNK 'O' #5
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 09/18/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: EAST SW #2A (H302294-01)

BTEX 8021B		mg/kg		Analyzed By: MS				A-01a	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2013	ND	1.90	95.0	2.00	8.98	
Toluene*	<0.050	0.050	09/23/2013	ND	2.01	100	2.00	8.85	
Ethylbenzene*	<0.050	0.050	09/23/2013	ND	2.11	105	2.00	8.63	
Total Xylenes*	<0.150	0.150	09/23/2013	ND	6.35	106	6.00	8.10	
Total BTEX	<0.300	0.300	09/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 89.4-126

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	09/24/2013	ND	416	104	400	3.77	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/21/2013	ND	200	100	200	0.330	
DRO >C10-C28	<10.0	10.0	09/21/2013	ND	193	96.4	200	1.85	
EXT DRO >C28-C35	<10.0	10.0	09/21/2013	ND					

Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 119 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Basin Environmental Service
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 09/20/2013
Reported: 09/25/2013
Project Name: TRUNK 'O' #5
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 09/18/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: 9/18 STOCKPILE (H302294-02)

BTEx 8021B		mg/kg	Analyzed By: MS					A-01a	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2013	ND	1.90	95.0	2.00	8.98	
Toluene*	<0.050	0.050	09/23/2013	ND	2.01	100	2.00	8.85	
Ethylbenzene*	<0.050	0.050	09/23/2013	ND	2.11	105	2.00	8.63	
Total Xylenes*	<0.150	0.150	09/23/2013	ND	6.35	106	6.00	8.10	
Total BTEX	<0.300	0.300	09/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/24/2013	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/25/2013	ND	200	100	200	0.330	
DRO >C10-C28	329	10.0	09/25/2013	ND	193	96.4	200	1.85	
EXT DRO >C28-C35	103	10.0	09/25/2013	ND					

Surrogate: 1-Chlorooctane 88.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.7 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

A-01a	Surrogates failed QC limits, High. No target compounds detected above PQL.
A-01	BFB surrogate failed high. No target compounds detected in associated samples.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

101 East Marland
Hobbs, NM 88240
Tel (575) 393-2326
Fax (575) 393-2476

ANALYSIS REQUEST
(Circle or Specify Method No.)

Hold

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
7 Rio Brazos Road, Aztec, NM 87410
District IV
220 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, Ltd.	Contact	Tony Savoie
Address	P.O. Box 1226 Jal, N.M. 88252	Telephone No.	505-395-2116
Facility Name	Lea County Field Dept.	Facility Type	Natural Gas Gathering

Surface Owner: Beverly Jean Bull	Mineral Owner: Fee	Lease No.
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LOCATION OF RELEASE

Unit Letter K	Section 34	Township 22S	Range 36E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
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Latitude N32 20.714 Longitude W103 15.256

NATURE OF RELEASE

Type of Release : Crude Oil, Produced water, and Natural Gas	Volume of Release: 550 Bbbls Fluid and 945 MCF Nat. Gas	Volume Recovered 500 Bbbls crude Oil and produced water
Source of Release : 30" Natural Gas Pipeline	Date and Hour of Occurrence not known 7/23/07 4:15 p.m.	Date and Hour of Discovery 7/23/07 Time: 4:15 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Gary Wink the NMOCD on call representative	
By Whom? Tony Savoie	Date and Hour: 7/23/07 4:35 p.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A 30" Natural Gas gathering line developed a leak due to excess fluid delivered by a producer caused the line to pressure up and leak fluid and natural gas. Crews were repairing a section of line in this area when the leak occurred; a vacuum truck was on hand and started removing fluid within 15 minutes of the pipe failure. Most of the fluid was contained to the bell-hole in the lease road and a large depression in the lease road

Describe Area Affected and Cleanup Action Taken. Approximately 6200 Square feet of pasture land and approximately 7200 square feet of caliche lease road were impacted by the release. Approximately 500 bbls of mostly produced water and crude oil were recovered during the temporary clamping event. The final remediation will follow the NMOCD guidelines for the remediation of leaks and spills.

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

OIL CONSERVATION DIVISION

Signature: *Tony Savoie*

Printed Name: John A. Savoie

Title: Remediation Supervisor

E-mail Address: tony.savoie@sug.com

Date: 8/7/07

Phone: 505-395-2116

Attach Additional Sheets If Necessary

Approved by District Supervisor: *[Signature]*

Approval Date: 8-8-07

Expiration Date: 10-8-07

Conditions of Approval:

Attached ☐

SUBMIT FINAL C-141 w/
SUPPORTING DATA

RP# 1523

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

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Southern Union Gas Services	Contact Crystal D. Callaway
Address 801 South Loop 464, Monahans, TX, 79756	Telephone No. (817) 302-9407
Facility Name: Trunk "O" #5 (RP-1523)	Facility Type Natural Gas Gathering

Surface Owner: Beverly Jean Bull	Mineral Owner Fee	API No.
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LOCATION OF RELEASE

Unit Letter K	Section 34	Township 22S	Range 36E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
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Latitude 32 20.714 Longitude -103 15.256

NATURE OF RELEASE

Type of Release: Crude Oil, Produced water, and Natural Gas	Volume of Release: 550 bbls Fluid and 945 Mcf Nat. Gas	Volume Recovered: 500 bbls crude oil and produced water
Source of Release: 30" Natural Gas Pipeline	Date and Hour of Occurrence: 7/23/07 4:15 p.m.	Date and Hour of Discovery: 7/23/07 Time: 4:15 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Gary Wink the NMOCD on call representative	
By Whom? Tony Savoie	Date and Hour 7/23/07 4:35 p.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken


A 30" Natural Gas gathering line developed a leak due to excess fluid delivered by a producer caused the line to pressure up and leak fluid and natural gas. Crews were repairing a section of line in this area when the leak occurred; a vacuum truck was on hand and started removing fluid within 15 minutes of the pipe failure. Most of the fluid was contained to the bell-hole in the lease road and a large depression in the lease road.

Describe Area Affected and Cleanup Action Taken.* Approximately 6200 Square feet of pasture land and approximately 7200 square feet of caliche lease road were impacted by the release. Approximately 500 bbls of mostly produced water and crude oil were recovered during the temporary clamping event. The final remediation will follow the NMOCD Guidelines for the remediation of leaks and spills.

Laboratory analytical results from confirmation soil samples collected from the excavation floor and sidewalls were sent to an NMOCD approved laboratory which determined concentrations of BTEX, TPH and chloride where less than NMOCD regulatory standards.

Please see the attached Basin Environmental Services Technologies Remediation Summary and Site Closure Request for details of remedial activities and laboratory analytical results from confirmation soil sampling.

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

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Crystal D. Callaway		Approved by Environmental Specialist:	
Title: Senior Environmental Remediation Specialist		Approval Date:	Expiration Date:
E-mail Address: Crystal.Callaway@Regencygas.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/08/2014		Phone: (817) 302-9407	