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REMEDIATION SUMMARY & SITE CLOSURE REQUEST

SOUTHERN UNION GAS SERVICES

TRUNK "O" #3 (1RP-1509)

HISTORICAL RELEASE SITE

Lea County, New Mexico

Unit Letter "N" (SE/SW), Section 27, Township 22 South, Range 36 East

Latitude 32° 21.511' North, Longitude 103° 15.408' West

NMOCD Reference # 1RP-1509

Prepared For:

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

Prepared By:

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

November 2012

Joel W. Lowry
Project Manager

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1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of Southern Union Gas Services (Southern Union), has prepared this *Remediation Summary & Site Closure Request* for the Trunk “O” #3 Historical Release Site (IRP-1509). The legal description of the release site is Unit Letter “N” (SE/SW), Section 27, Township 22 South, Range 36 East, in Lea County, New Mexico. The geographic coordinates of the release site are 32° 21.511' North latitude and 103° 15.408' West longitude. The property affected by the release is owned by Mr. Mathew Casey. Please reference Figure 1 for a "Site Location Map".

On July 21, 2007, Southern Union discovered a release had occurred on the Trunk “O” Pipeline. Failure of a section of thirty-inch (30”) low-pressure pipeline resulted in the release of approximately fifty barrels (50 bbls) of fluid and three hundred sixty (360) mcf of natural gas. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office on July 21, 2007. The “Release and Corrective Action” (Form C-141) indicated the release affected approximately five thousand, one hundred square feet (5,100 ft²) of pasture land and three thousand, six hundred seventy-two square feet (3,672 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.

Prior to June 2012, remediation activities were conducted on the Trunk “O” #3 Release Site by an environmental contractor that is no longer affiliated with the site. The nature and extent of the aforementioned activities remains unclear, as environmental reports and work records are not readily available.

During June 2012, Basin assumed remediation responsibilities at the Trunk “O” #3 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 27, Township 22 South, Range 36 East. A depth to groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately two hundred seventy-five feet (275') 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” #3 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 August 10, 2012, Basin responded to the Trunk “O” #3 Historical Release Site. An initial investigation indicated previous remediation activities had been conducted at the release site. A series of test trenches were advanced in the disturbed areas exhibiting moderate staining in an effort to determine if impacted soil containing BTEX, TPH and chloride concentrations above NMOCD regulatory standards remained in-situ.

Test Trench #1 was advanced to approximately four feet (4') bgs near the center of the inferred pooling area of the release, within the visually impacted area. During the advancement of the test trench, select soil samples were field-screened using a photo-ionization detector (PID) and chloride field test kit. Two (2) soil samples (TT-1 @ Surface and TT-1 North End @ 3.5') were collected and submitted to TraceAnalysis Inc., of Midland, Texas, for determination of BTEX, TPH and chloride concentrations in accordance with EPA Methods SW 846-8021B, SW 846-8015M and SM 4500-Cl B, respectively. Laboratory analytical results indicated benzene and BTEX concentrations were less than the appropriate laboratory method detection limit (MDL) for each of the soil samples submitted. Analytical results indicated TPH concentrations ranged from less than the laboratory MDL for soil sample TT-1 North End @ 3.5' to 600 mg/Kg for soil sample TT-1 @ Surface. Chloride concentrations ranged from less than the laboratory MDL for soil sample TT-1 @ Surface to 213 mg/Kg for soil sample TT-1 North End @ 3.5'. Table 1 summarizes the “Concentrations of Benzene, BTEX, TPH & Chloride in Soil”. Laboratory analytical reports are provided as Appendix B.

Test Trench #2 was advanced approximately fifteen feet (15') southwest of the inferred primary pooling area, within the visually impacted area. Test Trench #2 was advanced to approximately four feet (4') bgs. During the advancement of the test trench, select soil samples were field-screened using a PID and chloride field test kit. Two (2) soil samples (TT-2 @ Surface and TT-2 @ 4') were collected and submitted to the laboratory for analysis. Laboratory analytical results indicated benzene, BTEX and TPH concentrations were less than the appropriate laboratory MDL for each of the submitted soil samples. Chloride concentrations ranged from less than the laboratory MDL for soil sample TT-2 @ Surface to 39.8 mg/Kg for soil sample TT-2 @ 4'.

On September 5, 2012, Basin began remediation activities at the Trunk “O” #3 Historical Release Site. To better facilitate remediation activities, the release site was divided into two areas. “Excavation A” was located on the east side of the lease road, and “Excavation B” was located on the west side of the lease road. Visually impacted material was excavated and stockpiled on-site, pending final disposition. The floor and sidewalls of each respective excavation were advanced until field tests suggested concentrations of benzene, BTEX, TPH and chloride were below NMOCD regulatory remediation action levels.

On September 14, 2012, five (5) soil samples (A North Wall, A East Wall, A South Wall, A West Wall and A Floor) were collected from the floor and sidewalls of “Excavation A” and submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride concentrations. Laboratory analytical results indicated benzene concentrations were less than the laboratory MDL for each of the soil samples submitted. Analytical reports indicated BTEX concentrations ranged from less than the laboratory MDL for soil samples A East Wall, A South Wall, A West Wall and A Floor to 0.0297 mg/Kg for soil sample A North Wall. TPH concentrations ranged from less than the laboratory MDL for soil sample A East Wall to 1,329 mg/Kg for soil sample A South Wall. Chloride concentrations ranged from 63 mg/Kg for soil sample A South Wall to 1,800 mg/Kg for soil sample A Floor. Concentrations of benzene, BTEX, TPH and chloride were below NMOCD regulatory remediation action levels in each of the submitted soil samples, with the exception of soil sample A Floor. The excavation floor was advanced and additional one (1) foot in the area represented by soil sample A Floor. Soil sample locations are depicted in Figure 2a, “Site & Sample Location Map (Excavation A)”.

One (1) five-point composite soil sample (A Stockpile) was collected from the stockpile material excavated from “Excavation A” and submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride concentrations. Laboratory analytical results indicated the benzene and BTEX concentrations were less than the appropriate laboratory MDL. Analytical results indicated the TPH concentration was 1,138.2 mg/Kg. The chloride concentration was 229 mg/Kg. Based on laboratory analytical results, the stockpiled material was deemed suitable for use as backfill material.

On September 14, 2012, ten (10) soil samples (B North Wall #1, B North Wall #2, B North Wall #3, B South Wall #1, B South Wall #2, B South Wall #3, B East Wall, B West Wall, B Floor #1 and B Floor #2) were collected from the floor and sidewalls of “Excavation B” and submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride concentrations. Laboratory analytical results indicated benzene and BTEX concentrations were less than the appropriate laboratory MDL for each of the submitted soil samples. TPH concentrations were less than the laboratory MDL for each of the submitted soil samples, with the exception of soil sample B Floor #1, which had a concentration of 50.4 mg/Kg. Chloride concentrations ranged from less than the laboratory MDL for soil samples B North Wall #2 and B South Wall #3 to 142 mg/Kg for soil sample B Floor #2. Concentrations of benzene, BTEX, TPH and chloride were below NMOCD regulatory remediation action levels in each of the submitted soil samples. Soil sample locations are depicted in Figure 2b, “Site & Sample Location Map (Excavation B)”.

One (1) five-point composite soil sample (B Stockpile) was collected from the stockpile material excavated from “Excavation B” and submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride concentrations. Laboratory analytical results indicated benzene and BTEX concentrations were less than the appropriate laboratory MDL. Analytical results indicated the TPH concentration was 292 mg/Kg. The chloride concentration was 80.3 mg/Kg. Based on these laboratory analytical reports, the stockpiled material was deemed suitable for use as backfill.

On October 1, 2012, the floor of “Excavation A” was advanced an additional foot. One (1) soil sample (A Floor @ 4’) was collected from the floor of “Excavation A” and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated the chloride concentration within the newly advanced floor was 477 mg/Kg. Based on laboratory analytical reports, it was determined that the floor of the excavation had been sufficiently advanced, but further delineation was necessary. Material generated from the advancement of the floor of “Excavation A” was blended with the existing stockpiled material. One five-point composite stockpile soil sample was collected and field screened for concentrations of chloride. The field test indicated the chloride concentration was less than 250 mg/Kg.

On October 3, 2012, the Southeast corner of “Excavation A” was advanced an additional foot. One soil sample (A Floor @ 5’) was collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated the chloride concentration was 10.0 mg/Kg. Based on laboratory analytical reports, it was determined that vertical delineation had been achieved.

On November 1, 2012, upon receiving NMOCD approval, the excavations were backfilled with their respective blended stockpile material. Prior to backfilling, the final dimensions of “Excavation A” were forty-five feet (45’) in length, twenty-seven feet (27’) in width, and four feet (4’) in depth. The final dimensions of “Excavation B” were one hundred feet (100’) in length, fifteen feet (15’) in width, and two feet (2’) in depth. The site will be reseeded with a landowner-approved seed mixture at a time conducive to germination.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to TraceAnalysis, Inc., of Midland, Texas, for BTEX, TPH, and/or chloride analyses using the methods described below:

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

The excavation floors and sidewalls at the Trunk “O” #3 Historical Release Site were advanced until laboratory analytical results from confirmation soil samples indicated benzene, BTEX, TPH and chloride concentrations were less than NMOCD regulatory remediation action levels established for the site. Impacted soil was excavated and blended on-site. Based on these laboratory analytical results, Basin recommends Southern Union provide the NMOCD Hobbs District Office a copy of this *Remediation Summary & Site Closure Request* and request the NMOCD grant site closure to the Trunk “O” #3 Historical Release Site.

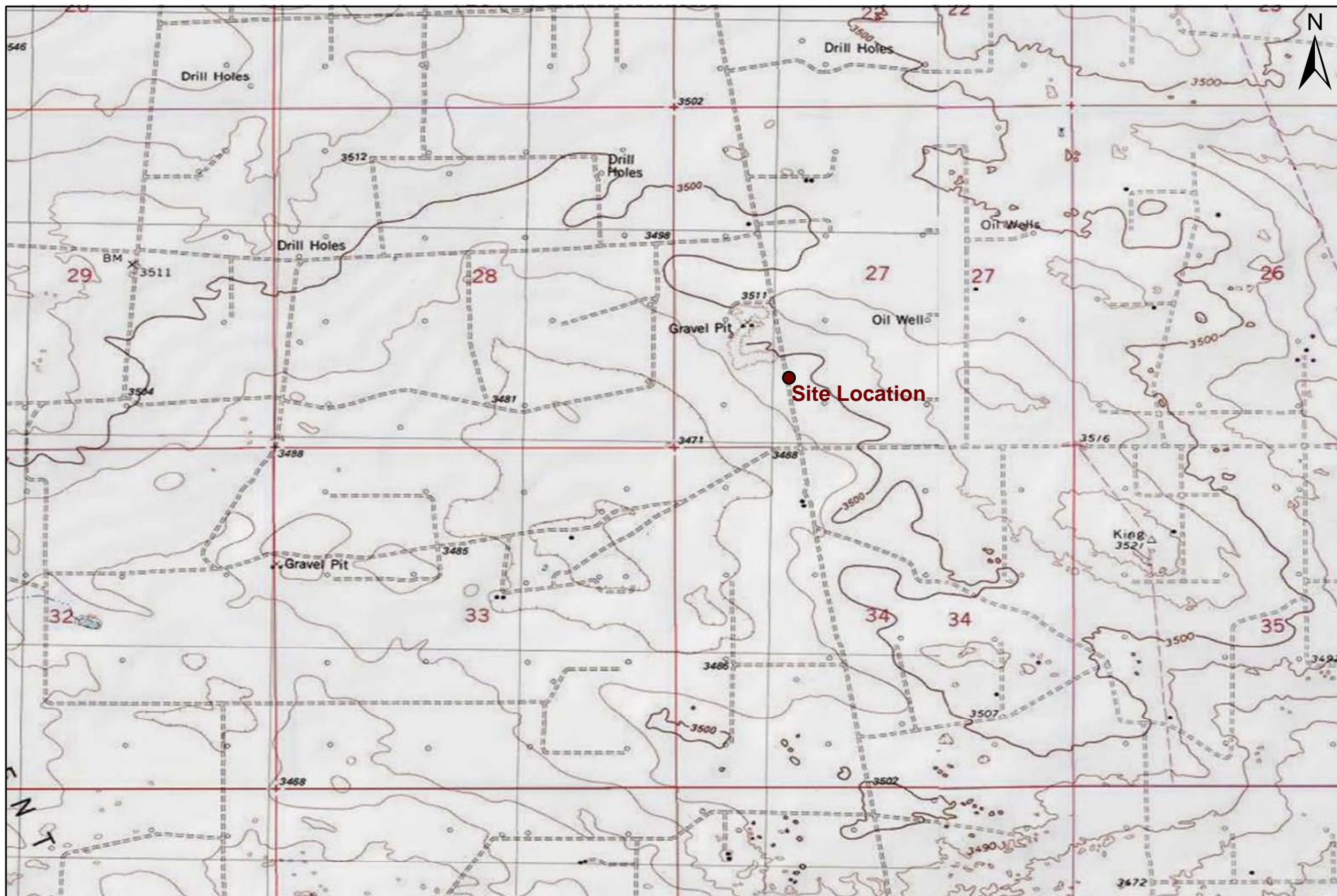
6.0 LIMITATIONS

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

This report has been prepared for the benefit of Southern Union Gas Services. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and/or Southern Union Gas Services.

7.0 DISTRIBUTION

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- Copy 3: Basin Environmental Service Technologies, LLC
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1,000 500 0 1,000 2,000
 Distance in Feet

Figure 1
Site Location Map
 Southern Union Gas Services
 Trunk "O" #3
 Lea County, New Mexico
 NMOCD Reference #: 1RP-1509

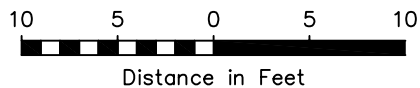
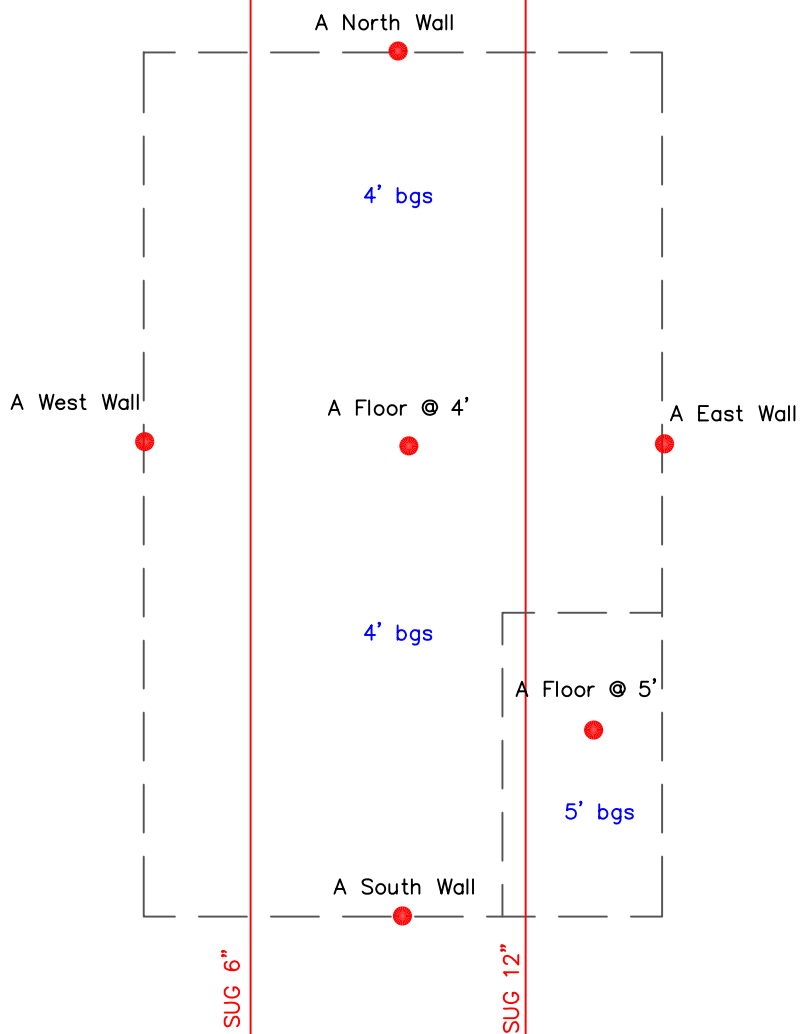


Basin Environmental Service Technologies, LLC
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Drawn By: BJA	Checked By: JWL
August 6, 2012	Scale: 1" = 2000'



ROAD



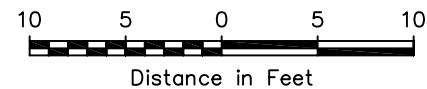
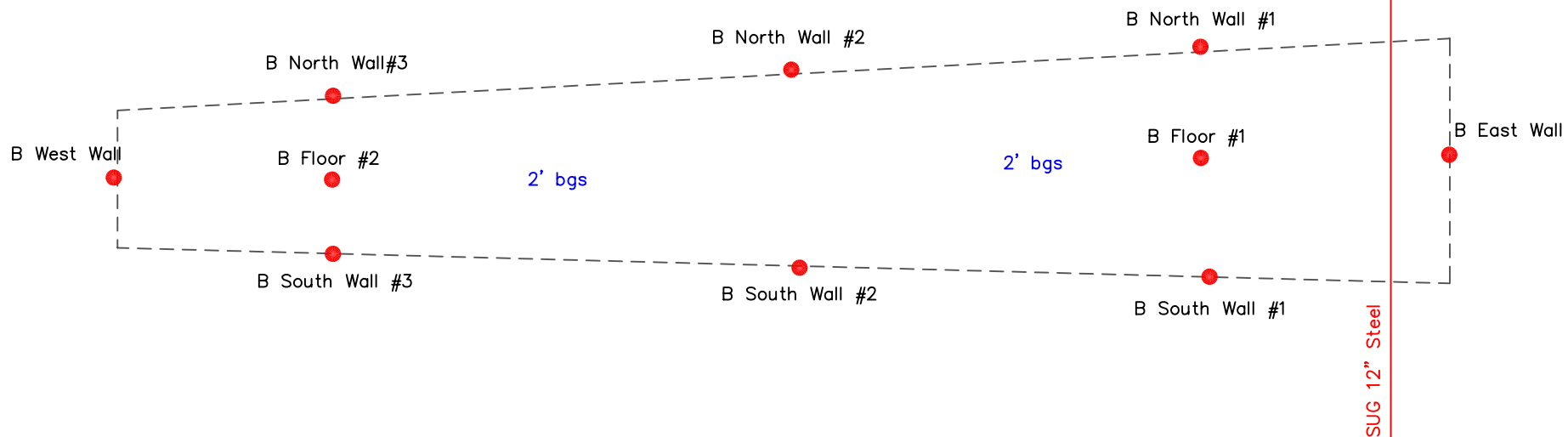
LEGEND:

- Excavation Extent
- Sample Location
- Pipeline
- Road

Figure 2a
Site & Sample Location Map
Southern Union Gas Services
Trunk "O" #3 (East)
NMOCD Ref RP-1509
Lea County, New Mexico

Basin Environmental Services

Scale: 1" = 10'	Drawn By: JWL	Prepared By: BRB
October 9, 2012		



Legend

- Sample Location
- Road
- - - Excavation Extent
- Pipeline

Figure 2b
Site & Sample Location Map
Southern Union Gas Services
Trunk "O" #3 (West)
NMOCD Ref RP-1509
Lea County, New Mexico

Basin Environmental Services

Prep By: JWL

Checked By: BJA

October 9, 2012

Scale 1"=10'

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

SOUTHERN UNION GAS SERVICES
TRUNK "O" #3
HISTORICAL RELEASE SITE
LEA COUNTY, NEW MEXICO
NMOCD REF# 1RP-1509

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M			TOTAL TPH C ₆ -C ₃₅ (mg/Kg)	SM 4500-Cl B CHLORIDE (mg/Kg)
				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)		
TT-1 @ Surface	Surface	8/10/2012	In-Situ	<0.100	<0.100	<0.100	<0.100	<0.100	<20.0	600	<250	600	<5.00
TT-1 North End @ 3.5'	3.5'	8/10/2012	In-Situ	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<4.00	<50.0	<50.0	<50.0	213
TT-2 @ Surface	Surface	8/10/2012	In-Situ	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<4.00	<50.0	<50.0	<50.0	<5.00
TT-2 @ 4'	4'	8/10/2012	In-Situ	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<4.00	<50.0	<50.0	<50.0	39.8
A Stockpile	N/A	9/14/2012	Stockpiled	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	18.2	1,120	<85.5	1,138	229
A North Wall	2'	9/14/2012	In-Situ	<0.0200	<0.0200	<0.0200	0.0297	0.0297	<4.00	276	193	469	112
A East Wall	2'	9/14/2012	In-Situ	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<4.00	<50.0	<50.0	<50.0	156
A South Wall	2'	9/14/2012	In-Situ	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<4.00	738	591	1,329	63
A West Wall	2'	9/14/2012	In-Situ	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<4.00	652	268	920	100
A Floor	3'	9/14/2012	Excavated	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<4.00	70.5	<50.0	70.5	1800
B North Wall #1	1'	9/14/2012	In-Situ	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<4.00	<50.0	<50.0	<50.0	129
B North Wall #2	1'	9/14/2012	In-Situ	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<4.00	<50.0	<50.0	<50.0	<20.0
B North Wall #3	1'	9/14/2012	In-Situ	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<4.00	<50.0	<50.0	<50.0	28.7
B South Wall #1	1'	9/14/2012	In-Situ	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<4.00	<50.0	<50.0	<50.0	28.7
B South Wall #2	1'	9/14/2012	In-Situ	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<4.00	<50.0	<50.0	<50.0	57.4
B South Wall #3	1'	9/14/2012	In-Situ	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<4.00	<50.0	<50.0	<50.0	<20.0
B East Wall	1'	9/14/2012	In-Situ	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<4.00	<50.0	<50.0	<50.0	90.9
B West Wall	1'	9/14/2012	In-Situ	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<4.00	<50.0	<50.0	<50.0	76.6
B Floor #1	2'	9/14/2012	In-Situ	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<4.00	<50.0	50.4	50.4	56.7
B Floor #2	2'	9/14/2012	In-Situ	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<4.00	<50.0	<50.0	<50.0	142
B Stockpile	N/A	9/14/2012	Stockpiled	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<4.00	119	173	292	80.3
A Floor @ 4'	4'	10/1/2012	In-Situ	-	-	-	-	-	-	-	-	-	477
A Floor @ 5'	5'	10/3/2012	In-Situ	-	-	-	-	-	-	-	-	-	10.0
NMOCD Standard				10				50				5,000	1,000

- = Not analyzed.



Photograph of initial release at the Trunk "O" #3 Historical Release Site.



Photograph of initial release at the Trunk "O" #3 Historical Release Site.



Photograph of initial release at the Trunk "O" #3 Historical Release Site.



Photograph of delineation activities at the Trunk "O" #3 Historical Release Site.



Photograph of excavation activities at the Trunk "O" #3 Historical Release Site.



Photograph of excavation activities and sample locations at the Trunk "O" #3 Historical Release Site.



Photograph of excavation activities and sample locations at the Trunk "O" #3 Historical Release Site.



Photograph of excavation activities and sample locations at the Trunk "O" #3 Historical Release Site.



Photograph of the Trunk "O" #3 Historical Release Site after backfilling.



Photograph of the Trunk "O" #3 Historical Release Site after backfilling.



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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Rose Slade
Southern Union Gas Services, Ltd.-Monahans
801 S. Loop 464
Monahans, TX, 79756

Report Date: August 23, 2012

Work Order: 12081632



Project Location: Lea Co., NM
Project Name: Trunk O #3 (1RP-1509)
Project Number: SUG Historical Releases

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
306933	TT-1 @ Surface	soil	2012-08-10	10:00	2012-08-16
306934	TT-1 North End @ 3.5'	soil	2012-08-10	10:15	2012-08-16
306935	TT-2 @ Surface	soil	2012-08-10	11:00	2012-08-16
306936	TT-2 @ 4'	soil	2012-08-10	11:15	2012-08-16

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 23 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

For inorganic analyses, the term MQL should actually read PQL.

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

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QC Batch 94086 - LCS (1)	14
QC Batch 94156 - LCS (1)	14
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Case Narrative

Samples for project Trunk O #3 (1RP-1509) were received by TraceAnalysis, Inc. on 2012-08-16 and assigned to work order 12081632. Samples for work order 12081632 were received intact at a temperature of 3.5 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	79813	2012-08-22 at 12:56	94162	2012-08-22 at 12:56
Chloride (Titration)	SM 4500-Cl B	79810	2012-08-23 at 06:15	94156	2012-08-23 at 08:06
TPH DRO - NEW	S 8015 D	79748	2012-08-20 at 08:00	94082	2012-08-21 at 08:20
TPH GRO	S 8015 D	79813	2012-08-22 at 12:56	94163	2012-08-22 at 12:56
TPH ORO	S 8015 D	79755	2012-08-20 at 08:00	94086	2012-08-21 at 10:41

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 12081632 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 306933 - TT-1 @ Surface

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 94162

Prep Batch: 79813

Analytical Method: S 8021B

Date Analyzed: 2012-08-22

Sample Preparation: 2012-08-22

Prep Method: S 5035

Analyzed By: MT

Prepared By: MT

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	¹	U	1	<0.0182	<0.100	<0.0182	mg/Kg	5	0.0182	0.00365
Toluene		U	1	<0.0408	<0.100	<0.0408	mg/Kg	5	0.0408	0.00816
Ethylbenzene		U	1	<0.0280	<0.100	<0.0280	mg/Kg	5	0.0280	0.0056
Xylene		U	1	<0.0230	<0.100	<0.0230	mg/Kg	5	0.0230	0.0046

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.85	mg/Kg	5	2.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)			1.93	mg/Kg	5	2.00	96	70 - 130

Sample: 306933 - TT-1 @ Surface

Laboratory: Lubbock

Analysis: Chloride (Titration)

QC Batch: 94156

Prep Batch: 79810

Analytical Method: SM 4500-Cl B

Date Analyzed: 2012-08-23

Sample Preparation: 2012-08-23

Prep Method: N/A

Analyzed By: AH

Prepared By: AH

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	J,Qs		3.84	<5.00	<3.05	mg/Kg	1	3.05	5	3.05

Sample: 306933 - TT-1 @ Surface

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 94082

Prep Batch: 79748

Analytical Method: S 8015 D

Date Analyzed: 2012-08-21

Sample Preparation: 2012-08-20

Prep Method: N/A

Analyzed By: CW

Prepared By: CW

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
DRO	Qr	2	600	600	<72.5	mg/Kg	5	72.5	50	14.5

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Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	J, Qsr		185	mg/Kg	5	100	185	70 - 130

Sample: 306933 - TT-1 @ Surface

Laboratory: Lubbock
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 94163 Date Analyzed: 2012-08-22 Analyzed By: MT
Prep Batch: 79813 Sample Preparation: 2012-08-22 Prepared By: MT

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	J	1	8.47	<20.0	<1.80	mg/Kg	5	1.80	4	0.359

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	J		1.99	mg/Kg	5	2.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)	J		2.00	mg/Kg	5	2.00	100	70 - 130

Sample: 306933 - TT-1 @ Surface

Laboratory: Midland
Analysis: TPH ORO Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 94086 Date Analyzed: 2012-08-21 Analyzed By: CW
Prep Batch: 79755 Sample Preparation: 2012-08-20 Prepared By: CW

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
ORO	U		<72.5	<250	<72.5	mg/Kg	5	72.5	50	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	J, Qsr		236	mg/Kg	5	100	236	70 - 130
n-Triacontane	J		92.8	mg/Kg	5	100	93	70 - 130

Sample: 306934 - TT-1 North End @ 3.5'

Laboratory: Lubbock
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 94162 Date Analyzed: 2012-08-22 Analyzed By: MT
Prep Batch: 79813 Sample Preparation: 2012-08-22 Prepared By: MT

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	1	<0.00365	<0.0200	<0.00365	mg/Kg	1	0.00365	0.02	0.00365
Toluene	u	1	<0.00816	<0.0200	<0.00816	mg/Kg	1	0.00816	0.02	0.00816
Ethylbenzene	u	1	<0.00560	<0.0200	<0.00560	mg/Kg	1	0.00560	0.02	0.0056
Xylene	u	1	<0.00460	<0.0200	<0.00460	mg/Kg	1	0.00460	0.02	0.0046

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.79	mg/Kg	1	2.00	90	70 - 130
4-Bromofluorobenzene (4-BFB)			1.83	mg/Kg	1	2.00	92	70 - 130

Sample: 306934 - TT-1 North End @ 3.5'

Laboratory: Lubbock
 Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
 QC Batch: 94156 Date Analyzed: 2012-08-23 Analyzed By: AH
 Prep Batch: 79810 Sample Preparation: 2012-08-23 Prepared By: AH

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride	Qs		213	213	<6.10	mg/Kg	2	6.10	5	3.05

Sample: 306934 - TT-1 North End @ 3.5'

Laboratory: Midland
 Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
 QC Batch: 94082 Date Analyzed: 2012-08-21 Analyzed By: CW
 Prep Batch: 79748 Sample Preparation: 2012-08-20 Prepared By: CW

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
DRO	J,Qr	2	17.6	<50.0	<14.5	mg/Kg	1	14.5	50	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			116	mg/Kg	1	100	116	70 - 130

Sample: 306934 - TT-1 North End @ 3.5'

Laboratory: Lubbock
 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
 QC Batch: 94163 Date Analyzed: 2012-08-22 Analyzed By: MT
 Prep Batch: 79813 Sample Preparation: 2012-08-22 Prepared By: MT

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	J	1	1.33	<4.00	<0.359	mg/Kg	1	0.359	4	0.359

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	J		2.10	mg/Kg	1	2.00	105	70 - 130
4-Bromofluorobenzene (4-BFB)	J		2.03	mg/Kg	1	2.00	102	70 - 130

Sample: 306934 - TT-1 North End @ 3.5'

Laboratory: Midland
Analysis: TPH ORO
QC Batch: 94086
Prep Batch: 79755

Analytical Method: S 8015 D
Date Analyzed: 2012-08-21
Sample Preparation: 2012-08-20

Prep Method: N/A
Analyzed By: CW
Prepared By: CW

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
ORO	U		<14.5	<50.0	<14.5	mg/Kg	1	14.5	50	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			128	mg/Kg	1	100	128	70 - 130
n-Triacontane			84.4	mg/Kg	1	100	84	70 - 130

Sample: 306935 - TT-2 @ Surface

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 94162
Prep Batch: 79813

Analytical Method: S 8021B
Date Analyzed: 2012-08-22
Sample Preparation: 2012-08-22

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	1	<0.00365	<0.0200	<0.00365	mg/Kg	1	0.00365	0.02	0.00365
Toluene	U	1	<0.00816	<0.0200	<0.00816	mg/Kg	1	0.00816	0.02	0.00816
Ethylbenzene	U	1	<0.00560	<0.0200	<0.00560	mg/Kg	1	0.00560	0.02	0.0056
Xylene	U	1	<0.00460	<0.0200	<0.00460	mg/Kg	1	0.00460	0.02	0.0046

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.87	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)			1.92	mg/Kg	1	2.00	96	70 - 130

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Sample: 306935 - TT-2 @ Surface

Laboratory: Lubbock
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 94156 Date Analyzed: 2012-08-23 Analyzed By: AH
Prep Batch: 79810 Sample Preparation: 2012-08-23 Prepared By: AH

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	Qs,U		<3.05	<5.00	<3.05	mg/Kg	1	3.05	5	3.05

Sample: 306935 - TT-2 @ Surface

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 94082 Date Analyzed: 2012-08-21 Analyzed By: CW
Prep Batch: 79748 Sample Preparation: 2012-08-20 Prepared By: CW

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	Qr,U	2	<14.5	<50.0	<14.5	mg/Kg	1	14.5	50	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			113	mg/Kg	1	100	113	70 - 130

Sample: 306935 - TT-2 @ Surface

Laboratory: Lubbock
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 94163 Date Analyzed: 2012-08-22 Analyzed By: MT
Prep Batch: 79813 Sample Preparation: 2012-08-22 Prepared By: MT

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	J	1	1.32	<4.00	<0.359	mg/Kg	1	0.359	4	0.359

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	J		2.19	mg/Kg	1	2.00	110	70 - 130
4-Bromofluorobenzene (4-BFB)	J		2.13	mg/Kg	1	2.00	106	70 - 130

Sample: 306935 - TT-2 @ Surface

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Laboratory: Midland
Analysis: TPH ORO
QC Batch: 94086
Prep Batch: 79755

Analytical Method: S 8015 D
Date Analyzed: 2012-08-21
Sample Preparation: 2012-08-20

Prep Method: N/A
Analyzed By: CW
Prepared By: CW

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
ORO	u		<14.5	<50.0	<14.5	mg/Kg	1	14.5	50	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			110	mg/Kg	1	100	110	70 - 130
n-Triacontane			83.3	mg/Kg	1	100	83	70 - 130

Sample: 306936 - TT-2 @ 4'

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 94162
Prep Batch: 79813

Analytical Method: S 8021B
Date Analyzed: 2012-08-22
Sample Preparation: 2012-08-22

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	u	1	<0.00365	<0.0200	<0.00365	mg/Kg	1	0.00365	0.02	0.00365
Toluene	u	1	<0.00816	<0.0200	<0.00816	mg/Kg	1	0.00816	0.02	0.00816
Ethylbenzene	u	1	<0.00560	<0.0200	<0.00560	mg/Kg	1	0.00560	0.02	0.0056
Xylene	u	1	<0.00460	<0.0200	<0.00460	mg/Kg	1	0.00460	0.02	0.0046

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.77	mg/Kg	1	2.00	88	70 - 130
4-Bromofluorobenzene (4-BFB)			1.84	mg/Kg	1	2.00	92	70 - 130

Sample: 306936 - TT-2 @ 4'

Laboratory: Lubbock
Analysis: Chloride (Titration)
QC Batch: 94156
Prep Batch: 79810

Analytical Method: SM 4500-Cl B
Date Analyzed: 2012-08-23
Sample Preparation: 2012-08-23

Prep Method: N/A
Analyzed By: AH
Prepared By: AH

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	qs		39.8	39.8	<6.10	mg/Kg	2	6.10	5	3.05

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Sample: 306936 - TT-2 @ 4'

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 94082

Prep Batch: 79748

Analytical Method: S 8015 D

Date Analyzed: 2012-08-21

Sample Preparation: 2012-08-20

Prep Method: N/A

Analyzed By: CW

Prepared By: CW

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	J, Qr	2	39.8	<50.0	<14.5	mg/Kg	1	14.5	50	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			127	mg/Kg	1	100	127	70 - 130

Sample: 306936 - TT-2 @ 4'

Laboratory: Lubbock

Analysis: TPH GRO

QC Batch: 94163

Prep Batch: 79813

Analytical Method: S 8015 D

Date Analyzed: 2012-08-22

Sample Preparation: 2012-08-22

Prep Method: S 5035

Analyzed By: MT

Prepared By: MT

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	J	1	1.37	<4.00	<0.359	mg/Kg	1	0.359	4	0.359

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	J		2.10	mg/Kg	1	2.00	105	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.99	mg/Kg	1	2.00	100	70 - 130

Sample: 306936 - TT-2 @ 4'

Laboratory: Midland

Analysis: TPH ORO

QC Batch: 94086

Prep Batch: 79755

Analytical Method: S 8015 D

Date Analyzed: 2012-08-21

Sample Preparation: 2012-08-20

Prep Method: N/A

Analyzed By: CW

Prepared By: CW

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
ORO	U		<14.5	<50.0	<14.5	mg/Kg	1	14.5	50	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Qsr		139	mg/Kg	1	100	139	70 - 130

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sample continued ...

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane			93.5	mg/Kg	1	100	94	70 - 130

Method Blanks

Method Blank (1)

QC Batch: 94082
Prep Batch: 79748

Date Analyzed: 2012-08-21
QC Preparation: 2012-08-20

Analyzed By: CW
Prepared By: CW

Parameter	F	C	Result	Units	Reporting Limits
DRO		2	<14.5	mg/Kg	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			105	mg/Kg	1	100	105	70 - 130

Method Blank (1)

QC Batch: 94086
Prep Batch: 79755

Date Analyzed: 2012-08-21
QC Preparation: 2012-08-20

Analyzed By: CW
Prepared By: CW

Parameter	F	C	Result	Units	Reporting Limits
ORO			<14.5	mg/Kg	14.5

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			103	mg/Kg	1	100	103	70 - 130
n-Triacontane			74.9	mg/Kg	1	100	75	70 - 130

Method Blank (1)

QC Batch: 94156
Prep Batch: 79810

Date Analyzed: 2012-08-23
QC Preparation: 2012-08-23

Analyzed By: AH
Prepared By: AH

Parameter	F	C	Result	Units	Reporting Limits
Chloride			<3.05	mg/Kg	3.05

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Method Blank (1)

QC Batch: 94162
Prep Batch: 79813

Date Analyzed: 2012-08-22
QC Preparation: 2012-08-22

Analyzed By: MT
Prepared By: MT

Parameter	F	C	Result	Units	Reporting Limits
Benzene		1	<0.00365	mg/Kg	0.00365
Toluene		1	<0.00816	mg/Kg	0.00816
Ethylbenzene		1	<0.00560	mg/Kg	0.0056
Xylene		1	<0.00460	mg/Kg	0.0046

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.10	mg/Kg	1	2.00	105	70 - 130
4-Bromofluorobenzene (4-BFB)			1.97	mg/Kg	1	2.00	98	70 - 130

Method Blank (1)

QC Batch: 94163
Prep Batch: 79813

Date Analyzed: 2012-08-22
QC Preparation: 2012-08-22

Analyzed By: MT
Prepared By: MT

Parameter	F	C	Result	Units	Reporting Limits
GRO		1	<0.359	mg/Kg	0.359

Surrogate	F	C	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.38	mg/Kg	1	2.00	119	70 - 130
4-Bromofluorobenzene (4-BFB)			2.15	mg/Kg	1	2.00	108	70 - 130

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 94082
Prep Batch: 79748

Date Analyzed: 2012-08-21
QC Preparation: 2012-08-20

Analyzed By: CW
Prepared By: CW

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		2	220	mg/Kg	1	250	<14.5	88	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	Qr	2	280	mg/Kg	1	250	<14.5	112	70 - 130	24	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane			118	136	mg/Kg	1	100	118	136	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 94086
Prep Batch: 79755

Date Analyzed: 2012-08-21
QC Preparation: 2012-08-20

Analyzed By: CW
Prepared By: CW

Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane			118	135	mg/Kg	1	100	118	135	70 - 130
n-Triacontane			86.3	90.6	mg/Kg	1	100	86	91	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 94156
Prep Batch: 79810

Date Analyzed: 2012-08-23
QC Preparation: 2012-08-23

Analyzed By: AH
Prepared By: AH

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			101	mg/Kg	1	100	<3.05	101	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride			101	mg/Kg	1	100	<3.05	101	85 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 94162
Prep Batch: 79813

Date Analyzed: 2012-08-22
QC Preparation: 2012-08-22

Analyzed By: MT
Prepared By: MT

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Benzene		1	1.79	mg/Kg	1	2.00	<0.00365	90	75.4 - 120
Toluene		1	1.74	mg/Kg	1	2.00	<0.00816	87	74.9 - 120
Ethylbenzene		1	1.74	mg/Kg	1	2.00	<0.00560	87	78.1 - 120
Xylene		1	5.19	mg/Kg	1	6.00	<0.00460	86	77.3 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Benzene		1	1.72	mg/Kg	1	2.00	<0.00365	86	75.4 - 120	4	20
Toluene		1	1.68	mg/Kg	1	2.00	<0.00816	84	74.9 - 120	4	20
Ethylbenzene		1	1.69	mg/Kg	1	2.00	<0.00560	84	78.1 - 120	3	20
Xylene		1	5.04	mg/Kg	1	6.00	<0.00460	84	77.3 - 120	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	F	C	LCS	LCSD	Units	Dil.	Spike Amount	LCS	LCSD	Rec. Limit
			Result	Result				Rec.	Rec.	
Trifluorotoluene (TFT)			1.76	1.66	mg/Kg	1	2.00	88	83	70 - 130
4-Bromofluorobenzene (4-BFB)			1.73	1.67	mg/Kg	1	2.00	86	84	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 94163
Prep Batch: 79813

Date Analyzed: 2012-08-22
QC Preparation: 2012-08-22

Analyzed By: MT
Prepared By: MT

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
GRO		1	17.9	mg/Kg	1	20.0	<0.359	89	68.9 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
GRO		1	18.2	mg/Kg	1	20.0	<0.359	91	68.9 - 120	2	20

Report Date: August 23, 2012
SUG Historical Releases

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Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	F	C	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			2.05	2.08	mg/Kg	1	2.00	102	104	70 - 130
4-Bromofluorobenzene (4-BFB)			1.97	1.99	mg/Kg	1	2.00	98	99	70 - 130

Matrix Spike (MS-1) Spiked Sample: 306914

QC Batch: 94082
Prep Batch: 79748

Date Analyzed: 2012-08-21
QC Preparation: 2012-08-20

Analyzed By: CW
Prepared By: CW

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		2	231	mg/Kg	1	250	<14.5	92	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		2	233	mg/Kg	1	250	<14.5	93	70 - 130	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane			112	113	mg/Kg	1	100	112	113	70 - 130

Matrix Spike (MS-1) Spiked Sample: 306914

QC Batch: 94086
Prep Batch: 79755

Date Analyzed: 2012-08-21
QC Preparation: 2012-08-20

Analyzed By: CW
Prepared By: CW

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane			112	114	mg/Kg	1	100	112	114	70 - 130
n-Triacontane			80.2	81.3	mg/Kg	1	100	80	81	70 - 130

Matrix Spike (MS-1) Spiked Sample: 306936

QC Batch: 94156
Prep Batch: 79810

Date Analyzed: 2012-08-23
QC Preparation: 2012-08-23

Analyzed By: AH
Prepared By: AH

Report Date: August 23, 2012
SUG Historical Releases

Work Order: 12081632
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Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	Qs		101	mg/Kg	1	100	39.8	61	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	Qs		102	mg/Kg	1	100	39.8	62	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 306910

QC Batch: 94162
Prep Batch: 79813

Date Analyzed: 2012-08-22
QC Preparation: 2012-08-22

Analyzed By: MT
Prepared By: MT

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	1.76	mg/Kg	1	2.00	<0.00365	88	37.6 - 142
Toluene		1	1.96	mg/Kg	1	2.00	<0.00816	98	38.6 - 153
Ethylbenzene		1	2.02	mg/Kg	1	2.00	<0.00560	101	36.7 - 172
Xylene		1	6.03	mg/Kg	1	6.00	<0.00460	100	36.7 - 173

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	1.81	mg/Kg	1	2.00	<0.00365	90	37.6 - 142	3	20
Toluene		1	2.03	mg/Kg	1	2.00	<0.00816	102	38.6 - 153	4	20
Ethylbenzene		1	2.13	mg/Kg	1	2.00	<0.00560	106	36.7 - 172	5	20
Xylene		1	6.36	mg/Kg	1	6.00	<0.00460	106	36.7 - 173	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			1.84	1.94	mg/Kg	1	2	92	97	70 - 130
4-Bromofluorobenzene (4-BFB)			1.93	1.98	mg/Kg	1	2	96	99	70 - 130

Matrix Spike (MS-1) Spiked Sample: 306910

QC Batch: 94163
Prep Batch: 79813

Date Analyzed: 2012-08-22
QC Preparation: 2012-08-22

Analyzed By: MT
Prepared By: MT

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		1	19.9	mg/Kg	1	20.0	1.92	90	68.9 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO		1	21.1	mg/Kg	1	20.0	1.92	96	68.9 - 120	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	F	C	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			1.88	1.82	mg/Kg	1	2	94	91	70 - 130
4-Bromofluorobenzene (4-BFB)			2.44	2.36	mg/Kg	1	2	122	118	70 - 130

Calibration Standards

Standard (CCV-1)

QC Batch: 94082 Date Analyzed: 2012-08-21 Analyzed By: CW

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		2	mg/Kg	250	230	92	80 - 120	2012-08-21

Standard (CCV-2)

QC Batch: 94082 Date Analyzed: 2012-08-21 Analyzed By: CW

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		2	mg/Kg	250	224	90	80 - 120	2012-08-21

Standard (CCV-3)

QC Batch: 94082 Date Analyzed: 2012-08-21 Analyzed By: CW

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		2	mg/Kg	250	240	96	80 - 120	2012-08-21

Standard (ICV-1)

QC Batch: 94156 Date Analyzed: 2012-08-23 Analyzed By: AH

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	99.4	99	85 - 115	2012-08-23

Standard (CCV-1)

QC Batch: 94156

Date Analyzed: 2012-08-23

Analyzed By: AH

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2012-08-23

Standard (CCV-1)

QC Batch: 94162

Date Analyzed: 2012-08-22

Analyzed By: MT

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.0865	86	80 - 120	2012-08-22
Toluene		1	mg/kg	0.100	0.0852	85	80 - 120	2012-08-22
Ethylbenzene		1	mg/kg	0.100	0.0860	86	80 - 120	2012-08-22
Xylene		1	mg/kg	0.300	0.256	85	80 - 120	2012-08-22

Standard (CCV-2)

QC Batch: 94162

Date Analyzed: 2012-08-22

Analyzed By: MT

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.0865	86	80 - 120	2012-08-22
Toluene		1	mg/kg	0.100	0.0840	84	80 - 120	2012-08-22
Ethylbenzene		1	mg/kg	0.100	0.0832	83	80 - 120	2012-08-22
Xylene		1	mg/kg	0.300	0.248	83	80 - 120	2012-08-22

Standard (CCV-3)

QC Batch: 94162

Date Analyzed: 2012-08-22

Analyzed By: MT

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.0874	87	80 - 120	2012-08-22
Toluene		1	mg/kg	0.100	0.0851	85	80 - 120	2012-08-22
Ethylbenzene		1	mg/kg	0.100	0.0846	85	80 - 120	2012-08-22
Xylene		1	mg/kg	0.300	0.251	84	80 - 120	2012-08-22

Standard (CCV-1)

QC Batch: 94163 Date Analyzed: 2012-08-22 Analyzed By: MT

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.851	85	80 - 120	2012-08-22

Standard (CCV-2)

QC Batch: 94163 Date Analyzed: 2012-08-22 Analyzed By: MT

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.834	83	80 - 120	2012-08-22

Standard (CCV-3)

QC Batch: 94163 Date Analyzed: 2012-08-22 Analyzed By: MT

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.867	87	80 - 120	2012-08-22

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
BTEX	S 8021B	soil	BTEX-2	Benzene	0.0108	Pass
BTEX	S 8021B	soil	BTEX-2	Toluene	0.0108	Pass
BTEX	S 8021B	soil	BTEX-2	Ethylbenzene	0.0108	Pass
BTEX	S 8021B	soil	BTEX-2	Xylene	0.0108	Pass
Chloride (Titration)	SM 4500-Cl B	soil	N/A	Chloride	10.0	Pass
TPH DRO - NEW	S 8015 D	soil	TPH-2	DRO	36.7	Pass
TPH GRO	S 8015 D	soil	BTEX-2	GRO	1.00	Pass
TPH ORO	S 8015 D	soil	TPH-2	ORO	0.00	-

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704219-12-8	Lubbock
2	NELAP	T104704392-12-4	Midland

Standard Flags

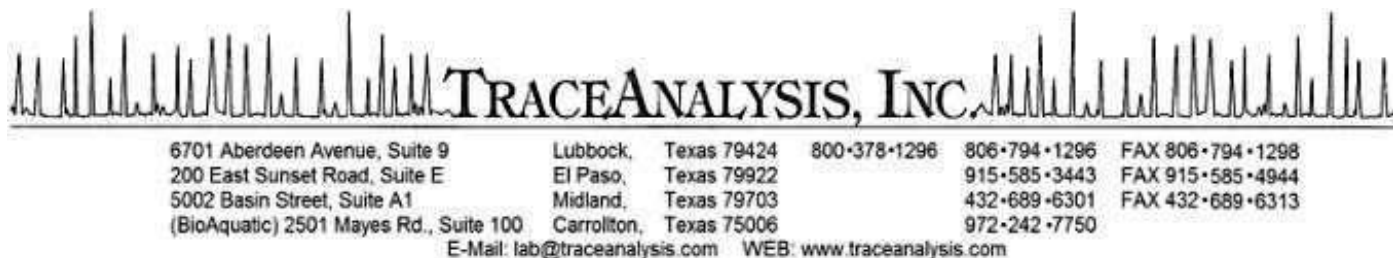
F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Result Comments

- 1 Sample dilution due to hydrocarbons.

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.



Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Rose Slade
 Southern Union Gas Services, Ltd.-Monahans
 801 S. Loop 464
 Monahans, TX, 79756

Report Date: September 26, 2012

Work Order: 12091440



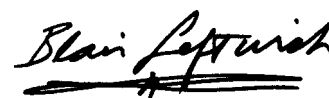
Project Location: Lea Co., NM
 Project Name: Trunk O #3 (1RP-1509)
 Project Number: SUG Historical Releases

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
309505	A Stockpile	soil	2012-09-14	09:00	2012-09-14
309506	A North Wall	soil	2012-09-14	09:10	2012-09-14
309507	A East Wall	soil	2012-09-14	09:20	2012-09-14
309508	A South Wall	soil	2012-09-14	09:30	2012-09-14
309509	A West Wall	soil	2012-09-14	09:40	2012-09-14
309510	A Floor	soil	2012-09-14	09:50	2012-09-14
309511	B North Wall #1	soil	2012-09-14	10:00	2012-09-14
309512	B North Wall #2	soil	2012-09-14	10:10	2012-09-14
309513	B North Wall #3	soil	2012-09-14	10:20	2012-09-14
309514	B South Wall #1	soil	2012-09-14	10:30	2012-09-14
309515	B South Wall #2	soil	2012-09-14	10:40	2012-09-14
309516	B South Wall #3	soil	2012-09-14	10:50	2012-09-14
309517	B East Wall	soil	2012-09-14	11:00	2012-09-14
309518	B West Wall	soil	2012-09-14	11:10	2012-09-14
309519	B Floor #1	soil	2012-09-14	11:20	2012-09-14
309520	B Floor #2	soil	2012-09-14	11:30	2012-09-14
309521	B Stockpile	soil	2012-09-14	11:40	2012-09-14

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 60 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink, reading "Blair Leftwich". The signature is written in a cursive style and is underlined with a thick, dark line.

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

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Case Narrative

Samples for project Trunk O #3 (1RP-1509) were received by TraceAnalysis, Inc. on 2012-09-14 and assigned to work order 12091440. Samples for work order 12091440 were received intact at a temperature of 3.1 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	80607	2012-09-22 at 09:28	95120	2012-09-22 at 09:28
BTEX	S 8021B	80622	2012-09-23 at 10:58	95136	2012-09-23 at 10:58
Chloride (Titration)	SM 4500-Cl B	80620	2012-09-25 at 10:49	95156	2012-09-25 at 15:15
Chloride (Titration)	SM 4500-Cl B	80620	2012-09-25 at 10:49	95157	2012-09-25 at 15:16
Chloride (Titration)	SM 4500-Cl B	80620	2012-09-25 at 10:49	95158	2012-09-25 at 15:17
TPH DRO - NEW	S 8015 D	80416	2012-09-17 at 09:00	94899	2012-09-18 at 08:38
TPH GRO	S 8015 D	80613	2012-09-22 at 09:28	95131	2012-09-22 at 09:28
TPH GRO	S 8015 D	80622	2012-09-23 at 10:58	95142	2012-09-23 at 10:58
TPH ORO	S 8015 D	80461	2012-09-18 at 13:00	94948	2012-09-19 at 09:57
TPH ORO	S 8015 D	80494	2012-09-19 at 14:00	94993	2012-09-20 at 09:15

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 12091440 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 309505 - A Stockpile

Laboratory: Midland
Analysis: BTEX
QC Batch: 95136
Prep Batch: 80622

Analytical Method: S 8021B
Date Analyzed: 2012-09-23
Sample Preparation: 2012-09-23

Prep Method: S 5035
Analyzed By: YG
Prepared By: YG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	1	<0.0200	mg/Kg	1	0.0200
Xylene	U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.91	mg/Kg	1	2.00	96	70 - 130
4-Bromofluorobenzene (4-BFB)			2.34	mg/Kg	1	2.00	117	70 - 130

Sample: 309505 - A Stockpile

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 95156
Prep Batch: 80620

Analytical Method: SM 4500-Cl B
Date Analyzed: 2012-09-25
Sample Preparation: 2012-09-25

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			229	mg/Kg	5	4.00

Sample: 309505 - A Stockpile

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 94899
Prep Batch: 80416

Analytical Method: S 8015 D
Date Analyzed: 2012-09-18
Sample Preparation: 2012-09-17

Prep Method: N/A
Analyzed By: CW
Prepared By: CW

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO		1	1120	mg/Kg	5	50.0

Report Date: September 26, 2012
SUG Historical Releases

Work Order: 12091440
Trunk O #3 (1RP-1509)

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Q _{sr}	Q _{sr}	254	mg/Kg	5	100	254	70 - 130

Sample: 309505 - A Stockpile

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 95142
Prep Batch: 80622

Analytical Method: S 8015 D
Date Analyzed: 2012-09-23
Sample Preparation: 2012-09-23

Prep Method: S 5035
Analyzed By: YG
Prepared By: YG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO		1	18.2	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.83	mg/Kg	1	2.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)			2.19	mg/Kg	1	2.00	110	70 - 130

Sample: 309505 - A Stockpile

Laboratory: Lubbock
Analysis: TPH ORO
QC Batch: 94948
Prep Batch: 80461

Analytical Method: S 8015 D
Date Analyzed: 2012-09-19
Sample Preparation: 2012-09-18

Prep Method: N/A
Analyzed By: CM
Prepared By: CM

Parameter	Flag	Cert	MDL Result	MDL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	Q _{s,U}		<85.5	<250	<250	<250	mg/Kg	5	17.1	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Q _{sr}	Q _{sr}	166	mg/Kg	5	100	166	61.5 - 159
n-Triacontane			162	mg/Kg	5	100	162	70 - 166

Sample: 309506 - A North Wall

Laboratory: Midland
Analysis: BTEX
QC Batch: 95120
Prep Batch: 80607

Analytical Method: S 8021B
Date Analyzed: 2012-09-22
Sample Preparation: 2012-09-22

Prep Method: S 5035
Analyzed By: YG
Prepared By: YG

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	Qr,U	1	<0.0200	mg/Kg	1	0.0200
Toluene	Qr,U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qr,U	1	<0.0200	mg/Kg	1	0.0200
Xylene	Qr	1	0.0297	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.01	mg/Kg	1	2.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)			2.22	mg/Kg	1	2.00	111	70 - 130

Sample: 309506 - A North Wall

Laboratory:	Midland			
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method: N/A
QC Batch:	95156	Date Analyzed:	2012-09-25	Analyzed By: AR
Prep Batch:	80620	Sample Preparation:	2012-09-25	Prepared By: AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			112	mg/Kg	5	4.00

Sample: 309506 - A North Wall

Laboratory:	Midland			
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method: N/A
QC Batch:	94899	Date Analyzed:	2012-09-18	Analyzed By: CW
Prep Batch:	80416	Sample Preparation:	2012-09-17	Prepared By: CW

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO		1	276	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			188	mg/Kg	1	100	188	70 - 130

Sample: 309506 - A North Wall

Laboratory:	Midland			
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method: S 5035
QC Batch:	95131	Date Analyzed:	2012-09-22	Analyzed By: YG
Prep Batch:	80613	Sample Preparation:	2012-09-22	Prepared By: YG

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Qs	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.90	mg/Kg	1	2.00	95	70 - 130
4-Bromofluorobenzene (4-BFB)			2.23	mg/Kg	1	2.00	112	70 - 130

Sample: 309506 - A North Wall

Laboratory: Lubbock
Analysis: TPH ORO
QC Batch: 94993
Prep Batch: 80494

Analytical Method: S 8015 D
Date Analyzed: 2012-09-20
Sample Preparation: 2012-09-19

Prep Method: N/A
Analyzed By: CM
Prepared By: CM

Parameter	Flag	Cert	MDL Result	MDL Result	PQL Result	RL Result	Units	Dilution	MDL	MDL	PQL	RL
ORO			193	193	193	193	mg/Kg	1	17.1	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			146	mg/Kg	1	100	146	61.5 - 159
n-Triacontane			152	mg/Kg	1	100	152	70 - 166

Sample: 309507 - A East Wall

Laboratory: Midland
Analysis: BTEX
QC Batch: 95120
Prep Batch: 80607

Analytical Method: S 8021B
Date Analyzed: 2012-09-22
Sample Preparation: 2012-09-22

Prep Method: S 5035
Analyzed By: YG
Prepared By: YG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	Qr,U	1	<0.0200	mg/Kg	1	0.0200
Toluene	Qr,U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qr,U	1	<0.0200	mg/Kg	1	0.0200
Xylene	Qr,U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.02	mg/Kg	1	2.00	101	70 - 130
4-Bromofluorobenzene (4-BFB)			2.16	mg/Kg	1	2.00	108	70 - 130

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Sample: 309507 - A East Wall

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2012-09-25	Analyzed By:	AR
QC Batch:	95156	Sample Preparation:	2012-09-25	Prepared By:	AR
Prep Batch:	80620				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			156	mg/Kg	5	4.00

Sample: 309507 - A East Wall

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2012-09-18	Analyzed By:	CW
QC Batch:	94899	Sample Preparation:	2012-09-17	Prepared By:	CW
Prep Batch:	80416				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO		1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			112	mg/Kg	1	100	112	70 - 130

Sample: 309507 - A East Wall

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2012-09-22	Analyzed By:	YG
QC Batch:	95131	Sample Preparation:	2012-09-22	Prepared By:	YG
Prep Batch:	80613				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Qs,U	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.94	mg/Kg	1	2.00	97	70 - 130
4-Bromofluorobenzene (4-BFB)			2.12	mg/Kg	1	2.00	106	70 - 130

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Sample: 309507 - A East Wall

Laboratory:	Lubbock	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH ORO	Date Analyzed:	2012-09-19	Analyzed By:	CM
QC Batch:	94948	Sample Preparation:	2012-09-18	Prepared By:	CM
Prep Batch:	80461				

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	Qs,U		<17.1	<50.0	<50.0	<50.0	mg/Kg	1	17.1	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			142	mg/Kg	1	100	142	61.5 - 159
n-Triacontane			143	mg/Kg	1	100	143	70 - 166

Sample: 309508 - A South Wall

Laboratory:	Midland	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2012-09-23	Analyzed By:	YG
QC Batch:	95136	Sample Preparation:	2012-09-23	Prepared By:	YG
Prep Batch:	80622				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	1	<0.0200	mg/Kg	1	0.0200
Xylene	U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.91	mg/Kg	1	2.00	96	70 - 130
4-Bromofluorobenzene (4-BFB)			2.11	mg/Kg	1	2.00	106	70 - 130

Sample: 309508 - A South Wall

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2012-09-25	Analyzed By:	AR
QC Batch:	95156	Sample Preparation:	2012-09-25	Prepared By:	AR
Prep Batch:	80620				

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			63.4	mg/Kg	5	4.00

Sample: 309508 - A South Wall

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	94899	Date Analyzed:	2012-09-18	Analyzed By:	CW
Prep Batch:	80416	Sample Preparation:	2012-09-17	Prepared By:	CW

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO		1	738	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Q _{sr}	Q _{sr}	290	mg/Kg	1	100	290	70 - 130

Sample: 309508 - A South Wall

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	95142	Date Analyzed:	2012-09-23	Analyzed By:	YG
Prep Batch:	80622	Sample Preparation:	2012-09-23	Prepared By:	YG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.82	mg/Kg	1	2.00	91	70 - 130
4-Bromofluorobenzene (4-BFB)			2.03	mg/Kg	1	2.00	102	70 - 130

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Sample: 309508 - A South Wall

Laboratory:	Lubbock	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH ORO	Date Analyzed:	2012-09-19	Analyzed By:	CM
QC Batch:	94948	Sample Preparation:	2012-09-18	Prepared By:	CM
Prep Batch:	80461				

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	Qs		591	591	591	591	mg/Kg	5	17.1	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Qsr	Qsr	225	mg/Kg	5	100	225	61.5 - 159
n-Triacontane	Qsr	Qsr	218	mg/Kg	5	100	218	70 - 166

Sample: 309509 - A West Wall

Laboratory:	Midland	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2012-09-23	Analyzed By:	YG
QC Batch:	95136	Sample Preparation:	2012-09-23	Prepared By:	YG
Prep Batch:	80622				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	1	<0.0200	mg/Kg	1	0.0200
Xylene	U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.92	mg/Kg	1	2.00	96	70 - 130
4-Bromofluorobenzene (4-BFB)			2.10	mg/Kg	1	2.00	105	70 - 130

Sample: 309509 - A West Wall

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2012-09-25	Analyzed By:	AR
QC Batch:	95157	Sample Preparation:	2012-09-25	Prepared By:	AR
Prep Batch:	80620				

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			100	mg/Kg	5	4.00

Sample: 309509 - A West Wall

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	94899	Date Analyzed:	2012-09-18	Analyzed By:	CW
Prep Batch:	80416	Sample Preparation:	2012-09-17	Prepared By:	CW

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO		1	652	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Q _{sr}	Q _{sr}	279	mg/Kg	1	100	279	70 - 130

Sample: 309509 - A West Wall

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	95142	Date Analyzed:	2012-09-23	Analyzed By:	YG
Prep Batch:	80622	Sample Preparation:	2012-09-23	Prepared By:	YG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.83	mg/Kg	1	2.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)			2.02	mg/Kg	1	2.00	101	70 - 130

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Sample: 309509 - A West Wall

Laboratory:	Lubbock	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH ORO	Date Analyzed:	2012-09-19	Analyzed By:	CM
QC Batch:	94948	Sample Preparation:	2012-09-18	Prepared By:	CM
Prep Batch:	80461				

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	Q _s		268	268	268	268	mg/Kg	5	17.1	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Q _{sr}	Q _{sr}	166	mg/Kg	5	100	166	61.5 - 159
n-Triacontane			152	mg/Kg	5	100	152	70 - 166

Sample: 309510 - A Floor

Laboratory:	Midland	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2012-09-22	Analyzed By:	YG
QC Batch:	95120	Sample Preparation:	2012-09-22	Prepared By:	YG
Prep Batch:	80607				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	Q _{r,U}	1	<0.0200	mg/Kg	1	0.0200
Toluene	Q _{r,U}	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Q _{r,U}	1	<0.0200	mg/Kg	1	0.0200
Xylene	Q _{r,U}	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.00	mg/Kg	1	2.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)			2.19	mg/Kg	1	2.00	110	70 - 130

Sample: 309510 - A Floor

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2012-09-25	Analyzed By:	AR
QC Batch:	95157	Sample Preparation:	2012-09-25	Prepared By:	AR
Prep Batch:	80620				

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			1800	mg/Kg	10	4.00

Sample: 309510 - A Floor

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	94899	Date Analyzed:	2012-09-18	Analyzed By:	CW
Prep Batch:	80416	Sample Preparation:	2012-09-17	Prepared By:	CW

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO		1	70.5	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Q _{sr}	Q _{sr}	131	mg/Kg	1	100	131	70 - 130

Sample: 309510 - A Floor

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	95131	Date Analyzed:	2012-09-22	Analyzed By:	YG
Prep Batch:	80613	Sample Preparation:	2012-09-22	Prepared By:	YG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Q _{s,U}	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.94	mg/Kg	1	2.00	97	70 - 130
4-Bromofluorobenzene (4-BFB)			2.11	mg/Kg	1	2.00	106	70 - 130

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Sample: 309510 - A Floor

Laboratory:	Lubbock	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH ORO	Date Analyzed:	2012-09-19	Analyzed By:	CM
QC Batch:	94948	Sample Preparation:	2012-09-18	Prepared By:	CM
Prep Batch:	80461				

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	Qs,U		<17.1	<50.0	<50.0	<50.0	mg/Kg	1	17.1	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			153	mg/Kg	1	100	153	61.5 - 159
n-Triacontane			156	mg/Kg	1	100	156	70 - 166

Sample: 309511 - B North Wall #1

Laboratory:	Midland	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2012-09-22	Analyzed By:	YG
QC Batch:	95120	Sample Preparation:	2012-09-22	Prepared By:	YG
Prep Batch:	80607				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	Qr,U	1	<0.0200	mg/Kg	1	0.0200
Toluene	Qr,U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qr,U	1	<0.0200	mg/Kg	1	0.0200
Xylene	Qr,U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.00	mg/Kg	1	2.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)			2.19	mg/Kg	1	2.00	110	70 - 130

Sample: 309511 - B North Wall #1

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2012-09-25	Analyzed By:	AR
QC Batch:	95157	Sample Preparation:	2012-09-25	Prepared By:	AR
Prep Batch:	80620				

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			129	mg/Kg	5	4.00

Sample: 309511 - B North Wall #1

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	94899	Date Analyzed:	2012-09-18	Analyzed By:	CW
Prep Batch:	80416	Sample Preparation:	2012-09-17	Prepared By:	CW

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			123	mg/Kg	1	100	123	70 - 130

Sample: 309511 - B North Wall #1

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	95131	Date Analyzed:	2012-09-22	Analyzed By:	YG
Prep Batch:	80613	Sample Preparation:	2012-09-22	Prepared By:	YG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Qs,U	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.95	mg/Kg	1	2.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)			2.10	mg/Kg	1	2.00	105	70 - 130

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Sample: 309511 - B North Wall #1

Laboratory:	Lubbock	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH ORO	Date Analyzed:	2012-09-19	Analyzed By:	CM
QC Batch:	94948	Sample Preparation:	2012-09-18	Prepared By:	CM
Prep Batch:	80461				

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	Qs,U		<17.1	<50.0	<50.0	<50.0	mg/Kg	1	17.1	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			120	mg/Kg	1	100	120	61.5 - 159
n-Triacontane			125	mg/Kg	1	100	125	70 - 166

Sample: 309512 - B North Wall #2

Laboratory:	Midland	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2012-09-22	Analyzed By:	YG
QC Batch:	95120	Sample Preparation:	2012-09-22	Prepared By:	YG
Prep Batch:	80607				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	Qr,U	1	<0.0200	mg/Kg	1	0.0200
Toluene	Qr,U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qr,U	1	<0.0200	mg/Kg	1	0.0200
Xylene	Qr,U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.00	mg/Kg	1	2.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)			2.18	mg/Kg	1	2.00	109	70 - 130

Sample: 309512 - B North Wall #2

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2012-09-25	Analyzed By:	AR
QC Batch:	95157	Sample Preparation:	2012-09-25	Prepared By:	AR
Prep Batch:	80620				

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	U		<20.0	mg/Kg	5	4.00

Sample: 309512 - B North Wall #2

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	94899	Date Analyzed:	2012-09-18	Analyzed By:	CW
Prep Batch:	80416	Sample Preparation:	2012-09-17	Prepared By:	CW

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			125	mg/Kg	1	100	125	70 - 130

Sample: 309512 - B North Wall #2

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	95131	Date Analyzed:	2012-09-22	Analyzed By:	YG
Prep Batch:	80613	Sample Preparation:	2012-09-22	Prepared By:	YG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Qs,U	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.99	mg/Kg	1	2.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)			2.09	mg/Kg	1	2.00	104	70 - 130

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Sample: 309512 - B North Wall #2

Laboratory:	Lubbock	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH ORO	Date Analyzed:	2012-09-19	Analyzed By:	CM
QC Batch:	94948	Sample Preparation:	2012-09-18	Prepared By:	CM
Prep Batch:	80461				

Parameter	Flag	Cert	MDL Result	MDL Result	PQL Result	RL Result	Units	Dilution	MDL	MDL	PQL	RL
ORO	Qs,U		<17.1	<50.0	<50.0	<50.0	mg/Kg	1	17.1	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			112	mg/Kg	1	100	112	61.5 - 159
n-Triacontane			116	mg/Kg	1	100	116	70 - 166

Sample: 309513 - B North Wall #3

Laboratory:	Midland	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2012-09-22	Analyzed By:	YG
QC Batch:	95120	Sample Preparation:	2012-09-22	Prepared By:	YG
Prep Batch:	80607				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	Qr,U	1	<0.0200	mg/Kg	1	0.0200
Toluene	Qr,U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qr,U	1	<0.0200	mg/Kg	1	0.0200
Xylene	Qr,U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.00	mg/Kg	1	2.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)			2.19	mg/Kg	1	2.00	110	70 - 130

Sample: 309513 - B North Wall #3

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2012-09-25	Analyzed By:	AR
QC Batch:	95157	Sample Preparation:	2012-09-25	Prepared By:	AR
Prep Batch:	80620				

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			28.7	mg/Kg	5	4.00

Sample: 309513 - B North Wall #3

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	94899	Date Analyzed:	2012-09-18	Analyzed By:	CW
Prep Batch:	80416	Sample Preparation:	2012-09-17	Prepared By:	CW

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			124	mg/Kg	1	100	124	70 - 130

Sample: 309513 - B North Wall #3

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	95131	Date Analyzed:	2012-09-22	Analyzed By:	YG
Prep Batch:	80613	Sample Preparation:	2012-09-22	Prepared By:	YG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Qs,U	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.92	mg/Kg	1	2.00	96	70 - 130
4-Bromofluorobenzene (4-BFB)			2.10	mg/Kg	1	2.00	105	70 - 130

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Sample: 309513 - B North Wall #3

Laboratory:	Lubbock	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH ORO	Date Analyzed:	2012-09-19	Analyzed By:	CM
QC Batch:	94948	Sample Preparation:	2012-09-18	Prepared By:	CM
Prep Batch:	80461				

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	Qs,U		<17.1	<50.0	<50.0	<50.0	mg/Kg	1	17.1	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			117	mg/Kg	1	100	117	61.5 - 159
n-Triacontane			118	mg/Kg	1	100	118	70 - 166

Sample: 309514 - B South Wall #1

Laboratory:	Midland	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2012-09-22	Analyzed By:	YG
QC Batch:	95120	Sample Preparation:	2012-09-22	Prepared By:	YG
Prep Batch:	80607				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	Qr,U	1	<0.0200	mg/Kg	1	0.0200
Toluene	Qr,U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qr,U	1	<0.0200	mg/Kg	1	0.0200
Xylene	Qr,U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.01	mg/Kg	1	2.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)			2.17	mg/Kg	1	2.00	108	70 - 130

Sample: 309514 - B South Wall #1

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2012-09-25	Analyzed By:	AR
QC Batch:	95157	Sample Preparation:	2012-09-25	Prepared By:	AR
Prep Batch:	80620				

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			28.7	mg/Kg	5	4.00

Sample: 309514 - B South Wall #1

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	94899	Date Analyzed:	2012-09-18	Analyzed By:	CW
Prep Batch:	80416	Sample Preparation:	2012-09-17	Prepared By:	CW

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			119	mg/Kg	1	100	119	70 - 130

Sample: 309514 - B South Wall #1

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	95131	Date Analyzed:	2012-09-22	Analyzed By:	YG
Prep Batch:	80613	Sample Preparation:	2012-09-22	Prepared By:	YG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Qs,U	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.96	mg/Kg	1	2.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)			2.08	mg/Kg	1	2.00	104	70 - 130

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Sample: 309514 - B South Wall #1

Laboratory:	Lubbock	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH ORO	Date Analyzed:	2012-09-20	Analyzed By:	CM
QC Batch:	94993	Sample Preparation:	2012-09-19	Prepared By:	CM
Prep Batch:	80494				

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	u		<17.1	<50.0	<50.0	<50.0	mg/Kg	1	17.1	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			121	mg/Kg	1	100	121	61.5 - 159
n-Triacontane			118	mg/Kg	1	100	118	70 - 166

Sample: 309515 - B South Wall #2

Laboratory:	Midland	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2012-09-22	Analyzed By:	YG
QC Batch:	95120	Sample Preparation:	2012-09-22	Prepared By:	YG
Prep Batch:	80607				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	Qr,U	1	<0.0200	mg/Kg	1	0.0200
Toluene	Qr,U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qr,U	1	<0.0200	mg/Kg	1	0.0200
Xylene	Qr,U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.02	mg/Kg	1	2.00	101	70 - 130
4-Bromofluorobenzene (4-BFB)			2.21	mg/Kg	1	2.00	110	70 - 130

Sample: 309515 - B South Wall #2

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2012-09-25	Analyzed By:	AR
QC Batch:	95157	Sample Preparation:	2012-09-25	Prepared By:	AR
Prep Batch:	80620				

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			57.4	mg/Kg	5	4.00

Sample: 309515 - B South Wall #2

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	94899	Date Analyzed:	2012-09-18	Analyzed By:	CW
Prep Batch:	80416	Sample Preparation:	2012-09-17	Prepared By:	CW

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			119	mg/Kg	1	100	119	70 - 130

Sample: 309515 - B South Wall #2

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	95131	Date Analyzed:	2012-09-22	Analyzed By:	YG
Prep Batch:	80613	Sample Preparation:	2012-09-22	Prepared By:	YG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Qs,U	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.91	mg/Kg	1	2.00	96	70 - 130
4-Bromofluorobenzene (4-BFB)			2.10	mg/Kg	1	2.00	105	70 - 130

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Sample: 309515 - B South Wall #2

Laboratory:	Lubbock	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH ORO	Date Analyzed:	2012-09-20	Analyzed By:	CM
QC Batch:	94993	Sample Preparation:	2012-09-19	Prepared By:	CM
Prep Batch:	80494				

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	u		<17.1	<50.0	<50.0	<50.0	mg/Kg	1	17.1	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			108	mg/Kg	1	100	108	61.5 - 159
n-Triacontane			109	mg/Kg	1	100	109	70 - 166

Sample: 309516 - B South Wall #3

Laboratory:	Midland	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2012-09-23	Analyzed By:	YG
QC Batch:	95136	Sample Preparation:	2012-09-23	Prepared By:	YG
Prep Batch:	80622				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.0200	mg/Kg	1	0.0200
Toluene	u	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	u	1	<0.0200	mg/Kg	1	0.0200
Xylene	u	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.96	mg/Kg	1	2.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)			2.21	mg/Kg	1	2.00	110	70 - 130

Sample: 309516 - B South Wall #3

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2012-09-25	Analyzed By:	AR
QC Batch:	95157	Sample Preparation:	2012-09-25	Prepared By:	AR
Prep Batch:	80620				

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	U		<20.0	mg/Kg	5	4.00

Sample: 309516 - B South Wall #3

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	94899	Date Analyzed:	2012-09-18	Analyzed By:	CW
Prep Batch:	80416	Sample Preparation:	2012-09-17	Prepared By:	CW

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			124	mg/Kg	1	100	124	70 - 130

Sample: 309516 - B South Wall #3

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	95142	Date Analyzed:	2012-09-23	Analyzed By:	YG
Prep Batch:	80622	Sample Preparation:	2012-09-23	Prepared By:	YG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.87	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)			2.12	mg/Kg	1	2.00	106	70 - 130

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Sample: 309516 - B South Wall #3

Laboratory:	Lubbock	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH ORO	Date Analyzed:	2012-09-20	Analyzed By:	CM
QC Batch:	94993	Sample Preparation:	2012-09-19	Prepared By:	CM
Prep Batch:	80494				

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	u		<17.1	<50.0	<50.0	<50.0	mg/Kg	1	17.1	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			108	mg/Kg	1	100	108	61.5 - 159
n-Triacontane			108	mg/Kg	1	100	108	70 - 166

Sample: 309517 - B East Wall

Laboratory:	Midland	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2012-09-23	Analyzed By:	YG
QC Batch:	95136	Sample Preparation:	2012-09-23	Prepared By:	YG
Prep Batch:	80622				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.0200	mg/Kg	1	0.0200
Toluene	u	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	u	1	<0.0200	mg/Kg	1	0.0200
Xylene	u	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.02	mg/Kg	1	2.00	101	70 - 130
4-Bromofluorobenzene (4-BFB)			2.24	mg/Kg	1	2.00	112	70 - 130

Sample: 309517 - B East Wall

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2012-09-25	Analyzed By:	AR
QC Batch:	95157	Sample Preparation:	2012-09-25	Prepared By:	AR
Prep Batch:	80620				

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			90.9	mg/Kg	5	4.00

Sample: 309517 - B East Wall

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	94899	Date Analyzed:	2012-09-18	Analyzed By:	CW
Prep Batch:	80416	Sample Preparation:	2012-09-17	Prepared By:	CW

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO		1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			110	mg/Kg	1	100	110	70 - 130

Sample: 309517 - B East Wall

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	95142	Date Analyzed:	2012-09-23	Analyzed By:	YG
Prep Batch:	80622	Sample Preparation:	2012-09-23	Prepared By:	YG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.99	mg/Kg	1	2.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)			2.14	mg/Kg	1	2.00	107	70 - 130

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Sample: 309517 - B East Wall

Laboratory:	Lubbock	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH ORO	Date Analyzed:	2012-09-20	Analyzed By:	CM
QC Batch:	94993	Sample Preparation:	2012-09-19	Prepared By:	CM
Prep Batch:	80494				

Parameter	Flag	Cert	MDL Result	MDL Result	PQL Result	RL Result	Units	Dilution	MDL	MDL	PQL	RL
ORO	u		<17.1	<50.0	<50.0	<50.0	mg/Kg	1	17.1	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			113	mg/Kg	1	100	113	61.5 - 159
n-Triacontane			114	mg/Kg	1	100	114	70 - 166

Sample: 309518 - B West Wall

Laboratory:	Midland	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2012-09-23	Analyzed By:	YG
QC Batch:	95136	Sample Preparation:	2012-09-23	Prepared By:	YG
Prep Batch:	80622				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.0200	mg/Kg	1	0.0200
Toluene	u	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	u	1	<0.0200	mg/Kg	1	0.0200
Xylene	u	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.96	mg/Kg	1	2.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)			2.24	mg/Kg	1	2.00	112	70 - 130

Sample: 309518 - B West Wall

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2012-09-25	Analyzed By:	AR
QC Batch:	95157	Sample Preparation:	2012-09-25	Prepared By:	AR
Prep Batch:	80620				

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			76.6	mg/Kg	5	4.00

Sample: 309518 - B West Wall

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	94899	Date Analyzed:	2012-09-18	Analyzed By:	CW
Prep Batch:	80416	Sample Preparation:	2012-09-17	Prepared By:	CW

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			122	mg/Kg	1	100	122	70 - 130

Sample: 309518 - B West Wall

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	95142	Date Analyzed:	2012-09-23	Analyzed By:	YG
Prep Batch:	80622	Sample Preparation:	2012-09-23	Prepared By:	YG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.96	mg/Kg	1	2.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)			2.14	mg/Kg	1	2.00	107	70 - 130

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Sample: 309518 - B West Wall

Laboratory:	Lubbock	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH ORO	Date Analyzed:	2012-09-20	Analyzed By:	CM
QC Batch:	94993	Sample Preparation:	2012-09-19	Prepared By:	CM
Prep Batch:	80494				

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	u		<17.1	<50.0	<50.0	<50.0	mg/Kg	1	17.1	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			105	mg/Kg	1	100	105	61.5 - 159
n-Triacontane			106	mg/Kg	1	100	106	70 - 166

Sample: 309519 - B Floor #1

Laboratory:	Midland	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2012-09-23	Analyzed By:	YG
QC Batch:	95136	Sample Preparation:	2012-09-23	Prepared By:	YG
Prep Batch:	80622				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.0200	mg/Kg	1	0.0200
Toluene	u	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	u	1	<0.0200	mg/Kg	1	0.0200
Xylene	u	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.00	mg/Kg	1	2.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)			2.24	mg/Kg	1	2.00	112	70 - 130

Sample: 309519 - B Floor #1

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2012-09-25	Analyzed By:	AR
QC Batch:	95158	Sample Preparation:	2012-09-25	Prepared By:	AR
Prep Batch:	80620				

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			56.7	mg/Kg	5	4.00

Sample: 309519 - B Floor #1

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	94899	Date Analyzed:	2012-09-18	Analyzed By:	CW
Prep Batch:	80416	Sample Preparation:	2012-09-17	Prepared By:	CW

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO		1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			136	mg/Kg	1	100	136	70 - 130

Sample: 309519 - B Floor #1

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	95142	Date Analyzed:	2012-09-23	Analyzed By:	YG
Prep Batch:	80622	Sample Preparation:	2012-09-23	Prepared By:	YG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.98	mg/Kg	1	2.00	99	70 - 130
4-Bromofluorobenzene (4-BFB)			2.14	mg/Kg	1	2.00	107	70 - 130

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Sample: 309519 - B Floor #1

Laboratory:	Lubbock	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH ORO	Date Analyzed:	2012-09-20	Analyzed By:	CM
QC Batch:	94993	Sample Preparation:	2012-09-19	Prepared By:	CM
Prep Batch:	80494				

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO			50.4	50.4	50.4	50.4	mg/Kg	1	17.1	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			120	mg/Kg	1	100	120	61.5 - 159
n-Triacontane			142	mg/Kg	1	100	142	70 - 166

Sample: 309520 - B Floor #2

Laboratory:	Midland	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2012-09-23	Analyzed By:	YG
QC Batch:	95136	Sample Preparation:	2012-09-23	Prepared By:	YG
Prep Batch:	80622				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	1	<0.0200	mg/Kg	1	0.0200
Xylene	U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.98	mg/Kg	1	2.00	99	70 - 130
4-Bromofluorobenzene (4-BFB)			2.27	mg/Kg	1	2.00	114	70 - 130

Sample: 309520 - B Floor #2

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2012-09-25	Analyzed By:	AR
QC Batch:	95158	Sample Preparation:	2012-09-25	Prepared By:	AR
Prep Batch:	80620				

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			142	mg/Kg	5	4.00

Sample: 309520 - B Floor #2

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	94899	Date Analyzed:	2012-09-18	Analyzed By:	CW
Prep Batch:	80416	Sample Preparation:	2012-09-17	Prepared By:	CW

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO		1	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			112	mg/Kg	1	100	112	70 - 130

Sample: 309520 - B Floor #2

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	95142	Date Analyzed:	2012-09-23	Analyzed By:	YG
Prep Batch:	80622	Sample Preparation:	2012-09-23	Prepared By:	YG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.96	mg/Kg	1	2.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)			2.15	mg/Kg	1	2.00	108	70 - 130

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Sample: 309520 - B Floor #2

Laboratory:	Lubbock	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH ORO	Date Analyzed:	2012-09-20	Analyzed By:	CM
QC Batch:	94993	Sample Preparation:	2012-09-19	Prepared By:	CM
Prep Batch:	80494				

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO	u		<17.1	<50.0	<50.0	<50.0	mg/Kg	1	17.1	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			114	mg/Kg	1	100	114	61.5 - 159
n-Triacontane			117	mg/Kg	1	100	117	70 - 166

Sample: 309521 - B Stockpile

Laboratory:	Midland	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2012-09-23	Analyzed By:	YG
QC Batch:	95136	Sample Preparation:	2012-09-23	Prepared By:	YG
Prep Batch:	80622				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.0200	mg/Kg	1	0.0200
Toluene	u	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	u	1	<0.0200	mg/Kg	1	0.0200
Xylene	u	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.95	mg/Kg	1	2.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)			2.24	mg/Kg	1	2.00	112	70 - 130

Sample: 309521 - B Stockpile

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2012-09-25	Analyzed By:	AR
QC Batch:	95158	Sample Preparation:	2012-09-25	Prepared By:	AR
Prep Batch:	80620				

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			80.3	mg/Kg	5	4.00

Sample: 309521 - B Stockpile

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	94899	Date Analyzed:	2012-09-18	Analyzed By:	CW
Prep Batch:	80416	Sample Preparation:	2012-09-17	Prepared By:	CW

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO		1	119	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			158	mg/Kg	1	100	158	70 - 130

Sample: 309521 - B Stockpile

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	95142	Date Analyzed:	2012-09-23	Analyzed By:	YG
Prep Batch:	80622	Sample Preparation:	2012-09-23	Prepared By:	YG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.94	mg/Kg	1	2.00	97	70 - 130
4-Bromofluorobenzene (4-BFB)			2.14	mg/Kg	1	2.00	107	70 - 130

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Sample: 309521 - B Stockpile

Laboratory:	Lubbock	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH ORO	Date Analyzed:	2012-09-20	Analyzed By:	CM
QC Batch:	94993	Sample Preparation:	2012-09-19	Prepared By:	CM
Prep Batch:	80494				

Parameter	Flag	Cert	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO			173	173	173	173	mg/Kg	1	17.1	50.0	50.0	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			128	mg/Kg	1	100	128	61.5 - 159
n-Triacontane			134	mg/Kg	1	100	134	70 - 166

Method Blanks

Method Blank (1) QC Batch: 94899

QC Batch: 94899 Date Analyzed: 2012-09-18 Analyzed By: CW
Prep Batch: 80416 QC Preparation: 2012-09-17 Prepared By: CW

Parameter	Flag	Cert	MDL Result	Units	RL
DRO		1	<9.09	mg/Kg	50

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			110	mg/Kg	1	100	110	70 - 130

Method Blank (1) QC Batch: 94948

QC Batch: 94948 Date Analyzed: 2012-09-19 Analyzed By: CM
Prep Batch: 80461 QC Preparation: 2012-09-18 Prepared By: CM

Parameter	Flag	Cert	MDL Result	Units	RL
ORO			<17.1	mg/Kg	50

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			107	mg/Kg	1	100	107	61.5 - 159
n-Triacontane			103	mg/Kg	1	100	103	70 - 166

Method Blank (1) QC Batch: 94993

QC Batch: 94993 Date Analyzed: 2012-09-20 Analyzed By: CM
Prep Batch: 80494 QC Preparation: 2012-09-19 Prepared By: CM

Parameter	Flag	Cert	MDL Result	Units	RL
ORO			<17.1	mg/Kg	50

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			102	mg/Kg	1	100	102	61.5 - 159
n-Triacontane			110	mg/Kg	1	100	110	70 - 166

Method Blank (1) QC Batch: 95120

QC Batch: 95120 Date Analyzed: 2012-09-22 Analyzed By: YG
Prep Batch: 80607 QC Preparation: 2012-09-22 Prepared By: YG

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.00470	mg/Kg	0.02
Toluene		1	<0.00980	mg/Kg	0.02
Ethylbenzene		1	<0.00500	mg/Kg	0.02
Xylene		1	<0.0170	mg/Kg	0.02

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.02	mg/Kg	1	2.00	101	70 - 130
4-Bromofluorobenzene (4-BFB)			2.21	mg/Kg	1	2.00	110	70 - 130

Method Blank (1) QC Batch: 95131

QC Batch: 95131 Date Analyzed: 2012-09-22 Analyzed By: YG
Prep Batch: 80613 QC Preparation: 2012-09-22 Prepared By: YG

Parameter	Flag	Cert	MDL Result	Units	RL
GRO		1	<1.22	mg/Kg	4

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.98	mg/Kg	1	2.00	99	70 - 130
4-Bromofluorobenzene (4-BFB)			2.10	mg/Kg	1	2.00	105	70 - 130

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Method Blank (1) QC Batch: 95136

QC Batch: 95136
Prep Batch: 80622

Date Analyzed: 2012-09-23
QC Preparation: 2012-09-23

Analyzed By: YG
Prepared By: YG

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.00470	mg/Kg	0.02
Toluene		1	<0.00980	mg/Kg	0.02
Ethylbenzene		1	<0.00500	mg/Kg	0.02
Xylene		1	<0.0170	mg/Kg	0.02

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.95	mg/Kg	1	2.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)			2.23	mg/Kg	1	2.00	112	70 - 130

Method Blank (1) QC Batch: 95142

QC Batch: 95142
Prep Batch: 80622

Date Analyzed: 2012-09-23
QC Preparation: 2012-09-23

Analyzed By: YG
Prepared By: YG

Parameter	Flag	Cert	MDL Result	Units	RL
GRO		1	<1.22	mg/Kg	4

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.87	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)			2.13	mg/Kg	1	2.00	106	70 - 130

Method Blank (1) QC Batch: 95156

QC Batch: 95156
Prep Batch: 80620

Date Analyzed: 2012-09-25
QC Preparation: 2012-09-25

Analyzed By: AR
Prepared By: AR

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride			<3.85	mg/Kg	4

Method Blank (1)

QC Batch: 95157

QC Batch: 95157
Prep Batch: 80620

Date Analyzed: 2012-09-25
QC Preparation: 2012-09-25

Analyzed By: AR
Prepared By: AR

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride			<3.85	mg/Kg	4

Method Blank (1)

QC Batch: 95158

QC Batch: 95158
Prep Batch: 80620

Date Analyzed: 2012-09-25
QC Preparation: 2012-09-25

Analyzed By: AR
Prepared By: AR

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride			<3.85	mg/Kg	4

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Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 94899
Prep Batch: 80416

Date Analyzed: 2012-09-18
QC Preparation: 2012-09-17

Analyzed By: CW
Prepared By: CW

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		1	252	mg/Kg	1	250	<9.09	101	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		1	296	mg/Kg	1	250	<9.09	118	70 - 130	16	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	118	119	mg/Kg	1	100	118	119	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 94948
Prep Batch: 80461

Date Analyzed: 2012-09-19
QC Preparation: 2012-09-18

Analyzed By: CM
Prepared By: CM

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	116	124	mg/Kg	1	100	116	124	61.5 - 159
n-Triacontane	118	125	mg/Kg	1	100	118	125	70 - 166

Laboratory Control Spike (LCS-1)

QC Batch: 94993
Prep Batch: 80494

Date Analyzed: 2012-09-20
QC Preparation: 2012-09-19

Analyzed By: CM
Prepared By: CM

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Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	110	107	mg/Kg	1	100	110	107	61.5 - 159
n-Triacontane	109	108	mg/Kg	1	100	109	108	70 - 166

Laboratory Control Spike (LCS-1)

QC Batch: 95120
Prep Batch: 80607

Date Analyzed: 2012-09-22
QC Preparation: 2012-09-22

Analyzed By: YG
Prepared By: YG

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	1.65	mg/Kg	1	2.00	<0.00470	82	70 - 130
Toluene		1	1.72	mg/Kg	1	2.00	<0.00980	86	70 - 130
Ethylbenzene		1	1.76	mg/Kg	1	2.00	<0.00500	88	70 - 130
Xylene		1	5.34	mg/Kg	1	6.00	<0.0170	89	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	1.70	mg/Kg	1	2.00	<0.00470	85	70 - 130	3	20
Toluene		1	1.75	mg/Kg	1	2.00	<0.00980	88	70 - 130	2	20
Ethylbenzene		1	1.79	mg/Kg	1	2.00	<0.00500	90	70 - 130	2	20
Xylene		1	5.42	mg/Kg	1	6.00	<0.0170	90	70 - 130	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.00	2.02	mg/Kg	1	2.00	100	101	70 - 130
4-Bromofluorobenzene (4-BFB)	2.30	2.30	mg/Kg	1	2.00	115	115	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 95131
Prep Batch: 80613

Date Analyzed: 2012-09-22
QC Preparation: 2012-09-22

Analyzed By: YG
Prepared By: YG

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		1	22.1	mg/Kg	1	20.0	<1.22	110	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO		1	22.2	mg/Kg	1	20.0	<1.22	111	70 - 130	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCSD Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.95	1.94	mg/Kg	1	2.00	98	97	70 - 130
4-Bromofluorobenzene (4-BFB)	2.19	2.20	mg/Kg	1	2.00	110	110	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 95136
Prep Batch: 80622

Date Analyzed: 2012-09-23
QC Preparation: 2012-09-23

Analyzed By: YG
Prepared By: YG

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	1.66	mg/Kg	1	2.00	<0.00470	83	70 - 130
Toluene		1	1.79	mg/Kg	1	2.00	<0.00980	90	70 - 130
Ethylbenzene		1	1.85	mg/Kg	1	2.00	<0.00500	92	70 - 130
Xylene		1	5.62	mg/Kg	1	6.00	<0.0170	94	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	1.65	mg/Kg	1	2.00	<0.00470	82	70 - 130	1	20
Toluene		1	1.80	mg/Kg	1	2.00	<0.00980	90	70 - 130	1	20
Ethylbenzene		1	1.87	mg/Kg	1	2.00	<0.00500	94	70 - 130	1	20
Xylene		1	5.69	mg/Kg	1	6.00	<0.0170	95	70 - 130	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCSD Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.99	1.98	mg/Kg	1	2.00	100	99	70 - 130
4-Bromofluorobenzene (4-BFB)	2.35	2.34	mg/Kg	1	2.00	118	117	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 95142
Prep Batch: 80622

Date Analyzed: 2012-09-23
QC Preparation: 2012-09-23

Analyzed By: YG
Prepared By: YG

Report Date: September 26, 2012
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Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		1	22.6	mg/Kg	1	20.0	<1.22	113	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO		1	20.9	mg/Kg	1	20.0	<1.22	104	70 - 130	8	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate			LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			1.94	1.92	mg/Kg	1	2.00	97	96	70 - 130
4-Bromofluorobenzene (4-BFB)			2.26	2.24	mg/Kg	1	2.00	113	112	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 95156
Prep Batch: 80620

Date Analyzed: 2012-09-25
QC Preparation: 2012-09-25

Analyzed By: AR
Prepared By: AR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2640	mg/Kg	1	2500	<3.85	106	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			2530	mg/Kg	1	2500	<3.85	101	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 95157
Prep Batch: 80620

Date Analyzed: 2012-09-25
QC Preparation: 2012-09-25

Analyzed By: AR
Prepared By: AR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2640	mg/Kg	1	2500	<3.85	106	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			2580	mg/Kg	1	2500	<3.85	103	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 95158
Prep Batch: 80620

Date Analyzed: 2012-09-25
QC Preparation: 2012-09-25

Analyzed By: AR
Prepared By: AR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2500	mg/Kg	1	2500	<3.85	100	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			2580	mg/Kg	1	2500	<3.85	103	85 - 115	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 309512

QC Batch: 94899
Prep Batch: 80416

Date Analyzed: 2012-09-18
QC Preparation: 2012-09-17

Analyzed By: CW
Prepared By: CW

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		1	279	mg/Kg	1	250	<9.09	112	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		1	283	mg/Kg	1	250	<9.09	113	70 - 130	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	124	119	mg/Kg	1	100	124	119	70 - 130

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Matrix Spike (MS-1) Spiked Sample: 309505

QC Batch: 94948
Prep Batch: 80461

Date Analyzed: 2012-09-19
QC Preparation: 2012-09-18

Analyzed By: CM
Prepared By: CM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
ORO	Q _s	Q _s	<17.1	mg/Kg	1	250	<17.1	0	58 - 129

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
ORO	Q _s	Q _s	<17.1	mg/Kg	1	250	<17.1	0	58 - 129	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	148	151	mg/Kg	5	100	148	151	61.5 - 159
n-Triacontane	152	148	mg/Kg	5	100	152	148	70 - 166

Matrix Spike (MS-1) Spiked Sample: 309506

QC Batch: 94993
Prep Batch: 80494

Date Analyzed: 2012-09-20
QC Preparation: 2012-09-19

Analyzed By: CM
Prepared By: CM

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	139	136	mg/Kg	1	100	139	136	61.5 - 159
n-Triacontane	143	147	mg/Kg	1	100	143	147	70 - 166

Matrix Spike (MS-1) Spiked Sample: 309227

QC Batch: 95120
Prep Batch: 80607

Date Analyzed: 2012-09-22
QC Preparation: 2012-09-22

Analyzed By: YG
Prepared By: YG

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	2.08	mg/Kg	1	2.00	<0.00470	104	70 - 130
Toluene		1	2.16	mg/Kg	1	2.00	<0.00980	108	70 - 130
Ethylbenzene		1	2.23	mg/Kg	1	2.00	<0.00500	112	70 - 130

continued ...

matrix spikes continued ...

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Xylene		1	6.75	mg/Kg	1	6.00	<0.0170	112	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit	
			Result	Units								
Benzene	Q _r	Q _r	1	1.60	mg/Kg	1	2.00	<0.00470	80	70 - 130	26	20
Toluene	Q _r	Q _r	1	1.65	mg/Kg	1	2.00	<0.00980	82	70 - 130	27	20
Ethylbenzene	Q _r	Q _r	1	1.68	mg/Kg	1	2.00	<0.00500	84	70 - 130	28	20
Xylene	Q _r	Q _r	1	5.10	mg/Kg	1	6.00	<0.0170	85	70 - 130	28	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.00	2.03	mg/Kg	1	2	100	102	70 - 130
4-Bromofluorobenzene (4-BFB)	2.30	2.32	mg/Kg	1	2	115	116	70 - 130

Matrix Spike (MS-1) Spiked Sample: 309227

QC Batch: 95131
Prep Batch: 80613

Date Analyzed: 2012-09-22
QC Preparation: 2012-09-22

Analyzed By: YG
Prepared By: YG

Param			F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	Qs	Qs	Qs	1	28.0	mg/Kg	1	20.0	<1.22	140	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO		1	24.1	mg/Kg	1	20.0	<1.22	120	70 - 130	15	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.03	1.98	mg/Kg	1	2	102	99	70 - 130
4-Bromofluorobenzene (4-BFB)	2.34	2.32	mg/Kg	1	2	117	116	70 - 130

Matrix Spike (MS-1) Spiked Sample: 309516

QC Batch: 95136
Prep Batch: 80622

Date Analyzed: 2012-09-23
QC Preparation: 2012-09-23

Analyzed By: YG
Prepared By: YG

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	1.75	mg/Kg	1	2.00	<0.00470	88	70 - 130
Toluene		1	1.95	mg/Kg	1	2.00	<0.00980	98	70 - 130
Ethylbenzene		1	2.02	mg/Kg	1	2.00	<0.00500	101	70 - 130
Xylene		1	6.14	mg/Kg	1	6.00	<0.0170	102	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	1.74	mg/Kg	1	2.00	<0.00470	87	70 - 130	1	20
Toluene		1	1.91	mg/Kg	1	2.00	<0.00980	96	70 - 130	2	20
Ethylbenzene		1	2.00	mg/Kg	1	2.00	<0.00500	100	70 - 130	1	20
Xylene		1	6.08	mg/Kg	1	6.00	<0.0170	101	70 - 130	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.97	1.94	mg/Kg	1	2	98	97	70 - 130
4-Bromofluorobenzene (4-BFB)	2.34	2.32	mg/Kg	1	2	117	116	70 - 130

Matrix Spike (MS-1) Spiked Sample:

QC Batch: 95142
Prep Batch: 80622

Date Analyzed: 2012-09-23
QC Preparation: 2012-09-23

Analyzed By: YG
Prepared By: YG

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		1	16.8	mg/Kg	1	20.0	<1.22	84	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO		1	18.5	mg/Kg	1	20.0	<1.22	92	70 - 130	10	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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matrix spikes continued ...

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.92	1.90	mg/Kg	1	2	96	95	70 - 130
4-Bromofluorobenzene (4-BFB)	2.23	2.26	mg/Kg	1	2	112	113	70 - 130

Matrix Spike (MS-1) Spiked Sample: 309508

QC Batch: 95156
Prep Batch: 80620

Date Analyzed: 2012-09-25
QC Preparation: 2012-09-25

Analyzed By: AR
Prepared By: AR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2500	mg/Kg	5	2500	63.4	97	78.9 - 121

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			2620	mg/Kg	5	2500	63.4	102	78.9 - 121	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 309518

QC Batch: 95157
Prep Batch: 80620

Date Analyzed: 2012-09-25
QC Preparation: 2012-09-25

Analyzed By: AR
Prepared By: AR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2470	mg/Kg	5	2500	76.6	96	78.9 - 121

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			2560	mg/Kg	5	2500	76.6	99	78.9 - 121	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Matrix Spike (MS-1) Spiked Sample: 309521

QC Batch: 95158
Prep Batch: 80620

Date Analyzed: 2012-09-25
QC Preparation: 2012-09-25

Analyzed By: AR
Prepared By: AR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2350	mg/Kg	5	2500	80.3	91	78.9 - 121

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			2470	mg/Kg	5	2500	80.3	96	78.9 - 121	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Calibration Standards

Standard (CCV-1)

QC Batch: 94899 Date Analyzed: 2012-09-18 Analyzed By: CW

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	270	108	80 - 120	2012-09-18

Standard (CCV-2)

QC Batch: 94899 Date Analyzed: 2012-09-18 Analyzed By: CW

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	281	112	80 - 120	2012-09-18

Standard (CCV-3)

QC Batch: 94899 Date Analyzed: 2012-09-18 Analyzed By: CW

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	249	100	80 - 120	2012-09-18

Standard (CCV-4)

QC Batch: 94899 Date Analyzed: 2012-09-18 Analyzed By: CW

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	272	109	80 - 120	2012-09-18

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Standard (CCV-1)

QC Batch: 95120

Date Analyzed: 2012-09-22

Analyzed By: YG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.0995	100	80 - 120	2012-09-22
Toluene		1	mg/kg	0.100	0.100	100	80 - 120	2012-09-22
Ethylbenzene		1	mg/kg	0.100	0.0955	96	80 - 120	2012-09-22
Xylene		1	mg/kg	0.300	0.291	97	80 - 120	2012-09-22

Standard (CCV-2)

QC Batch: 95120

Date Analyzed: 2012-09-22

Analyzed By: YG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.0987	99	80 - 120	2012-09-22
Toluene		1	mg/kg	0.100	0.0986	99	80 - 120	2012-09-22
Ethylbenzene		1	mg/kg	0.100	0.0933	93	80 - 120	2012-09-22
Xylene		1	mg/kg	0.300	0.282	94	80 - 120	2012-09-22

Standard (CCV-3)

QC Batch: 95120

Date Analyzed: 2012-09-22

Analyzed By: YG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.0976	98	80 - 120	2012-09-22
Toluene		1	mg/kg	0.100	0.0975	98	80 - 120	2012-09-22
Ethylbenzene		1	mg/kg	0.100	0.0927	93	80 - 120	2012-09-22
Xylene		1	mg/kg	0.300	0.280	93	80 - 120	2012-09-22

Standard (CCV-1)

QC Batch: 95131

Date Analyzed: 2012-09-22

Analyzed By: YG

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Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.984	98	80 - 120	2012-09-22

Standard (CCV-2)

QC Batch: 95131 Date Analyzed: 2012-09-22 Analyzed By: YG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.965	96	80 - 120	2012-09-22

Standard (CCV-3)

QC Batch: 95131 Date Analyzed: 2012-09-22 Analyzed By: YG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.928	93	80 - 120	2012-09-22

Standard (CCV-1)

QC Batch: 95136 Date Analyzed: 2012-09-23 Analyzed By: YG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.0940	94	80 - 120	2012-09-23
Toluene		1	mg/kg	0.100	0.0990	99	80 - 120	2012-09-23
Ethylbenzene		1	mg/kg	0.100	0.0955	96	80 - 120	2012-09-23
Xylene		1	mg/kg	0.300	0.290	97	80 - 120	2012-09-23

Standard (CCV-2)

QC Batch: 95136 Date Analyzed: 2012-09-23 Analyzed By: YG

Report Date: September 26, 2012
SUG Historical Releases

Work Order: 12091440
Trunk O #3 (1RP-1509)

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Lea Co., NM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.0861	86	80 - 120	2012-09-23
Toluene		1	mg/kg	0.100	0.0958	96	80 - 120	2012-09-23
Ethylbenzene		1	mg/kg	0.100	0.0946	95	80 - 120	2012-09-23
Xylene		1	mg/kg	0.300	0.287	96	80 - 120	2012-09-23

Standard (CCV-3)

QC Batch: 95136

Date Analyzed: 2012-09-23

Analyzed By: YG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.0858	86	80 - 120	2012-09-23
Toluene		1	mg/kg	0.100	0.0957	96	80 - 120	2012-09-23
Ethylbenzene		1	mg/kg	0.100	0.0944	94	80 - 120	2012-09-23
Xylene		1	mg/kg	0.300	0.285	95	80 - 120	2012-09-23

Standard (CCV-1)

QC Batch: 95142

Date Analyzed: 2012-09-23

Analyzed By: YG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.966	97	80 - 120	2012-09-23

Standard (CCV-2)

QC Batch: 95142

Date Analyzed: 2012-09-23

Analyzed By: YG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.922	92	80 - 120	2012-09-23

Report Date: September 26, 2012
SUG Historical Releases

Work Order: 12091440
Trunk O #3 (1RP-1509)

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Lea Co., NM

Standard (CCV-3)

QC Batch: 95142 Date Analyzed: 2012-09-23 Analyzed By: YG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.920	92	80 - 120	2012-09-23

Standard (CCV-1)

QC Batch: 95156 Date Analyzed: 2012-09-25 Analyzed By: AR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2012-09-25

Standard (CCV-2)

QC Batch: 95156 Date Analyzed: 2012-09-25 Analyzed By: AR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	99.5	100	85 - 115	2012-09-25

Standard (CCV-1)

QC Batch: 95157 Date Analyzed: 2012-09-25 Analyzed By: AR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	97.7	98	85 - 115	2012-09-25

Standard (CCV-2)

QC Batch: 95157 Date Analyzed: 2012-09-25 Analyzed By: AR

Report Date: September 26, 2012
SUG Historical Releases

Work Order: 12091440
Trunk O #3 (1RP-1509)

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Lea Co., NM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	102	102	85 - 115	2012-09-25

Standard (CCV-1)

QC Batch: 95158 Date Analyzed: 2012-09-25 Analyzed By: AR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	99.7	100	85 - 115	2012-09-25

Standard (CCV-2)

QC Batch: 95158 Date Analyzed: 2012-09-25 Analyzed By: AR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2012-09-25

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-12-4	Midland

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

LAB Order ID # 12091440

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Ave, Ste 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944

BioAquaic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 76006
Tel (972) 242-7750

Company Name: Basin Environmental Service Technologies		Phone #: 575-396-2378	
Address: P.O. 301 Lovington, NM, 88260		Fax #: 575-396-1429	
Contact Person: Rose Slade (SUG) Joel Lowry (Basin)		E-mail: pm@basinenvironment.com rose.slade@sug.com	
Invoice to: Southern Union Gas Services		Project Name: Trunk "O" #3 (IRP-1509)	
Project #: SUG Historical Releases		Sampler Signature: <i>Mark Davis</i>	
Project Location: (include state) Lea County, New Mexico		Matrix: WATER, AIR, SOIL, SLUDGE	
LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	VOLUME/AMOUNT
50505	A Stock pile	1	
506	A North Wall	1	
507	A East Wall	1	
508	A South Wall	1	
509	A West Wall	1	
510	A Floor	1	
511	B North Wall #1	1	
512	B North Wall #2	1	
513	B North Wall #3	1	
514	B South Wall #1	1	
515	B South Wall #2	1	
Relinquished by: <i>William Hernandez</i>		Company: TA	Date: 9/14/12
Relinquished by: <i>William Hernandez</i>		Company: TA	Date: 9/14/12
Relinquished by: <i>William Hernandez</i>		Company: TA	Date: 9/17/12

LAB #	DATE	TIME	PRESERVATIVE METHOD	MATRIX	WATER	AIR	SOIL	SLUDGE	HCL	HNO3	H2SO4	NaOH	ICE	NONE	SAMPLING
50505	9/14/12	09:40			X	X	X		X				X		
506	9/14/12	09:10			X	X	X		X				X		
507	9/14/12	09:20			X	X	X		X				X		
508	9/14/12	09:30			X	X	X		X				X		
509	9/14/12	09:40			X	X	X		X				X		
510	9/14/12	09:50			X	X	X		X				X		
511	9/14/12	10:00			X	X	X		X				X		
512	9/14/12	10:10			X	X	X		X				X		
513	9/14/12	10:20			X	X	X		X				X		
514	9/14/12	10:30			X	X	X		X				X		
515	9/14/12	10:40			X	X	X		X				X		

LAB #	DATE	TIME	INST	OBS	COR
50505	9/14/12	15:50	3.1		
506	9/14/12	15:50	3.1		
507	9/14/12	15:50	3.1		
508	9/14/12	15:50	3.1		
509	9/14/12	15:50	3.1		
510	9/14/12	15:50	3.1		
511	9/14/12	15:50	3.1		
512	9/14/12	15:50	3.1		
513	9/14/12	15:50	3.1		
514	9/14/12	15:50	3.1		
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50505	9/14/12	15:50	3.1		
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508	9/14/12	15:50	3.1		
509	9/14/12	15:50	3.1		
510	9/14/12	15:50	3.1		
511	9/14/12	15:50	3.1		
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50505	9/14/12	15:50	3.1		
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(BioAquatic) 2501 Mayes Rd., Suite 100

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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Rose Slade
Southern Union Gas Services, Ltd.-Monahans
801 S. Loop 464
Monahans, TX, 79756

Report Date: October 2, 2012

Work Order: 12100211



Project Location: Lea Co., NM
Project Name: Trunk O #3 (1RP-1509)
Project Number: SUG Historical Releases

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
310612	A Floor @ 4'	soil	2012-10-01	10:00	2012-10-02

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 8 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

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Case Narrative

Samples for project Trunk O #3 (1RP-1509) were received by TraceAnalysis, Inc. on 2012-10-02 and assigned to work order 12100211. Samples for work order 12100211 were received intact at a temperature of 6.4 C. Sample was received on ice.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (Titration)	SM 4500-Cl B	80831	2012-10-02 at 09:51	95393	2012-10-02 at 14:52

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 12100211 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 310612 - A Floor @ 4'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2012-10-02	Analyzed By:	AR
QC Batch:	95393	Sample Preparation:	2012-10-02	Prepared By:	AR
Prep Batch:	80831				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			477	mg/Kg	5	4.00

Method Blanks

Method Blank (1) QC Batch: 95393

QC Batch: 95393
Prep Batch: 80831

Date Analyzed: 2012-10-02
QC Preparation: 2012-10-02

Analyzed By: AR
Prepared By: AR

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride			<3.85	mg/Kg	4

Report Date: October 2, 2012
SUG Historical Releases

Work Order: 12100211
Trunk O #3 (1RP-1509)

Page Number: 6 of 8
Lea Co., NM

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 95393
Prep Batch: 80831

Date Analyzed: 2012-10-02
QC Preparation: 2012-10-02

Analyzed By: AR
Prepared By: AR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2500	mg/Kg	1	2500	<3.85	100	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			2560	mg/Kg	1	2500	<3.85	102	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 310612

QC Batch: 95393
Prep Batch: 80831

Date Analyzed: 2012-10-02
QC Preparation: 2012-10-02

Analyzed By: AR
Prepared By: AR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			3030	mg/Kg	5	2500	477	102	78.9 - 121

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			3130	mg/Kg	5	2500	477	106	78.9 - 121	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Calibration Standards

Standard (CCV-1)

QC Batch: 95393				Date Analyzed: 2012-10-02			Analyzed By: AR	
Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	99.3	99	85 - 115	2012-10-02

Standard (CCV-2)

QC Batch: 95393				Date Analyzed: 2012-10-02			Analyzed By: AR	
Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	101	101	85 - 115	2012-10-02

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-12-4	Midland

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

ORIGINAL COPY



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5002 Basin Street, Suite A1
(BioAquatic) 2501 Mayes Rd., Suite 100

Lubbock, Texas 79424
El Paso, Texas 79922
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800-378-1296

806-794-1296

FAX 806-794-1298

915-585-3443

FAX 915-585-4944

432-689-6301

FAX 432-689-6313

972-242-7750

E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Rose Slade
Southern Union Gas Services, Ltd.-Monahans
801 S. Loop 464
Monahans, TX, 79756

Report Date: October 9, 2012

Work Order: 12100535



Project Location: Lea Co., NM
Project Name: Trunk O #3 (1RP-1509)
Project Number: SUG Historical Releases

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
311176	A Floor @ 5'	soil	2012-10-03	13:00	2012-10-05

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 7 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Report Contents

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Sample 311176 (A Floor @5')	4
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QC Batch 95557 - Method Blank (1)	5
QC Batch 95557 - MS (1)	5
Calibration Standards	6
QC Batch 95557 - ICV (1)	6
QC Batch 95557 - CCV (1)	6
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Case Narrative

Samples for project Trunk O #3 (1RP-1509) were received by TraceAnalysis, Inc. on 2012-10-05 and assigned to work order 12100535. Samples for work order 12100535 were received intact at a temperature of 7.9 C. Sample was received on ice.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (Titration)	SM 4500-Cl B	80979	2012-10-09 at 12:00	95557	2012-10-09 at 12:17

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 12100535 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 311176 - A Floor @ 5'

Laboratory:	Lubbock		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	95557	Date Analyzed:	2012-10-09
Prep Batch:	80979	Sample Preparation:	2012-10-09
		Prep Method:	N/A
		Analyzed By:	LM
		Prepared By:	LM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			10.0	mg/Kg	1	5.00

Method Blanks

Method Blank (1) QC Batch: 95557

QC Batch: 95557
Prep Batch: 80979

Date Analyzed: 2012-10-09
QC Preparation: 2012-10-09

Analyzed By: LM
Prepared By: LM

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride			<3.05	mg/Kg	5

Matrix Spike (MS-1) Spiked Sample: 311176

QC Batch: 95557
Prep Batch: 80979

Date Analyzed: 2012-10-09
QC Preparation: 2012-10-09

Analyzed By: LM
Prepared By: LM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			500	mg/Kg	1	500	10	98	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			505	mg/Kg	1	500	10	101	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Calibration Standards

Standard (ICV-1)

QC Batch: 95557				Date Analyzed: 2012-10-09			Analyzed By: LM	
Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	102	102	85 - 115	2012-10-09

Standard (CCV-1)

QC Batch: 95557				Date Analyzed: 2012-10-09			Analyzed By: LM	
Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	98.0	98	85 - 115	2012-10-09

Appendix

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-	WBE	237019	TraceAnalysis

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U	The analyte is not detected above the SDL

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Please note, each attachment may consist of more than one page.

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Carrier # Carry in

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Trunk "0" #3

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: Mathew Casey	Mineral Owner: Fee	Lease No.
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LOCATION OF RELEASE

Unit Letter N	Section 27	Township 22S	Range 36E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
------------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	---------------

Latitude N32 21.511 Longitude W103 15.408

NATURE OF RELEASE

Type of Release : Crude Oil, Produced water, and Natural Gas	Volume of Release: 50 Bbbls Fluid and 360 MCF Nat. Gas	Volume Recovered 0 Bbbls crude Oil and produced water
Source of Release : 30" Natural Gas Pipeline	Date and Hour of Occurrence not known	Date and Hour of Discovery 7/21/07 Time: 7:00 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD on call representative	
By Whom? Tony Savoie	Date and Hour: 7/21/07 7:15 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 began shutting the line in at 7:45 pm. All of the fluid lost had soaked into the ground before the vacuum trucks arrived on site.

Describe Area Affected and Cleanup Action Taken. Approximately 5100 Square feet of pasture land and approximately 3672 square feet of caliche lease road was impacted by the release. No cleanup actions were taken at the time of the release.

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.

Signature: Tony Savoie		OIL CONSERVATION DIVISION	
Printed Name: John A. Savoie		Approved by District Supervisor: [Signature]	
Title: Remediation Supervisor		Approval Date: 8-2-07	Expiration Date: 10-20-07
E-mail Address: tony.savoie@sug.com		Conditions of Approval:	
Date: 7/31/07 Phone: 505-395-2116		SUBMIT FINAL C-141 w/ SUPPORTING DOCUMENTATION BY [Signature]	

* Attach Additional Sheets If Necessary

RP #1509

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

Initial Report ☐ Final Report ☒

Name of Company	Regency Field Services	Contact	Crystal Callaway
Address	801 S. Loop 464, Monahans, TX, 79756	Telephone No.	817-302-9407
Facility Name: Trunk "O" #3 (RP-1509) Lea County Field Dept.		Facility Type	Natural Gas Gathering
Surface Owner Mathew Casey	Mineral Owner: Fee	Lease No.	

LOCATION OF RELEASE

Unit Letter N	Section 27	Township 22S	Range 36E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
------------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	---------------

Latitude N32 21.511

Longitude W103 15.408

NATURE OF RELEASE

Type of Release	Crude Oil, Produced water and Natural Gas	Volume of Release	50 Bbls Fluid and 360 MCF Nat. Gas	Volume Recovered	0 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	7/21/07 Time: 7:00 p.m.
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	NMOCD on call representative		
By Whom?	Tony Savoie	Date and Hour:	7/21/07 7:15 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:

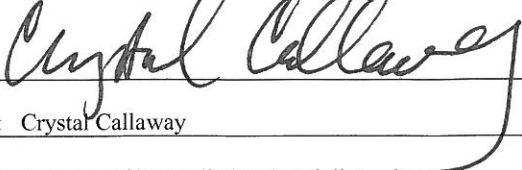
A 30" Natural Gas gathering line developed a leak due to excess fluid delivered by a producer cause the line to pressure up and leak fluid and natural gas. Crews began shutting the line in at 7:45 pm. All of the fluid lost had soaked into the ground before the vacuum trucks arrived on site.

Describe Area Affected and Cleanup Action Taken. Approximately 5,100 square feet of pasture land and approximately 3,672 square feet of caliche lease road was impacted by the release. No cleanup actions were taken at the time of the release. The final remediation will follow the NMOCD Guidelines for the remediation of leaks and spills.

On or around August 15, 2007, remediation activities were conducted at the Trunk "O" #3 Release Site by an environmental contractor that is no longer affiliated with the site. On August 10, 2012, the site was revisited; the excavation floor and sidewalls were advanced until laboratory analytical results from confirmation soil samples indicated concentrations of chloride, BTEX and TPH were less than NMOCD regulatory remediation action levels.

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: 	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Crystal Callaway	Approved by District Supervisor:	
Title: Senior Environmental Remediation Specialist	Approval Date:	Expiration Date:
E-mail Address: Crystal.Callaway@Regencygas.com	Conditions of Approval:	
Date: 10/13/2014	Phone: 817-807-9407	