Leking, Geoffrey R, EMNRD

SUG SUMP

From: Sent: To: Cc: Subject: Attachments: James C. Hunter, RG [jch@geolex.com] Wednesday, August 17, 2011 4:34 PM Leking, Geoffrey R, EMNRD 'Slade, Rose'; aag@geolex.com West Sump Remediation at Jal #3 ConceptualRemediation.pdf

HOBBS OCD AUG 1 7 2011 RECEIVED

Dear Mr. Leking:

Thank you for discussion with me regarding the proposed remediation at the Jal #3 West Sump area.

In today's meeting with Glenn von Gonten at the Santa Fe NMOCD office, we outlined the *in situ* remediation approach described in the attached Conceptual Remedial Design document.

Mr. von Gonten agreed that the approach was acceptable, and we will provide him with a more detailed proposal early next week. Mr. von Gonten suggested that we contact you and provide you with the conceptual design, and ask if you had any thoughts on soil amendments (fertilizers, etc.) and geotextile membranes to isolate the impacted soils.

Please contact me or Mr. Alberto Gutierrez at our office at 505-842-8000, or by replying to my email address (jch@geolex.com) if you have any questions or comments.

Thank you,

James C. Hunter, RG

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AUG 1 7 2011

Conceptual Remedial Design West Sump Below Ground Tank, Jal #3 Gas Plant Section 33, T24S, R37E, Lea County, New Mexico



August 17, 2011

On Behalf of: Southern Union Gas Services, Ltd. 301 Commerce Street, Suite 700 Forth Worth, Texas 76102 Telephone: (817) 302-9400

Prepared By: Geolex, Inc. 500 Marquette Avenue NE, Suite 1350 Albuquerque, New Mexico 87102 Telephone: (505) 842-8000





1.0 BACKGROUND

In March 2011, pursuant to NMOCD approval of a workplan dated March 25, 2011, Southern Union Gas Services (SUGS) began to remove and retrofit several below grade wastewater sumps (BGWS) at their Jal #3 gas plant, located in Section 33, T24S, R37E in Lea County, New Mexico. The locations of those sumps are shown in Plate 1.

In June 2011, during the removal of the West Sump (Area 3 in Plate 1), staining was observed in soils adjacent to, and beneath the, removed, former BGWS. After removal, soil sampling and analyses confirmed the presence of hydrocarbon compounds in the soils. Corrective action was initiated, and the release was reported to NMOCD (Form C-141) on July 11, 2011 (Appendix A).

2.0 INVESTIGATIONS AND INITIAL REMEDIATION AT WEST SUMP AREA

The initial excavation to remove the former sump resulted in an excavation approximately 7 to 11 feet deep, and 10 by 15 feet in area. On June 7, 2011 soil samples were collected from areas where stained soils were observed. The results are included in Appendix B, and summarized in Table 1. These samples indicated elevated levels of total petroleum hydrocarbons (TPH) up to 18,200 mg/kg (sample 41-9095-002).

After review of the analytical data, SUGS excavated and removed approximately 50 cubic yards of contaminated soils from this area, and transported the soils to the Sundance Services' Parabo Facility in Eunice, New Mexico on July 11, 2011 (Appendix C).

Following the removal of contaminated soils, SUGS collected 5 additional samples from the bottom of the excavation. The results are summarized in Table 2 and the laboratory reports are attached in Appendix D. The post-excavation samples show significantly lower levels of TPH (average of 3060 mg/kg), indicating that the bulk of the hydrocarbon-contaminated soils were removed by the excavation. The vast majority (92.7%) of the average hydrocarbons are $C_{12} - C_{28}$ Diesel Range. Materials in this molecular weight range are significantly less mobile than hydrocarbons in the $C_6 - C_{12}$ Gasoline Range, which only represented 5.4% of the total.

As seen in Figure 1, the location of the former BGWS is tightly constrained by the Turbine Building (background), a scrubber (right of the excavation), and a 30-inch natural gas pipeline (foreground of the excavation). Figure 2 shows the extent of the excavation on June 7, prior to the remedial excavation.

Figure 3 shows the excavation after the removal of approximately 50 cubic yards of soils. The final excavation had an extent of approximately 20 by 11 feet, and a depth of 13 feet at its deepest point. Due the close proximity of the adjacent, active equipment and the instability of the soils, no further excavation is feasible or safe in this area.

3.0 PROPOSED FINAL REMEDIATION AND CLOSURE

3.1 Site Geology and Hydrogeology

The Jal #3 site is almost entirely covered by man-made or disturbed natural material overlying Holocene reddish brown dune sand, underlain by a hard caliche surface or calcareous silts which may be found in buried valleys or internally drained Quaternary playas. These Quaternary and Holocene deposits are

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underlain by the discontinuous Ogallala Formation and the underlying Triassic redbeds of the Dockum Group (Nicholson & Clebsch, 1961).

The Ogallala aquifer is the principal source of potable water in the area. The depth to groundwater is approximately 200 feet below ground surface (Figure 4). The background total dissolved solids (TDS) concentration for groundwater in the area is approximately 2,200 mg/l.

A search of the New Mexico State Engineer's data base shows that there are no recorded groundwater wells within one mile of the Jal #3 plant.

3.2 Regulatory Issues

The BGWS in question was being retrofit (per 19.15.17.11 I(1-6) NMAC) and was operated under 19.15.17.12 (D) NMAC. This status was acknowledged by NMOCD in the approved plan provided to NMOCD on March 25, 2011. As described in that letter, if visual evidence of a release is detected, representative soil samples would be collected and analyzed according to 19.15.17.13 E (1-6) NMAC to determine if any impacts to the soils have been caused by previous operations, followed by documentation on Form C-141 if needed. As discussed in Section 2.0 above, sampling was conducted and the release was reported to NMOCD (Appendix A).

In the approved March 25 workplan, SUGS agreed to develop appropriate remediation plans for any released discovered during the BGWS retrofitting. Due to the site conditions documented in Section 2.0, SUGS believes that more extensive excavation in unsafe and is physically and technically infeasible (see 19.15.30.9 (E) NMAC). Therefore, no additional removal of residually impacted soils is possible.

3.3 Proposed Remediation

SUGS requests NMOCD approval to treat the remaining residual impacted soils *in situ*, using selected fertilizers and/or soil amendments to facilitate biological degradation of the hydrocarbons, and isolating the affected soils by means of an overlying impermeable barrier to prevent any downward infiltration of surface precipitation. Following the emplacement of the barrier, the replacement pre-fabricated double-wall sump/tank will be placed above the moisture barrier and the remaining excavation will be backfilled with compacted, clean fill. The location will be marked with permanent monuments to prevent any potential, unintentional future damage to the new sump or the moisture barrier.

This approach will be effective in preventing any further downward migration of the hydrocarbons, and will prevent the movement of any hydrocarbons to the underlying aquifer. This request is based on the following primary considerations:

- The bulk of the hydrocarbon-contaminated soils were removed by the excavation,
- The depth to groundwater is approximately 200 feet (see Figure 4),
- Very low soil moisture (5.1 to 19 percent; average 8.28 in deeper samples; Table 2),
- The relatively high molecular weight of the hydrocarbons (92.7% Diesel range; Table 2), which indicates low mobility, and
- The lack of groundwater receptors within one mile of the release.

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If this approach is acceptable to NMOCD, SUGS will prepare a formal, detailed proposal for the remediation based on these concepts for NMOCD approval. SUGS will promptly implement the remediation following NMOCD's final approval.

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TABLES

Table 1: Results of Sc	oil Samples Collec	ted on June 7, 2	011
ANALYSES	Sample	Sample	NMOCD Standard
	41-9095-001 (11 ft)	419095-002 (7 ft)	
Chloride (mg/Kg)	401	210	250
Percent Moisture (%)	19.1	7.88	na
C6-C12 Gasoline Range Hydrocarbons (mg/kg)	DN	2930	na
C12-C28 Diesel Range Hydrocarbons (mg/kg)	1390	14,700	na
C28-C35 Oil Range Hydrocarbons (mg/kg)	163	591	na
Total TPH (mg/kg)*	1550	18,200	100
Reporting Limit for Hydrocarbons (mg/kg)	17.4	163	na

			Table	e 2: Results o	f Soil Samples C	ollected on June 1	6, 2011
ANALYSES	Sample	Sample	Sample	Sample	Sample	Average (Using	NMOCD
	42095-001	42095-002	42095-003	42095-004	42095-005	Reporting Limit for	Standard
	(NW @ 12 ft)	(EW @ 12 ft)	(SW @ 12 ft)	(WW @ 12 ft)	(Floor @ 13 ft)	ND's)	
Chloride (mg/Kg)	87	1440	1710	1270	68.2	914	250
Percent Moisture (%)	13.6	8.66	5.21	7.65	6.27	8.28	na
C6-C12 Gasoline Range Hydrocarbons (mg/kg)	DN	134	367	ND	156	167 (5.4% TPH)	na
C12-C28 Diesel Range Hydrocarbons (mg/kg)	344	2550	7100	1350	2850	2839 (92.7% TPH)	na
C28-C35 Oil Range Hydrocarbons (mg/kg)	38.3	164	125	ND	124	123 (4% TPH)	na
Total TPH (mg/kg)*	382	2850	7590	1350	3130	3060	100
Reporting Limit for Hydrocarbons (mg/kg)	17.4	81.7	78.7	162	80.2	na	na
Reporting Limit for Hydrocarbons (mg/kg)	17.4	81.7	78.7	162	80.2	na	

* Total Petroleum Hydrocarbons (TPH) values rounded by Laboratory

FIGURES



Figure 1: Jal #3 BGWS Removal of #1 Tank



Figure 2: Original Excavation on 7/7/2011



Figure 3: Final Excavation Extents, July 11, 2011 (Dimensions of the excavation are: 20' wide x 21' length and 13 ' in depth)





Figure 4: Groundwater Depths in Area of SUGS Jal #3 Gas Plant (After Chevron-Texaco 2005)

APPENDIX A: Form C-141

State of New Mexico **Energy Minerals and Natural Resources**

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

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

Release Notification and Corrective Action

OPERATOR

	OPERATOR	\boxtimes	Initial Report	Final Report
Name of Company: Southern Union Gas Services	Contact: Rose Slade			
Address : 801 South Loop 464 Monahans, TX 79756	Telephone No. 817-302-9716			
Facility Name: Jal #3 Plant	Facility Type : Natural Gas Plant			

Surface Owner: Lea Partners Ltd.

Lease No. API #30-025-28822

LOCATION OF RELEASE

Mineral Owner:

Unit Letter	Section 33	Township 24S	Range 37E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea County

Latitude 32 10'27"N Longitude 103 10'27"W

NATURE OF RELEASE

Type of Release : Produced water/hydrocarbons	Volume of Release: Unknown	Volume Recovered: 0	
Source of Release : Below ground tank	Date and Hour of Occurrence:	Date and Hour of Discovery:	
Was Immediate Notice Given?	Unknown	6/13/2011 at 11:00 AM	
Ves No X Not Required	If YES, To whom?		
By Whom?	Data and Hours		
By Whom? Was a Watercourse Reached?	If VES Volume Impacting the W	targourca	
Yas a walchourse Reacheur	II 125, volume impacting the w	actourse.	
If a Watercourse was Impacted, Describe Fully.*			
			•
Describe Cause of Problem and Remedial Action Taken *			
While removing a below ground tank at the Jal #3 plant corrosion around	d the bottom of the BGT was discover	ed. It appeared that leakage had o	occurred
from the tank due to internal corrosion.			
			-
Describe Area Affected and Cleanup Action Taken.*			
Approximately 50 cy of impacted soil was removed from underneath and	d around the BGT. The soil was trans	borted to Sundance services for di	sposal. A
of method. Once we reached around 13ft in denth we no longer could up	se the hydro-yac due to the hard rock	urface. There are several pieces of	e this type
equipment and piping in the area that causes safety concerns of the exca-	vation.	arrace. There are several preces	~
I hereby certify that the information given above is true and complete to	the best of my knowledge and unders	and that pursuant to NMOCD rul	es and
regulations all operators are required to report and/or file certain release	notifications and perform corrective a	ctions for releases which may end	anger
should their operations have failed to adequately investigate and remedia	the contamination that nose a threat to	does not relieve the operator of it	ability
or the environment. In addition, NMOCD acceptance of a C-141 report	does not relieve the operator of respon	sibility for compliance with any o	other
federal, state, or local laws and/or regulations.	1 1	, , ,	
	OIL CONSER	VATION DIVISION	
nos Alver			
Signature: //www.			
Printed Name: Rosa L. Slade	Approved by District Supervisor:		
Title: EHS Compliance Specialist	Approval Date:	Expiration Date:	
E-mail Address: rose,slade@sug.com	Conditions of Approval:	Attached []	
Date: 7/11/2011 Phone: 422 040 5147			

* Attach Additional Sheets If Necessary

APPENDIX B:

Soil Analyses for June 7, 2011

Analytical Report 419095

for

Southern Union Gas Services- Monahans

Project Manager: Rose Slade Jal #3 Plant GE Sump Removal

10-JUN-11

Collected By: Client



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Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

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

> Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330) Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370) Xenco-Boca Raton (EPA Lab Code: FL01273): Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917) North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)

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10-JUN-11

Project Manager: **Rose Slade Southern Union Gas Services- Monahans** 1507 W. 15th Street Monahans, TX 79756

Reference: XENCO Report No: 419095 Jal #3 Plant GE Sump Removal Project Address: Jal, NM

Rose Slade:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 419095. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 419095 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

GO TH

Brent Barron, II Odessa Laboratory Manager

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Sample Cross Reference 419095



Southern Union Gas Services- Monahans, Monahans, TX

Jal #3 Plant GE Sump Removal

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Floor @ 11 Feet bgs	S	Jun-07-11 16:05		419095-001
Floor @ 7 Feet bgs	S	Jun-07-11 16:00		419095-002



CASE NARRATIVE

Client Name: Southern Union Gas Services- Monahans Project Name: Jal #3 Plant GE Sump Removal



Project ID: Work Order Number: 419095 Report Date: 10-JUN-11 Date Received: 06/08/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-859265 TPH By SW8015 Mod Batch 859265

RPD outside QC limits for C28-C35 between sample and sample duplicate. Samples affected are: 419095:001-002



Contact: Rose Slade

Project Id:

Certificate of Analysis Summary 419095 Southern Union Gas Services- Monahans, Monahans, TX Project Name: Jal #3 Plant GE Sump Removal



Date Received in Lab: Wed Jun-08-11 08:05 am Report Date: 10-JUN-11

Analysis Requested Lab Id: Analysis Requested Depth: Matrix: Matrix: Anions hy F300 Evenand d	419095-001 Floor @ 11 Feet bgs	1000200011	Project Manager:	Brent Barron, II
Analysis Requested Lab Id: Analysis Requested Depth: Matrix: Matrix: Anions by F300 Extended.	419095-001 Floor @ 11 Feet bgs	10005 000		
Analysis Requested Field Id: Depth: Matrix: Sampled: Anione by F300 Economic	Floor @ 11 Feet bgs	700-060614		
Anutysis Nequesicu Depth: Matrix: Sampled: Anions hy F300 E-woodd		Floor @ 7 Feet bgs		
A nions hy F300 Evenedd				
Anions hv F300 Evenedd	SOIL	SOIL		
Aniane hv F300 Eutenstad.	Jun-07-11 16:05	Jun-07-11 16:00		
Analyzed:	Jun-08-11 11:30	Jun-08-11 11:30		
Units/RL:	mg/kg RI	L mg/kg RL		
Chloride	401 20.	.8 210 22.8		
Percent Moisture Extracted:				
Analyzed:	Jun-08-11 17:00	Jun-08-11 17:00		
Units/RL:	% RI	L % RL		
Percent Moisture	19.1 1.0	7.88 1.00		
TPH By SW8015 Mod Extracted:	Jun-08-11 09:45	Jun-08-11 09:45		
Analyzed:	Jun-08-11 13:31	Jun-08-11 13:59		
Units/RL:	mg/kg RI	L mg/kg RL		
C6-C12 Gasoline Range Hydrocarbons	ND 92.	7 2930 163		
C12-C28 Diesel Range Hydrocarbons	1390 92.	7 14700 163		
C28-C35 Oil Range Hydrocarbons	163 92.	7 591 163		
Total TPH	1550 92.	7 18200 163		

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

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Odessa Laboratory Manager Brent Barron, II

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Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL Below Reporting Limit.
- **RL** Reporting Limit
- **MDL** Method Detection Limit
- PQL Practical Quantitation Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable
- + Outside XENCO's scope of NELAC Accreditation.

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Form 2 - Surrogate Recoveries

Project Name: Jal #3 Plant GE Sump Removal

Work Orders : 419095	,	S Detek	Project II	D:		
Units: mg/kg	Date Analyzed: 06/08/11 12:03	SUR	ROGATE RI	ECOVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		112	99.9	112	70-135	
o-Terphenyl		48.8	50.0	98	70-135	
Lab Batch #: 859265	Sample: 604688-1-BSD / BS	D Batch:	1 Matrix	:Solid		
Units: mg/kg	Date Analyzed: 06/08/11 12:33	SUR	ROGATE RI	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		110	100	110	70-135	
o-Terphenyl		47.3	50.2	94	70-135	
Lab Batch #: 859265	Sample: 604688-1-BLK / BL	K Batch:	1 Matrix	Solid		
Units: mg/kg	Date Analyzed: 06/08/11 13:02	SUR	ROGATE RI	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		103	100	103	70-135	
o-Terphenyl		50.7	50.1	101	70-135	
Lab Batch #: 859265	Sample: 419095-001 / SMP	Batch:	1 Matrix:	Soil		
Units: mg/kg	Date Analyzed: 06/08/11 13:31	SUR	ROGATE RI	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		105	100	105	70-135	
o-Terphenyl		53.4	50.0	107	70-135	
Lab Batch #: 859265	Sample: 419095-002 / SMP	Batch:	1 Matrix:	Soil		
Units: mg/kg	Date Analyzed: 06/08/11 13:59	SUR	ROGATE RI	ECOVERY	STUDY	
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		118	100	118	70-135	
o-Terphenyl		36.3	50.1	72	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Jal #3 Plant GE Sump Removal

Work Orders: 419095,			Project II):		
Lab Batch #: 859265	Sample: 419095-001 D / M	D Batc	h: 1 Matrix:	Soil		
Units: mg/kg	Date Analyzed: 06/08/11 14:28	SU	RROGATE RI	ECOVERY S	STUDY	
ТРН В	y SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		106	100	106	70-135	
o-Terphenyl		52.8	50.0	106	70-135	

* Surrogate outside of Laboratory QC limits
 ** Surrogates outside limits; data and surrogates confirmed by reanalysis
 *** Poor recoveries due to dilution
 Surrogate Recovery [D] = 100 * A / B
 All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: Jal #3 Plant GE Sump Removal

Work Order #: 419095 Analyst: LATCOR Lab Batch ID: 859262

Date Prepared: 06/08/2011

Batch #: 1

Sample: 859262-1-BKS

Project ID: Date Analyzed: 06/08/2011 Matrix: Solid

Units: mg/kg		BLAN	K /BLANK S	PIKE / B	LANK S	PIKE DUPL	ICATE]	RECOVE	CRY STUD	Y	
Anions by E300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride	<0.420	10.0	10.1	101	10.0	10.3	103	2	75-125	20	
Analyst: BEV I ab Batch ID: 0500265 Samula: 601608 1	Da	te Prepar	ed: 06/08/201	1			Date A	nalyzed: 0 Matrix: S	6/08/2011		
Tan Date 10. 037203	CNG	Date	1								

Units: mg/kg		BLAN	K /BLANK S	PIKE / B	LANKS	PIKE DUPL	ICATE F	RECOVE	RY STUD	Y	
TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<15.0	666	771	77	1000	763	76	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	666	756	76	1000	777	78	3	70-135	35	

ſ

Relative Percent Difference RPD = 200*((C-F)/(C+F)) Blank Spike Recovery [D] = 100*(C)/[B] Blank Spike Duplicate Recovery [G] = 100*(F)/[E] All results are based on MDL and Validated for QC Purposes Page 9 of 13

Final 1.000



Form 3 - MS Recoveries



Flag

Project Name: Jal #3 Plant GE Sump Removal

Work Order #: 419095						
Lab Batch #: 859262			Pro	ject ID:		
Date Analyzed: 06/08/2011	Date Prepared: 06/08/	2011	Α	nalyst: L	ATCOR	
QC- Sample ID: 419095-001 S	Batch #: 1		Ν	Aatrix: Se	oil	
Reporting Units: mg/kg	MATRI	X / MAT	FRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	F
Analytes	[A]	[B]				
Chloride	401	494	943	110	75-125	

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

BRL - Below Reporting Limit



Sample Duplicate Recovery



Project Name: Jal #3 Plant GE Sump Removal

Lab Batch #: 859262 Project ID: Date Analyzed: 06/08/2011 Analyst: LATCOR QC- Sample ID: 419095-001 D Batch #: 1 Matrix: Soil Reporting Units: mg/g SAMPLE / SAMPLE DUPLICATE RECOVERY Anions by E300 Parent Sample Sample RPD Control Limits %RPD Flag Analyte 06/08/2011 Analyte: SAMPLE / SAMPLE DUPLICATE RECOVERY SAMPLE Sample Sample RPD Control Limits %RPD Flag %RPD Flag Flag %RPD Flag %RPD Flag %RPD Sample Sample Sample Sample Sample Sample Sample Sample Sam	Work Order #: 419095						
Date Analyzed: 06/08/2011 11:30 QC- Sample ID: Date Prepared: 06/08/2011 Batch #: Analyst: LATCOR Reporting Units: mg/kg SAMPLE / SAMPLE DUPLICATE RECOVERY Anions by E300 Parent Sample Result [A] Sample Result [B] RPD Control Limits % RPD Flag Chloride 401 357 12 20 Lab Batch #: 859257 Date Analyzed: Date Prepared: 06/08/2011 Analyst: LATCOR QC- Sample ID: 419095-001 D Batch #: 1 Matrix: Soil Reporting Units: % SAMPLE / SAMPLE DUPLICATE RECOVERY Percent Moisture Parent Sample Result [A] Sample Duplicate Result [A] RPD Control Limits % RPD Flag Percent Moisture Parent Sample Result [A] Sample Result [B] Sample Result [B] Sample Sample Result [B] RPD Control Limits % RPD Flag Percent Moisture Parent Sample Result [A] Sample Result [A] Sample Result [B] Control Result [B] Flag Reporting Units: Matrix: Soil Control Limits	Lab Batch #: 859262				Project I	D:	
QC- Sample ID: 419095-001 DBatch #: 1Matrix: SoilReporting Units: mg/kgSAMPLE / SAMPLE DUPLICATE RECOVERYAnions by E300Parent Sample Result [A]RPDControl Limits %RPDFlagAnalyte20Date Prepared: 06/08/2011 Batch #: 1Analyst: LATCOR Matrix: SoilFlagChloride4013571220Lab Batch #: 859257 Date Analyzed: 06/08/2011 17:00 QC- Sample ID: 419095-001 D Reporting Units: %Date Prepared: 06/08/2011 Batch #: 1Analyst: LATCOR Matrix: SoilPercent MoistureParent Sample Result [A]Sample Duplicate Result [B]RPDControl Limits %Percent MoistureParent Sample Result [A]Sample Duplicate Result [B]RPDControl Limits %Percent MoistureParent Sample Result [A]Sample Duplicate Result [B]RPDControl Limits %Percent Moisture19.120.7820Lab Batch #: 859265 Date Analyzed: 06/08/2011 14:28 QC- Sample ID: 419095-001 D Batch #: 1Matrix: SoilReporting Units: mg/kgSAMPLE / SAMPLE DUPLICATE RECOVERYTPH By SW8015 Mod (AnalyteParent Sample Result [A]Sample Result [B]RPD Sample Control Batch #: 1Color (C-C12 Gasoline Range Hydrocarbons<-92.7<92.7035Ci2-C28 Disel Range Hydrocarbons<-92.7<92.7035Ci2-C28 Disel Range Hydrocarbons13901360235Ci2-C28	Date Analyzed: 06/08/2011 11:30 Dat	e Prepar	ed: 06/08/2011	Ana	lyst: LATC	COR	
Reporting Units: mg/kg SAMPLE / SAMPLE DUPLICATE RECOVERY Anions by E300 Parent Sample Result [A] Sample Duplicate Result [A] RPD Sample Duplicate Result [A] RPD %RPD Control Limits %RPD Flag Chloride 401 357 12 20	QC- Sample ID: 419095-001 D	Batch	n #: 1	Mat	rix: Soil		
Anions by E300Parent Sample Result [A]Sample Duplicate Result [B]RPDControl Limits %RPDFlagChloride4013571220Lab Batch #: 859257Date Analyzed: QC- Sample ID: 419095-001 DDate Prepared: Batch #:06/08/2011 1000 DAnalyst:LATCORReporting Units: Percent MoistureParent Sample Result [A]Sample Matrix: Sample Sample Result [A]RPDControl Limits %RPDPercent MoistureParent Sample Result [A]Sample Result [B]RPDControl Limits %RPDPercent Moisture19.120.7820Lab Batch #: Analyte1Matrix: SoilFlagPercent Moisture19.120.7820Lab Batch #: (B]1Matrix: SoilFlagPercent Moisture19.120.7820Lab Batch #: (B]Sample Sample Result [B]RPDControl Limits %RPDPercent Moisture19.120.7820Lab Batch #: (C-Sample ID: 	Reporting Units: mg/kg		SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Chloride 401 357 12 20 Lab Batch #: 859257 Date Analyzed: 06/08/2011 Analyst: LATCOR QC- Sample ID: 419095-001 D Batch #: 1 Matrix: Soil Reporting Units: % SAMPLE / SAMPLE DUPLICATE RECOVERY Percent Moisture Parent Sample Result [A] Sample Duplicate [B] RPD Control Limits % RPD Flag Percent Moisture Parent Sample Result [B] Sample Duplicate [B] RPD Control Limits % RPD Flag Control Limits Date Prepared: 06/08/2011 Analyst: BEV QC- Sample ID: 419095-001 D Batch #: 1 Matrix: Soil Reporting Units: mg/kg SAMPLE / SAMPLE DUPLICATE RECOVERY Matrix: Soil Sample Soil Reporting Units: mg/kg SAMPLE / SAMPLE DUPLICATE RECOVERY Matrix: Soil Sample Sample Control Limits Sample Sample Sample Parent Sample Sample <th< td=""><td>Anions by E300 Analyte</td><td></td><td>Parent Sample Result [A]</td><td>Sample Duplicate Result [B]</td><td>RPD</td><td>Control Limits %RPD</td><td>Flag</td></th<>	Anions by E300 Analyte		Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Lab Batch #: 859257 Date Analyzed: 06/08/2011 17:00 Date Prepared: 06/08/2011 Analyst: LATCOR QC- Sample ID: 419095-001 D Batch #: 1 Matrix: Soil Reporting Units: % SAMPLE / SAMPLE DUPLICATE RECOVERY Percent Moisture Parent Sample Result [A] Sample Duplicate Result [B] Control Limits %RPD Flag Percent Moisture Parent Sample Result [A] Sample Duplicate Result [B] RPD Control Limits %RPD Flag Lab Batch #: 859265 Date Prepared: 06/08/2011 Analyst: BEV Control Flag QC- Sample ID: 419095-001 D Batch #: 1 Matrix: Soil Control Flag Reporting Units: mg/kg SAMPLE / SAMPLE DUPLICATE RECOVERY TPH By SW8015 Mod Parent Sample Result [A] Sample Duplicate Result [A] Control Limits %RPD Flag C6-C12 Gasoline Range Hydrocarbons <92.7 <92.7 0 35 Flag C6-C12 Gasoline Range Hydrocarbons 1390 1360 2 35 Flag C6-C12 Casoline Range Hydrocarbons 1390 1360 2 35 Flag	Chloride		401	357	12	20	
Date Analyzed:06/08/2011 17:00 (QC- Sample ID:Date Prepared:06/08/2011 (Batch #:1Maltrix:CORQC- Sample ID:419095-001 D (Batch #:Batch #:1Matrix:SoilReporting Units:%SAMPLE / SAMPLEDUPLICATERECOVERYPercent MoistureParent Sample (Result [A]Sample (B]RPDControl Limits %RPDFlagPercent Moisture19.120.7820Lab Batch #:859265 (Date Analyzed:06/08/2011 14:28 (D6/08/2011 14:28 (B]Date Prepared:06/08/2011 (Batch #:Analyst:BEV (Batch #:Sample (B)EVReporting Units:mg/kgSAMPLE / SAMPLE DUPLICATERECOVERYTPH By SW8015 ModParent Sample (Result [A]Sample (B]RPDControl Limits %RPDC6-C12 Gasoline Range Hydrocarbons<92.7	Lab Batch #: 859257						
QC- Sample ID: 419095-001 DBatch #: 1Matrix: SoilReporting Units: %SAMPLE / SAMPLE DUPLICATE RECOVERYPercent MoistureParent Sample Result [A]Sample Duplicate Result [B]RPDControl Limits %RPDFlagPercent Moisture19.120.7820Lab Batch #:859265 Date Analyzed:Date Prepared:06/08/2011 ResultAnalyst: BEV Matrix: SoilSample Percent MoistureFlagQC- Sample ID:419095-001 DBatch #:1Matrix: SoilFlagReporting Units:mg/kgSAMPLE / SAMPLE DUPLICATE RECOVERYFlagTPH By SW8015 ModParent Sample Result [A]Sample Merent Sample Result [B]Sample Matrix: SoilFlagC6-C12 Gasoline Range Hydrocarbons<92.7<92.7035FlagC6-C12 Gasoline Range Hydrocarbons<92.7<92.7035FlagC6-C12 Gasoline Range Hydrocarbons<92.7<92.7035FlagC6-C12 Gasoline Range Hydrocarbons13901360235FC28-C35 Oil Range Hydrocarbons1632514335F	Date Analyzed: 06/08/2011 17:00 Date	e Prepar	ed: 06/08/2011	Ana	yst:LATC	OR	
Reporting Units: %SAMPLE / SAMPLE DUPLICATE RECOVERYPercent MoistureParent Sample Result [A]Sample Duplicate Result [B]RPDControl Limits %RPDFlagPercent Moisture19.120.7820Percent Moisture19.120.7820Lab Batch #:859265Date Prepared: 06/08/2011Analyst: BEVQC- Sample ID:419095-001 DBatch #:1Matrix: SoilReporting Units:mg/kgSAMPLE / SAMPLEDUPLICATE RECOVERYTPH By SW8015 ModParent Sample Result [A]Sample Duplicate Result [B]RPDControl Limits %RPDC6-C12 Gasoline Range Hydrocarbons<92.7	QC- Sample ID: 419095-001 D	Batch	#: 1	Mat	rix: Soil		
Percent MoistureParent Sample Result [A]Sample Duplicate Result [B]RPDControl Limits %RPDFlagPercent Moisture19.120.7820Lab Batch #:859265 Date Analyzet:06/08/2011 06/08/2011Analyst: BEV Matrix: SoilSample Duplicate Result [B]Analyst: BEVQC- Sample ID:419095-001 D Batch #:1Matrix: SoilReporting Units:mg/kgSAMPLE / SAMPLE DUPLICATE RECOVERYTPH By SW8015 Mod AnalyteParent Sample Result [A]Sample Duplicate Result [B]RPDControl Limits %RPDC6-C12 Gasoline Range Hydrocarbons<92.7	Reporting Units: %		SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Analyte[B]IPercent Moisture19.120.7820Lab Batch #:859265Date Analyzed:06/08/2011 14:28Date Prepared:06/08/2011Analyst:BEVQC- Sample ID:419095-001 DBatch #:1Matrix:SoilReporting Units:mg/kgSAMPLE / SAMPLE DUPLICATE RECOVERYTPH By SW8015 ModParent Sample Result [A]Sample Duplicate Result [B]Control Limits %RPDFlagC6-C12 Gasoline Range Hydrocarbons<92.7	Percent Moisture		Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Percent Moisture 19.1 20.7 8 20 Lab Batch #: 859265 Date Analyzed: 06/08/2011 Analyst: BEV QC- Sample ID: 419095-001 D Batch #: 1 Matrix: Soil Reporting Units: mg/kg SAMPLE / SAMPLE DUPLICATE RECOVERY TPH By SW8015 Mod Parent Sample Result [A] Sample Duplicate Result [B] RPD Control Limits %RPD Flag C6-C12 Gasoline Range Hydrocarbons <92.7 <92.7 0 35 Flag C12-C28 Diesel Range Hydrocarbons 1390 1360 2 35 F	Analyte			[B]			
Lab Batch #: 859265 Date Analyzed: 06/08/2011 14:28 Date Prepared: 06/08/2011 Analyst: BEV QC- Sample ID: 419095-001 D Batch #: 1 Matrix: Soil Reporting Units: mg/kg SAMPLE / SAMPLE DUPLICATE RECOVERY TPH By SW8015 Mod Parent Sample Result [A] Sample Duplicate Result [B] RPD Control Limits % RPD Flag C6-C12 Gasoline Range Hydrocarbons <92.7 <92.7 0 35 Flag C12-C28 Diesel Range Hydrocarbons 1390 1360 2 35 F	Percent Moisture		19.1	20.7	8	20	
Date Analyzed: 06/08/2011 14:28 Date Prepared: 06/08/2011 Analyst: BEV QC- Sample ID: 419095-001 D Batch #: 1 Matrix: Soil Reporting Units: mg/kg SAMPLE SAMPLE DUPLICATE RECOVERY TPH By SW8015 Mod Parent Sample Result [A] Sample Duplicate Result [B] Sample Duplicate Result [B] RPD Control Limits %RPD Flag C6-C12 Gasoline Range Hydrocarbons <92.7	Lab Batch #: 859265						
QC- Sample ID: 419095-001 DBatch #: 1Matrix: SoilReporting Units: mg/kgSAMPLE / SAMPLEDUPLICATERECOVERYTPH By SW8015 ModParent Sample Result [A]Sample Duplicate Result [B]RPDControl Limits %RPDFlagC6-C12 Gasoline Range Hydrocarbons<92.7	Date Analyzed: 06/08/2011 14:28 Date	e Prepar	ed: 06/08/2011	Ana	yst:BEV		
Reporting Units: mg/kgSAMPLE / SAMPLE DUPLICATE RECOVERYTPH By SW8015 ModParent Sample Result [A]Sample Duplicate Result [B]RPDControl Limits %RPDFlagC6-C12 Gasoline Range Hydrocarbons<92.7	QC- Sample ID: 419095-001 D	Batch	n#: 1	Mat	rix: Soil		
TPH By SW8015 ModParent Sample Result [A]Sample Duplicate Result [B]Control Limits 	Reporting Units: mg/kg		SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
C6-C12 Gasoline Range Hydrocarbons <92.7 <92.7 0 35 C12-C28 Diesel Range Hydrocarbons 1390 1360 2 35 C28-C35 Oil Range Hydrocarbons 163 251 43 35 F	TPH By SW8015 Mod Analyte		Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
C12-C28 Diesel Range Hydrocarbons 1390 1360 2 35 C28-C35 Oil Range Hydrocarbons 163 251 43 35 F	C6-C12 Gasoline Range Hydrocarbons		<92.7	<92.7	0	35	
C28-C35 Oil Range Hydrocarbons 163 251 43 35 F	C12-C28 Diesel Range Hydrocarbons		1390	1360	2	35	
	C28-C35 Oil Range Hydrocarbons		163	251	43	35	F

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



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XENCO Laboratories

Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadelphia Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist Document No.: SYS-SRC Revision/Date: No. 01, 5/27/2010 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Southern Union Gas Client: Date/Time: 06 -08-11 C 0805 Lab 10 #: 419095 JMF Initials:

Sample Receipt Checklist

1. Samples on ice?		Blue	Water	No	CULD
2. Shipping container in good condition?		Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles	3	Yes	No	N/A	astabel
4. Chain of Custody present?		Yes	No		
5. Sample instructions complete on chain of custody?		(Yes)	No		
6. Any missing / extra samples?		Yes	(No)		
7. Chain of custody signed when relinquished / received?		(Yes)	No		
8. Chain of custody agrees with sample label(s)?		(Yes)	No		
9. Container labels legible and intact?		Yes?	No		
10. Sample matrix / properties agree with chain of custody?		Yes	No .		
11. Samples in proper container / bottle?		Yes/	No		
12. Samples properly preserved?		Yes	No	N/A	
13. Sample container intact?		Yes	No		
14. Sufficient sample amount for indicated test(s)?		Yes	No		
15. All samples received within sufficient hold time?		(Yes)	No		
16. Subcontract of sample(s)?		Yes	(No)	N/A	
17. VOC sample have zero head space?		(Yes)	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.		Cooler 4 No).	Cooler 5 No),
Ibs 4.6 °C Ibs °C Ibs	°C	lbs	°C	lbs	°(

Nonconformance Documentation

Contact:	Contacted by:	Date/Time:	-
Regarding:	· · · · · · · · · · · · · · · · · · ·		
Corrective Action Take	en:		

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

Client understands and would like to proceed with analysis ۰.

APPENDIX C:

Excavated Soil Manifest

OCT-29-96 TUE 9:18

SUNDANCE SERVICES INC

FAX NO. 5053942590

TRANSPORTER'S MANIFEST

na Union I

SHIPPING FACILITY NAME & ADDRESS:

MANIFEST# 1

LOCATION OF MATERIAL:

TRANSPORT

DESCRI STE:

RTER: (Driver)

ervices

SUNDANCE SERVICES, INC. PARABO FACILITY P.O. BOX 1737 EUNICE, NM 88231

QUANTITY: vards

Date:

7~1

Signature of Contact:

Date:

Signature of Driver:

Date:

Signature of Representative

7-1-2011

merin

APPENDIX D:

Soil Analyses for June 16, 2011

Analytical Report 420295

for Southern Union Gas Services- Monahans

> Project Manager: Rose Slade Jal #3 Plant GE Sump Removal

20-JUN-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

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

> Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330) Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370) Xenco-Boca Raton (EPA Lab Code: FL01273): Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917) North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

> Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)

Final 1.000



20-JUN-11

Project Manager: **Rose Slade Southern Union Gas Services- Monahans** 1507 W. 15th Street Monahans, TX 79756

Reference: XENCO Report No: **420295** Jal #3 Plant GE Sump Removal Project Address: Jal, NM

Rose Slade:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 420295. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 420295 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

BO TH

Brent Barron, II Odessa Laboratory Manager

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Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America





Sample Cross Reference 420295



Southern Union Gas Services- Monahans, Monahans, TX

Jal #3 Plant GE Sump Removal

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NW @ 12' bgs	S	Jun-16-11 14:00		420295-001
EW @ 12' bgs	S	Jun-16-11 14:05		420295-002
SW @ 12' bgs	S	Jun-16-11 14:10		420295-003
WW @ 12' bgs	S	Jun-16-11 14:15		420295-004
Floor @ 13' bgs	S	Jun-16-11 14:20		420295-005



CASE NARRATIVE

Client Name: Southern Union Gas Services- Monahans Project Name: Jal #3 Plant GE Sump Removal



Project ID: Work Order Number: 420295 Report Date: 20-JUN-11 Date Received: 06/17/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None



Contact: Rose Slade

Project Id:

Certificate of Analysis Summary 420295 Southern Union Gas Services- Monahans, Monahans, TX Project Name: Jal #3 Plant GE Sump Removal



Date Received in Lab: Fri Jun-17-11 09:40 am

roject Location: Jal NM					Report Date:	20-JUN-11	
and a superior and a set					Project Manager:	Brent Barron, II	
	Lab Id:	420295-001	420295-002	420295-003	420295-004	420295-005	
Audicie Doguociad	Field Id:	NW @ 12' bgs	EW @ 12' bgs	SW @ 12' bgs	WW @ 12' bgs	Floor @ 13' bgs	
naisanhau sistinuu	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Jun-16-11 14:00	Jun-16-11 14:05	Jun-16-11 14:10	Jun-16-11 14:15	Jun-16-11 14:20	
Anions by E300	Extracted:						
	Analyzed:	Jun-17-11 14:47	Jun-17-11 14:47	Jun-17-11 14:47	Jun-17-11 14:47	Jun-17-11 14:47	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride	-	87.0 9.72	1440 46.0	1710 44.3	1270 22.7	68.2 8.96	
Percent Moisture	Extracted:						
	Analyzed:	Jun-20-11 15:00	Jun-20-11 15:00	Jun-20-11 15:00	Jun-20-11 15:00	Jun-20-11 15:00	
	Units/RL:	% RL	% RL	% RL	% RL	% RL	
Percent Moisture		13.6 1.00	8.66 1.00	5.21 1.00	7.65 1.00	6.27 1.00	
TPH By SW8015 Mod	Extracted:	Jun-17-11 12:00	Jun-17-11 12:00	Jun-17-11 12:00	Jun-17-11 12:00	Jun-17-11 12:00	
	Analyzed:	Jun-18-11 22:01	Jun-18-11 22:30	Jun-18-11 22:58	Jun-18-11 23:27	Jun-18-11 23:58	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
C6-C12 Gasoline Range Hydrocarbons		ND 17.4	134 81.7	367 78.7	ND 162	156 80.2	
C12-C28 Diesel Range Hydrocarbons		344 17.4	2550 81.7	7100 78.7	1350 162	2850 80.2	
C28-C35 Oil Range Hydrocarbons		38.3 17.4	164 81.7	125 78.7	ND 162	124 80.2	
Total TPH		382 17.4	2850 81.7	7590 78.7	1350 162	3130 80.2	

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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Odessa Laboratory Manager Brent Barron, II

Final 1.000



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- **BRL** Below Reporting Limit.
- **RL** Reporting Limit
- **MDL** Method Detection Limit
- **PQL** Practical Quantitation Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable
- + Outside XENCO's scope of NELAC Accreditation.

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Form 2 - Surrogate Recoveries

Project Name: Jal #3 Plant GE Sump Removal

Vork Orders : 420295	, ,		Project II	D:				
Units: mg/kg	Date Analyzed: 06/18/11 20:33	S Batc	RROGATE R	ECOVERY	STUDY			
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane	Analytes	106	100	106	70.125			
o-Terphenyl		48.6	50.2	97	70-135			
Lab Batab # 860604	Samalar 605509 1 BSD / D	SD Batal	h. 1 Matuin	Solid	10 100			
Units: mg/kg	Date Analyzed: 06/18/11 21:02	SD Bate	RROGATE RI	ECOVERY	STUDY			
ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane	Analytes	105	00.00	105	70-135			
o-Terphenyl		48.5	50.0	97	70-135			
Lab Batab # 860604	Sample: 605508 1 BLV / B	IK Betel	h. 1 Matrix	97 70-135				
Lab Batch #: 000094	Sample: 003508-1-BLK/B	SU	RROGATE RI	COVERV	STUDY			
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane		91.6	100	92	70-135			
o-Terphenyl		52.7	50.2	105	70-135			
Lab Batch #. 860694	Sample: 420295-001 / SMP	Rate	h. 1 Matrix	Soil				
Units: mg/kg	Date Analyzed: 06/18/11 22:01	SU	RROGATE RI	ECOVERY	STUDY			
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane		90.8	100	91	70-135			
o-Terphenyl		51.2	50.2	102	70-135			
Lab Batch #: 860694	Sample: 420295-002 / SMP	Batel	h: 1 Matrix	Soil				
Units: mg/kg	Date Analyzed: 06/18/11 22:30	SU	RROGATE RI	COVERY	STUDY			
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane		90.6	99.5	91	70-135			
o-Terphenyl		52.4	49.8	105	70-135	1		

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / BAll results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Jal #3 Plant GE Sump Removal

Vork Orders : 420295 Lab Batch #: 860694 Units: mg/kg	, Sample: 420295-003 / SMP Date Analyzed: 06/18/11 22:58	Bate	Project I ch: ¹ Matrix JRROGATE R	D: a:Soil	STUDY		
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	-	93.8	99.5	94	70-135		
o-Terphenyl		60.7	49.8	122	70-135	- 95	
Lab Batch #: 860694	Sample: 420295-004 / SMP	Bate	ch: 1 Matrix	:Soil	STUDY		
TPH 1	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane		98.0	99.8	98	70-135		
o-Terphenyl		56.0	49.9	112	70-135		
Lab Batch #: 860694 Units: mg/kg	Sample: 420295-005 / SMP Date Analyzed: 06/18/11 23:58	Bate	ch: ¹ Matrix JRROGATE R	: Soil ECOVERY	STUDY		
TPH I	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane		105	100	105	70-135		
o-Terphenyl		64.5	50.1	129	70-135		
Lab Batch #: 860694 Units: mg/kg	Sample: 420033-003 D / MD Date Analyzed: 06/19/11 08:17	Bato	ch: ¹ Matrix URROGATE R	Soil	STUDY		
ТРН І	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane		106 99.7 106 70-135					
o-Terphenyl		56.8	49.9	114	70-135		

* Surrogate outside of Laboratory QC limits
 ** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



BS / BSD Recoveries



Project Name: Jal #3 Plant GE Sump Removal

Work Order #: 420295 Analyst: LATCOR Lab Batch ID: 860622 Sample: 860622-1-BKS

Date Prepared: 06/17/2011

Batch #: 1

Project ID: Date Analyzed: 06/17/2011 Matrix: Solid

		DI ANI	/ /BI ANK S	DILLE	I ANK C	DIKE NUDI	I JTADI	ECOVE	DVCTID	>	
Units: mg/kg		DEAL					TOTE		ADIC IN	_	
Anions by E300	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[¥]	[B]	Result [C]	%R [D]	[3]	Duplicate Result [F]	%R [G]	%	%R	%RPD	
Chloride	<0.420	10.0	9.72	67	10.0	10.8	108	11	75-125	20	
Analvst: BEV	Dat	te Prenare	d: 06/17/201	1			Date Ar	alyzed: 0	6/18/2011		

Sample: 605508-1-BKS Batch #: 1

Units: mg/kg

Lab Batch ID: 860694

Batch #: 1 Matrix: Solid BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	835	84	666	848	85	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	844	84	666	852	85	1	70-135	35	

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



Form 3 - MS Recoveries



Project Name: Jal #3 Plant GE Sump Removal

Work Order #: 420295 Lab Batch #: 860622 Date Analyzed: 06/17/2011 OC- Sample ID: 420040-004

Project ID:

Date Analyzed: 06/17/2011 Dat	e Prepared: 06/1	7/2011	Α	nalyst: L	ATCOR	
QC- Sample ID: 420040-004 S	Batch #: 1		I	Matrix: So	oil	
Reporting Units: mg/kg	MATE	RIX / MA'	FRIX SPIKE	RECOV	VERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	[B]				
Chloride	14.9	101	136	120	75-125	

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

BRL - Below Reporting Limit



Sample Duplicate Recovery



Project Name: Jal #3 Plant GE Sump Removal

Work Order #: 420295

Lab Batch #: 860622			Project I	D:						
Date Analyzed: 06/17/2011 14:47 Date Prep	ared: 06/17/2011	Ana	lyst:LATC	OR						
QC- Sample ID: 420040-004 D Ba	t ch #: 1	Mat	rix: Soil							
Reporting Units: mg/kg	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY					
Anions by E300	Parent Sample Result	Sample Duplicate Besult	RPD	Control Limits	Flag					
Analyte	[A]	[B]		70KI D						
Chloride	14.9	14.9	0	20						
Lab Batch #: 860694										
Lab Datch #.	Prepared: 06/17/2011 Analyst: BEV									
Date Analyzed: 06/19/2011 08:17 Date Prep	ared: 06/17/2011	Anal	yst:BEV							
Date Analyzed: 06/19/2011 08:17 Date Prep QC- Sample ID: 420033-003 D Ba	ared: 06/17/2011 ch #: 1	Anal Mat	lyst:BEV rix: Soil							
Date Analyzed:06/19/2011 08:17Date PrepQC- Sample ID:420033-003 DBaReporting Units:mg/kg	ared: 06/17/2011 ch #: 1 SAMPLE /	Anal Mat SAMPLE	lyst:BEV rix: Soil DUPLIC	ATE REC	OVERY					
Date Analyzed: 06/19/2011 08:17 Date Prep QC- Sample ID: 420033-003 D Ba Reporting Units: mg/kg TPH By SW8015 Mod	ared: 06/17/2011 ich #: 1 SAMPLE / Parent Sample Result [A]	Ana Mat / SAMPLE Sample Duplicate Result [B]	lyst:BEV rix: Soil DUPLIC RPD	ATE RECO Control Limits %RPD	OVERY Flag					
Date Analyzed: 06/19/2011 08:17 Date Prep QC- Sample ID: 420033-003 D Ba Reporting Units: mg/kg TPH By SW8015 Mod Analyte	ared: 06/17/2011 ich #: 1 SAMPLE / Parent Sample Result [A]	Ana Mat SAMPLE Sample Duplicate Result [B]	lyst: BEV rix: Soil DUPLIC RPD	ATE RECO Control Limits %RPD	OVERY Flag					
Date Analyzed: 06/19/2011 08:17 Date Prep QC- Sample ID: 420033-003 D Ba Reporting Units: mg/kg TPH By SW8015 Mod Analyte C6-C12 Gasoline Range Hydrocarbons	ared: 06/17/2011 ich #: 1 SAMPLE / Parent Sample Result [A] <15.1	Ana Mat / SAMPLE Sample Duplicate Result [B] <15.1	lyst: BEV rix: Soil DUPLIC RPD 0	ATE RECO Control Limits %RPD 35	OVERY Flag					
Date Analyzed: 06/19/2011 08:17 Date Prep QC- Sample ID: 420033-003 D Ba Reporting Units: mg/kg TPH By SW8015 Mod Analyte C6-C12 Gasoline Range Hydrocarbons C12-C28 Diesel Range Hydrocarbons	ared: 06/17/2011 ich #: 1 SAMPLE / Parent Sample Result [A] <15.1 212	Ana Mat / SAMPLE / Sample Duplicate Result [B] <15.1 259	lyst: BEV rix: Soil DUPLIC RPD 0 20	ATE RECO Control Limits %RPD 35 35	OVERY Flag					

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

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

Prelogin / Nonconformance Report - Sample Log-In

Client:	Southern Union Gas		
Date/Time:	6-17-11 9:40		
Lab ID # :	420295		
Initials:	LM		

Sample Receipt Checklist

1. Samples on ice?	Blue	Water)	No	
2. Shipping container in good condition?	Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	(Yes)	No	N/A	
4. Chain of Custody present?	Tes	No		
5. Sample instructions complete on chain of custody?	(Yes)	No		
6. Any missing / extra samples?	Yes	No		
7. Chain of custody signed when relinquished / received?		No		
8. Chain of custody agrees with sample label(s)?		No		
9. Container labels legible and intact?	(Ye)	No		
10. Sample matrix / properties agree with chain of custody?	Yes	No		
11. Samples in proper container / bottle?	Yes	No		
12. Samples properly preserved?	(Yes)	No	N/A	
13. Sample container intact?	(Yes)	No		
14. Sufficient sample amount for indicated test(s)?	Yes	No		
15. All samples received within sufficient hold time?		No		
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	Yes	No	(N/A)	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 N	0.	Cooler 5 No.	
Ibs 3.(g °C Ibs °C Ibs	°C lbs	°(lbs	°C

Nonconformance Documentation

Contact: _____Contacted by: _____Date/Time: ______
Regarding: _____
Corrective Action Taken: ______
Corrective Action Taken: ______
Corrective Action Taken: ______
Contacted by: _____Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.

□ Initial and Backup Temperature confirm out of temperature conditions

□ Client understands and would like to proceed with analysis