Administrative/Environmental Order



## **AE Order Number Banner**

**Report Description** 

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pKJ1605037434

## 1RP - 2721

## **CROSS TIMBERS ENERGY, LLC**

2/19/2016

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

with Rule 116 on back

side of form

Submit 2 Copies to appropriate

District Office in accordance

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

## **Release Notification and Corrective Action**

			<b>OPERA</b>	TOR	Initial Report	🔀 Final Report
Name of Company	Southern Union Ga	s Services, Ltd.	Contact			Rose Slade
Address	801 S. Loop 464, Monaha	ans, TX, 79756	Telephone No.			432-940-5147
Facility Name: True	nk "M" (Meyers) ( <del>RP</del>	-2712)(272)	Facility Type	Natural Gas Pipelin	ie	
		, <b>C</b>				
Surface Owner Kel	lly Meyers	Mineral Owner:			API No 30-025-288	322

## LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
В	31	238	36E					Lea

Latitude N32 15.872'

Longitude W103 11.966'

## NATURE OF RELEASE

Type of Release: Natural Gas, Crude Oil and Produced Water	Volume of Release 10 BBLS	Volume Recovered 0 BBLS
Source of Release: 20" Steel Pipeline (Low Pressure)	Date and Hour of Occurrence	Date and Hour of Discovery
	June 26, 2011- Unknown	June 26, 2011 – 1014 hrs
Was Immediate Notice Given?	If YES, To Whom?	
🛛 Yes 🔲 No 🖾 Not Required	Geoffrey Leking – NMOCD Hobbs	District Office
By Whom? Curt D. Stanely	Date and Hour: June 27, 2011	HOBBS OCD
Was a Watercourse Reached?	If YES, Volume Impacting the Wat	ercourse.
🗌 Yes 🖾 No		
		DEC 1 9 2012
If a Watercourse was Impacted, Describe Fully.*		

### Describe Cause of Problem and Remedial Action Taken:

Failure of a segment of the twenty (20) inch low-pressure steel pipeline resulted in the release of approximately ten (10) Barels of an intervention of crude oil and produced water. The cause of the failure was attributed to internal corrosion. An unknown volume of natural gas was released to the atmosphere. Following discovery of the release, a temporary pipeline clamp was employed to mitigate the release. The release was largely airborne.

Describe Area Affected and Cleanup Action Taken.

An area measuring approximately 250 feet in width and 250 feet in length was affected by this largely airborne release. Delineation and remediation activities will follow NMOCD Guidelines.

On November 7, 2012, affected soil was excavated and approximately 792 cubic yards of impacted soil was transported to Sundance Services, Inc. (NMOCD Permit #01-0003). Based on the analytical results of excavation confirmation sampling and with NMOCD approval, the excavation was backfilled.

### Plcase reference the attached Basin Environmental Services Technologies Remediation Summary and Site Closure Request for details of remedial activities and the site investigation.

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

Signature: Rose	DSe R. Clude e L. Slade	OIL CONSE Approved by District SupervErive	ronmental Specialist
Title: EHS Complia	nce Specialist	Approval Date: 1211212	Expiration Date:
E-mail Address: rose	e.slade@sug.com	Conditions of Approval:	
Date:	Phone: 432-940-5147(cell)		1RP-2721

## Basin Environmental Service Technologies, LLC

3100 Plains Highway P. O. Box 301 Lovington, New Mexico 88260 jwlowry@basinenv.com Office: (575) 396-2378 Fax: (575) 396-1429

Effective Solutions

## **REMEDIATION SUMMARY &**

## SITE CLOSURE REQUEST

## SOUTHERN UNION GAS SERVICES TRUNK "M" (MEYERS) HISTORICAL RELEASE SITE Lea County, New Mexico Unit Letter "B" (NW/NE), Section 31, Township 23 South, Range 37 East Latitude 32° 15.872' North, Longitude 103° 11.966' West NMOCD Reference # 1RP-2721

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

## December 2012

HOBBS OCD

DFC 1 2 2012

RECEIVED

Joel W owry Project Manager

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## **FIGURES**

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## **TABLES**

Table 1 - Concentrations of Benzene, BTEX, TPH & Chloride in Soil

## **APPENDICES**

Appendix A – Photographs

Appendix B – Laboratory Analytical Reports

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Appendix C – Waste Disposal Manifest

Appendix D – Release Notification and Corrective Action (Form C-141)

## **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 "M" (Meyers) Historical Release Site (1RP-2721). The legal description of the release site is Unit Letter "B" (NW/NE), Section 31, Township 23 South, Range 37 East, in Lea County, New Mexico. The geographic coordinates of the release site are 32° 15.872' North latitude and 103° 11.966' West longitude. The property affected by the release is owned by Mr. Kelly Meyers. Please reference Figure 1 for a "Site Location Map".

On June 26, 2011, Southern Union discovered a release had occurred on the Trunk "M" Pipeline. The "Release Notification and Corrective Action Form" (Form C-141) indicated failure of a section of twenty-inch (20") low-pressure pipeline resulted in the release of approximately ten barrels (10 bbls) of crude oil, produced water natural gas mixture. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office on June 27, 2011. The Form C-141 indicated the release was largely airborne, affecting an area measuring two hundred fifty feet (250') by two hundred fifty feet (250'). General photographs of the release site are provided as Appendix A. The Form C-141 is provided as Appendix D.

## 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 Unit Letter B, Section 31, Township 23 South, Range 37 East. An inferred groundwater gradient map utilized by the NMOCD indicated groundwater should be encountered at approximately one hundred and ten feet (110') 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 "M" (Meyers) Historical Release Site has an initial ranking score of zero (0) points. The soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene -10 mg/Kg (ppm)
- Benzene, Toluene, Ethylbenzene and Xylene (BTEX) 50 mg/Kg (ppm)
- Total Petroleum Hydrocarbons (TPH) 5,000 mg/Kg (ppm)

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

## 3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On November 1, 2012, Basin began remediation activites at the historical release site. A photoionization detector (PID) and chloride field test kit was used to field-screen soil samples and help guide the excavation. The excavation floor and sidewalls were advanced until field tests suggested BTEX, TPH and chloride concentrations were less than NMOCD regulatory remediation action levels. Excavated material was stockpiled on-site, pending final disposition.

On November 15, 2012, twelve (12) confirmation soil samples (West Wall #1, West Wall #2, South Wall #1, South Wall #2, East Wall #1, East Wall #2, North Wall #1, North Wall #2, Main Floor North, Main Floor South, R.P. Floor @ 6' and East Floor) were collected from the excavation floor and sidewalls and submitted to Xenco Laboratories, of Odessa, Texas, for determination of TPH and chloride concentrations in accordance with EPA Methods SW 846-8015M and 300.1, respectively. Laboratory analytical results indicated TPH concentrations ranged from less than the appropriate laboratory method detection limit (MDL) for samples South Wall #2, East Wall #1, East Wall #2, North Wall #1, North Wall #2, and East Floor to 1,160 mg/Kg for soil sample Main Floor South. Analytical results indicated chloride concentrations ranged from 4.16 mg/Kg for soil sample East Wall #1 to 376 mg/Kg for soil sample Main Floor South. Based on laboratory analytical results, further delineation would be required in the area represented by soil sample Main Floor South.

Soil samples Main Floor North, Main Floor South and R.P. Floor @ 6' were also analyzed for BTEX constituent concentrations in accordance with EPA Methods SW 846-8021B. Analytical results indicated the concentration of benzene was less than the appropriate laboratory MDL for each of the soil sample submitted. BTEX concentrations ranged from less than the laboratory MDL for soil samples Main Floor North and R.P. Floor @ 6' to 0.00486 mg/Kg for soil sample Main Floor South. Table 1 summarizes the "Concentrations of Benzene, BTEX, TPH & Chloride in Soil". Soil sample locations are depicted in Figure 2, "Site & Sample Location Map". Laboratory analytical reports are provided as Appendix B.

Between November 8 and 27, 2012, approximately seven hundred and ninety-two cubic yards (792 yd<sup>3</sup>) of impacted material was transported to Sundance Serivices, Inc. (NMOCD Permit # 01-0003) for disposal. Copies of disposal manifest are provided as Appendix C.

On November 27, 2012, a delineation trench was advanced in the area represented by soil sample Main Floor South. The delineation trench was advanced from the floor of the existing exacavation an additional two feet (2'). One (1) soil sample (Main Floor South #2) was collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated the chloride concentration of soil sample Main Floor South #2 was 24.4 mg/Kg. Based on laboratory analytical results, it was determined vertical delineation had been achieved in the area represented by soil sample Main Floor South.

Beginning November 29, 2012, upon receiving approval from the NMOCD, the excavation was backfilled with non-impacted material purchased from the landowner. Prior to backfilling, the final dimesions of the excavation were approximately seventy feet (70') in length, sixty-five (65') in width and two and one half (2.5') to six feet (6') in depth. Excavation backfill was compacted in lifts and contoured to match the surrounding topography. The site will be reseeded in accordance with the landowners requests.

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## 4.0 QA/QC PROCEDURES

## 4.1 Soil Sampling

Soil samples were delivered to Xenco Laboratories, of Odessa, 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 300/300.1

## 4.2 **Decontamination of Equipment**

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

## 4.3 Laboratory Protocol

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

## 5.0 SITE CLOSURE REQUEST

Confirmation soil samples collected from floor and sidewalls of the Trunk "M" (Meyers) excavation were analyzed by and NMOCD-approved laboratory. Laboratory analytical results indicated benzene, BTEX, TPH and chloride concentrations were less than NMOCD regulatory remediation action levels in each of the submitted soil samples. 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 "M" (Meyers) Historical Release Site.

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## 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**

Copy 1: Geoffrey Leking New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division (District 1) 1625 French Drive Hobbs, NM 88240 GeoffreyR.Leking@state.nm.us

5

- Copy 2: Rose Slade Southern Union Gas Services 801 S. Loop 464 Monahans, Texas 79756 rose.slade@sug.com
- Copy 3: Basin Environmental Service Technologies, LLC P.O. Box 301 Lovington, New Mexico 88260





TABLE 1

# CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

## SOUTHERN UNION GAS SERVICES TRUNK "M" (MEYERS) HISTORICAL RELEASE SITE LEA COUNTY, NEW MEXICO NMOCD REFERENCE NO: 1RP-2721

					W	ETHOD: EPA	SW 846-8021	IB, 5030			MET	HOD: 8015	W	TOTAL	E 300
	SAMPLE	SAMPLE	SOIL			ЕТНҮС-	M.P	<u>ہ</u>	TOTAL	TOTAL	GRO	DRO	ORO	ТРН	
		DATE	STATUS			BENZENE	XYLENES	XYLENE	XYLENES	BTEX	C <sub>6</sub> -C <sub>12</sub>	C <sub>12</sub> -C <sub>28</sub>	C <sub>28</sub> -C <sub>35</sub>	င-င3	
	(cool)			(Av/Aun)	(By/Biii)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(60,6111)
West Wall #1	1.5'	11/15/2012	In-Situ	-	-	1	-	,		,	46.8	585	21.2	653	13.3
West Wall #2	1.5'	11/15/2012	In-Situ	•		•		•			<15.4	252	<15.4	252	9.76
South Wall #1	1.5'	11/15/2012	In-Situ	-	,		•			,	<16.2	30.4	<16.2	30.4	38.1
South Wall #2	1.5'	11/15/2012	In-Situ	•		1	'	,		•	<18.7	<18.7	<18.7	<18.7	6.35
East Wall #1	'n	11/15/2012	In-Situ	-	-			1		'	<16.2	<16.2	<16.2	<16.2	4.16
East Wall #2	ň	11/15/2012	In-Situ	•		1	1			•	<19.8	<19.8	<19.8	<,19.8	4.37
North Wall #1	1.5'	11/15/2012	In-Situ	-	•		•	1	'	•	<15.8	<15.8	<15.8	<15.8	24.8
North Wall #2	'n	11/15/2012	In-Situ	•			-		-	,	<17.4	<17.4	<17.4	<17.4	7.44
Main Floor North	2.5'	11/15/2012	In-Situ	<0.00108	<0.00216	<0.00108	<0.00216	<0.00108	<0.00216	<0.00216	<16.2	30.4	<16.2	30.4	38.1
Main Floor South	2.5'	11/15/2012	In-Situ	<0.00108	<0.00216	<0.00108	0.00225	0.00261	0.00486	0.00486	103	663	66.1	1,160	376
R.P. Floor @ 6'	9	11/15/2012	In-Situ	<0.00108	<0.00215	<0.00108	<0.00215	<0.00108	<0.00215	<0.00215	<16.1	16.7	<16.1	16.7	108
East Floor	9	11/15/2012	In-Situ	-	-		-	-	-		<16.4	<16.4	<16.4	<16.4	6.02
Main Floor South #2	4.5'	11/27/2012	In-Situ	•	•		-	•	•		•		•	-	24.4
<b>MOCD Regulatory Standa</b>	ırc			10				50						5,000	1,000
- = Not analyzed															

- = Not analyzed.
 \*Denotes field test results, pending laboratory analysis

,



Photograph of the initial release at the Trunk "M" (Meyers) Historical Release Site.



Photograph of the initial release at the Trunk "M" (Meyers) Historical Release Site.



Photograph of excavation activities at the Trunk "M" (Meyers) Historical Release Site.



Photograph of excavation activities at the Trunk "M" (Meyers) Historical Release Site.



Photograph of excavation activities at the Trunk "M" (Meyers) Historical Release Site.



Photograph of backfilling activities at the Trunk "M" (Meyers) Historical Release Site.



Photograph of backfilling activities at the Trunk "M" (Meyers) Historical Release Site.



Photograph of backfilling activities at the Trunk "M" (Meyers) Historical Release Site.

## Analytical Report 452635

for

Southern Union Gas Services- Monahans

**Project Manager: Joel Lowry** 

Trunk "M" (Meyers)

## **RP-2712**

## 28-NOV-12

Collected By: Client





## 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

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

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ00989): Arizona (AZ0758)



28-NOV-12

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

## Reference: XENCO Report No: **452635 Trunk "M" (Meyers)** Project Address: Lea County, NM

## Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 452635. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 452635 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully.

Nicholas Straccione Project Manager

> Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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

Final 1.000



## Sample Cross Reference 452635



## Southern Union Gas Services- Monahans, Monahans, TX

Trunk "M" (Meyers)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
West Wall #1	S	11-15-12 13:00		452635-001
West Wall #2	S	11-15-12 13:10		452635-002
South Wall #1	S	11-15-12 13:20		452635-003
South Wall #2	S	11-15-12 13:30	· · · · · ·	452635-004
East Wall #1	S	11-15-12 13:40		452635-005
East Wall #2	S	11-15-12 13:50		452635-006
North Wall #1	S	11-15-12 14:00		452635-007
North Wall #2	S	11-15-12 14:10		452635-008
Main Floor North	$\mathbf{S}^{+}$	11-15-12 14:20	•	452635-009
Main Floor South	S	11-15-12 14:30		452635-010
R.P. Floor @ 6'	S	11-15-12 14:40		452635-011
East Floor	S	11-15-12 14:50		452635-012

.

## CASE NARRATIVE



Client Name: Southern Union Gas Services- Monahans Project Name: Trunk "M" (Meyers)



Project ID:RP-2712Work Order Number:452635

*Report Date: 28-NOV-12 Date Received: 11/16/2012* 

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None



Project Id: RP-2712 Contact: Joel Lowry

## Certificate of Analysis Summary 452635 Southern Union Gas Services- Monahans, Monahans, TX Project Name: Trunk "M" (Meyers)



Date Received in Lab: Fri Nov-16-12 10:55 am Report Date: 28-NOV-12

Project Location: Lea County, NM						Report Date:	28-NOV-12	
					-	Project Manager:	Nicholas Straccione	
	Lab Id:	452635-001	452635-002	452635-00	3	452635-004	452635-005	452635-006
Auducia Domotod	Field Id:	Wcst Wall #1	Wcst Wall #2	South Wall	#1	South Wall #2	East Wall #1	East Wall #2
naisanhay sistinuv	Depth:							
	Matrix:	TIOS	SOIL	SOIL		SOIL	SOIL	SOIL
	Sampled:	Nov-15-12 13:00	Nov-15-12 13:10	Nov-15-12 13	3:20	Nov-15-12 13:30	Nov-15-12 13:40	Nov-15-12 13:50
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-22-12 02:38	Nov-22-12 02:55	Nov-22-12 03	3:12	Nov-22-12 03:29	Nov-22-12 03:46	Nov-22-12 04:03
SUB: TX104704215	Analyzed:	Nov-22-12 02:38	Nov-22-12 02:55	Nov-22-12 03	3:12	Nov-22-12 03:29	Nov-22-12 03:46	Nov-22-12 04:03
	Units/RL:	mg/kg RI	mg/kg RI	L mg/kg	RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		13.3 1.3	3 9.76 1.1	1 6.35	1.30	4.16 1.17	4.37 1.24	6.69 1.23
Percent Moisture	Extracted:							
	Analyzed:	Nov-19-12 14:55	Nov-19-12 14:55	Nov-19-12 14	1:55	Nov-19-12 14:55	Nov-19-12 14:55	Nov-19-12 14:55
	Units/RL:	% RI	, 8 R	د	RL	% RL	. % RL	% RL
Percent Moisture		17.0 1.0	0 2.96 1.0	00 19.7	1.00	7.60 1.00	24.7 1.00	23.0 1.00
TPH By SW8015 Mod	Extracted:	Nov-19-12 14:00	Nov-19-12 14:00	Nov-19-12 14	00:1	Nov-19-12 14:00	Nov-19-12 14:00	Nov-19-12 14:00
	Analyzed:	Nov-20-12 04:08	Nov-20-12 04:40	Nov-20-12 05	5:12	Nov-20-12 05:44	Nov-20-12 06:16	Nov-20-12 06:47
	Units/RL:	mg/kg RL	mg/kg Rl	L mg/kg	RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C12 Gasoline Range Hydrocarbons		46.8 18.	I ND I5	.4 ND	18.7	ND 16.2	ND 19.8	ND 19.4
C12-C28 Diesel Range Hydrocarbons		585 18.	1 252 15.	A ND	18.7	ND 16.2	ND 19.8	ND 19.4
C28-C35 Oil Range Hydrocarbons		21.2 18.	15. ND 15.	4 ND	18.7	ND 16.2	ND 19.8	ND 19.4
Total TPH		653 18.	1 252 15	.4 ND	18.7	ND 16.2	ND 19.8	ND 19.4

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

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

Nicholas Straccione Project Manager /al

Final 1.000

Page 5 of 21

**XENCO** Laboratorics . Project Id: RP-2712 Contact: Joel Lowry

Certificate of Analysis Summary 452635 Southern Union Gas Services- Monahans, Monahans, TX Project Name: Trunk "M" (Meyers)



Fri Nov-16-12 10:55 am
Date Received in Lab:

Report Date: 28-NOV-12

Project Location: Lea County, NM					Report Date: 2	28-NOV-12	·
		-			Project Manager: ]	Nicholas Straccione	
	Lab Id:	452635-007	452635-008	452635-009	452635-010	452635-011	452635-012
	Field Id:	North Wall #1	North Wall #2	Main Floor North	Main Floor South	R.P. Floor @ 6'	East Floor
Anaiysis kequestea	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
_	Sampled:	Nov-15-12 14:00	Nov-15-12 14:10	Nov-15-12 14:20	Nov-15-12 14:30	Nov-15-12 14:40	Nov-15-12 14:50
BTEX by EPA 8021B	Extracted:			Nov-27-12 10:20	Nov-27-12 10:20	Nov-27-12 10:20	
_	Analyzed:			Nov-27-12 12:40	Nov-27-12 13:47	Nov-27-12 14:04	
	Units/RL:			mg/kg RL	mg/kg RL	mg/kg RL	
Benzene				ND 0.00108	ND 0.00108	· ND 0.00108	
Tolucne				ND 0.00216	ND 0.00216	ND 0.00215	
Ethylbcnzcnc				ND 0.00108	ND 0.00108	ND 0.00108	
m_p-Xylcncs			-	ND 0.00216	0.00225 0.00216	ND 0.00215	
o-Xylene				ND 0.00108	0.00261 0.00108	ND 0.00108	
Total Xylcnes				ND 0.00108	0.00486 0.00108	ND 0.00108	
Total BTEX				ND 0.00108	0.00486 0.00108	ND 0.00108	
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-22-12 04:20	Nov-22-12 05:29	Nov-22-12 05:46	Nov-22-12 06:03	Nov-22-12 06:20	Nov-22±12 06:37
SUB: TX104704215	Analyzed:	Nov-22-12 04:20	Nov-22-12 05:29	Nov-22-12 05:46	Nov-22-12 06:03	Nov-22-12 06:20	Nov-22-12 06:37
:	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		24.8 9.92	7.44 1.13	38.1 1.12	376 1.12	108 1.11	6.02 1.01
Percent Moisture	Extracted:						
	Analyzed:	Nov-19-12 14:55	Nov-19-12 14:55	Nov-19-12 14:55	Nov-16-12 12:15	Nov-19-12 14:55	Nov-19-12 14:55
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		5.12 1.00	14.0 1.00	7.59 1.00	7.81 1.00	7.12 1.00	8.56 1.00
TPH By SW8015 Mod	Extracted:	Nov-19-12 14:00	Nov-19-12 14:00	Nov-19-12 14:00	Nov-16-12 11:10	Nov-19-12 14:00	Nov-19-12 14:00
	Analyzed:	Nov-20-12 07:18	Nov-20-12 08:20	Nov-20-12 08:53	Nov-16-12 12:08	Nov-20-12 09:54	Nov-20-12 10:27
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C12 Gasoline Range Hydrocarbons		ND 15.8	ND 17.4	ND 16.2	103 16.2	ND 16.1	ND 16.4
C12-C28 Diesel Range Hydrocarbons		ND 15.8	ND 17.4	30.4 16.2	993 16.2	16.7 16.1	. ND 16.4
C28-C35 Oil Range Hydrocarbons		ND 15.8	ND 17.4	ND 16.2	66.1 - 16.2 ·	·- ND 16.1	ND 16.4
Total TPH		ND 15.8	ND 17.4	30.4 16.2	1160 16.2	16.7 16.1	ND 16.4

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing. Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Nicholas Straccione Project Manager Nul Ch



## Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

**F** RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit

LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit

**DL** Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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

Final 1.000



Project Name: Trunk "M" (Meyers)

Vork Orders : 452635	, Samala: 452635.010 / SMP	Dotal	Project II	D: RP-2712		
Units: mg/kg	Date Analyzed: 11/16/12 12:08	SUI	RROGATE RE	ECOVERY S	STUDY	
TPH 1	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		95.4	99.8	96	70-135	
o-Terphenyl		53.9	49.9	108	70-135	
Lab Batch #: 901295	Sample: 452635-001 / SMP	Batch	n: 1 Matrix:	Soil		
Units: mg/kg	Date Analyzed: 11/20/12 04:08	SUI	RROGATE RE	ECOVERY	STUDY	
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		90.6	100	91	. 70-135	
o-Terphenyl		50.4	50.1	101	70-135	
Lab Batch #: 901295	Sample: 452635-002 / SMP	Batch	n: 1 Matrix:	Soil		
Units: mg/kg	Date Analyzed: 11/20/12 04:40	SUI	RROGATE RE	COVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		100	99.8	100	70-135	
o-Terphenyl		50.2	49.9	101	70-135	
Lab Batch #: 901295	Sample: 452635-003 / SMP	Batch	n:   Matrix:	Soil	1	
Units: mg/kg	Date Analyzed: 11/20/12 05:12	SUI	RROGATE RE	ECOVERY S	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
1 Chlorestone	Analytes		100			
n-Chlorooctanc		91.5	50.0	92	70.125	
			1	- <sup>71</sup>	/0-155	
Lab Batch #: 901295	Sample: 452635-004 / SMP	Batch	n: I Matrix:	SOIL	STUDV	
Units: mg/kg	Date Analyzed: 11/20/12 05:44		WOUATE KI			
TPH 1	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		89.9	100	90	; 70-135	
o-Terphenyl		45.3	50.0	91	70-135	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

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

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



Project Name: Trunk "M" (Meyers)

Vork Orders : 452635	',		Project II	<b>):</b> RP-2712		
Lab Batch #: 901295	Sample: 452635-005 / SMP	Batch	I: I Matrix:		STUDY	
Units: mg/kg	Date Analyzed:         11/20/12 00:10           By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes		i1	[D]		I
1-Chlorooctane	· · ·	• 90.9	99.6	91	70-135	
o-Terphenyl		45.6	49.8	92	70-135	<u> </u>
Lab Batch #: 901295	Sample: 452635-006 / SMP	Batch	a: <u>1 Matrix</u> :	:Soil		
Units: mg/kg	Date Analyzed: 11/20/12 06:47	SUI	RROGATE RF	COVERY	STUDY	
трн ј	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		91.6	99.7	92	70-135	ı
o-Terphenyl		46.0	49.9	92	70-135	I ,
Lab Batch #: 901295	Sample: 452635-007 / SMP	Batcl	n: 1 Matrix	:Soil		<u></u>
Units: mg/kg	Date Analyzed: 11/20/12 07:18	SUI	RROGATE RF	COVERY S	STUDY	
ТРН Ј	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		99.3	99.8	99	70-135	
o-Terphenyl		49.5	49.9	99	70-135	
Lah Ratch #: 901295	Sample: 452635-008 / SMP	Batcl	. 1 Matrix	•Soil	<u>1</u>	
Units: mg/kg	Date Analyzed: 11/20/12 08:20	SU	RROGATE RF	ECOVERY (	STUDY	
TPH I	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		90.7	100	91	70-135	1
o-Terphenyl		45.3	50.0	91	70-135	I
Lab Batch #: 901295	Sample: 452635-009 / SMP	Batch	h: 1 Matrix	Soil		
Units: mg/kg	Date Analyzed: 11/20/12 08:53	SUI	RROGATE RF	<b>COVERY</b>	STUDY	
ТРН І	By SW8015 Mod Analytes	• Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		88.3	99.6	89	70-135	i
o-Terphenyl		44.5	49.8	89	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 / B All results are based on MDL and validated for QC purposes.

Final 1.000



Project Name: Trunk "M" (Meyers)

Vork Orders : 452635	j,		Project II	<b>):</b> RP-2712		
Lab Batch #: 901295	Sample: 452635-011 / SMP	Batch	REPOCATE RI		STHDY	
Units: mg/kg	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		91.6	99.7	92	70-135	[
o-Terphenyl		46.1	49.9	92	70-135	1
Lab Batch #: 901295	Sample: 452635-012 / SMP	Batch	n:   Matrix	:Soil	<u> </u> _	
Units: mg/kg	Date Analyzed: 11/20/12 10:27	SUF	RROGATE RF	ECOVERY ?	STUDY	
TPH J	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		89.0	99.8	89	70-135	I
o-Tcrphenyl	•	44.3	49.9	89	70-135	[
Lah Batch #: 901633	Sample: 452635-009 / SMP	Batch	h: 1 Matrix	· Soil	·	
Units: mg/kg	Date Analyzed: 11/27/12 12:40	SUF	RROGATE RF	<b>ECOVERY</b> ?	STUDY	
ВТЕУ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.4-Difluorohenzene		0.0281	0.0300	04	<u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u>	<b>├</b> ──
4-Bromofluorobenzene		0.0201	0.0300	91	80-120	<u> </u>
Lah Ratch #: 901633	Sample: 452635-010 / SMP	Batch		· Soil		
Units: mg/kg	Date Analyzed: 11/27/12 13:47	SUI	RROGATE RF	ECOVERY	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.4 Difluorahanzana	Analytes	0.0070	0.0200		80.120	<b> </b>
4-Bromofluorobenzene		0.0278	0.0300	93 85	80-120	
1 -h Datah #. 901633	Sample: 452635-011 / SMP	Batch		- Soil		
Lab Datten $\pi$ . 2010-1	Nate Analyzed: 11/27/12 14:04	SUI	RROGATE RI	ECOVERY !	STUDY	<u></u>
BTE?	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0244	0.0300	81	80-120	ſ
4-Bromofluorobenzene		0.0252	0.0300	84	80-120	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 / B

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

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Project Name: Trunk "M" (Meyers)

Vork Orders : 452635	,		Project II	<b>D:</b> RP-2712		
Lab Batch #: 901052	<b>Sample:</b> 630055-1-BLK / E	BLK Bate	h: 1 Matrix:	Solid	OTLIDA/	
Units: mg/kg	Date Analyzed: 11/16/12 02:25	SU	RROGATE RI	ECOVERY	STUDY	
ТРН І	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		93.1	99.8	93	70-135	
o-Terphenyl	• • • • • • •	46.7	49.9	94	70-135	
Lab Batch #: 901295	Sample: 630190-1-BLK / E	BLK Bate	h: 1 Matrix:	Solid		
Units: mg/kg	Date Analyzed: 11/20/12 01:56	SU	RROGATE RI	ECOVERY	STUDY	
ТРН І	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctanc	•	88.6	99.9	89	70-135	
o-Terphenyl		44.0	50.0	88	70-135	
Lab Batch #: 901633	Sample: 630438-1-BLK / F	BLK Batc	h: 1 Matrix:	Solid	1	
Units: mg/kg	Date Analyzed: 11/27/12 12:57	SU	RROGATE RE	ECOVERY	STUDY	
ВТЕХ	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0252	0.0300	84	80-120	
4-Bromofluorobenzene		0.0243	0.0300	81	80-120	
Lab Batch #: 901052	<b>Sample:</b> 630055-1-BKS / B	BKS Bate	h: 1 Matrix:	: Solid		
Units: mg/kg	Date Analyzed: 11/16/12 01:21	SU	RROGATE RE	COVERY	STUDY	
ТРН І	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes		100	141		
I-Chlorooctanc		92.0	100	92	70-135	
0-Terphenyi		48./	50.1	91	10-155	
Lab Batch #: 901295	Sample: 630190-1-BKS / B	SKS Bate	h: 1 Matrix:	Solid		
Units: mg/kg	Date Analyzed: 11/20/12 00:52	50	RROGATE RI	ECOVERY :	STUDY	r
TPH I	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		93.1	100	93	70-135	
o-Terphenyl		57.2	50.0	114	70-135	
		I				

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

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

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



Project Name: Trunk "M" (Meyers)

ork Orders : 452635	, 	WS Detail	Project I	<b>D:</b> RP-2712		
Lab Batten #: 901033	<b>Sample:</b> 050450-1-5K57 5 Date Analyzed: 11/27/12 11:00	S Batel	RROGATE R	ECOVERY ?	STUDY	
BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.4-Difluorobenzene	· · · · · · · · · · · · · · · · · · ·	0.0286	0.0300	95	80-120	
4-Bromofluorobenzene		0.0256	0.0300	85	80-120	
Lah Batch #: 901052	Samnle: 630055-1-BSD / B	SD Bate	h. 1 Matrix	- Solid	<u> </u> ı	
Units: mg/kg	Date Analvzed: 11/16/12 01:53	SU	RROGATE R	ECOVERY S	STUDY	
TPH 1	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
I-Chlorooctane		90.2	99.9	90	70-135	
o-Terphenyl		49.9	50.0	100	70-135	
Lah Batch #: 901295	Sample: 630190-1-BSD / B	SD Batc	h l Matrix	- Solid	<u>                                     </u>	· · · · ·
Units: mg/kg	Date Analyzed: 11/20/12 01:23	SU	RROGATE R	ECOVERY S	STUDY	
TPH 1	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
L	Analytes			[D]		
1-Chlorooctanc		94.6	100	95	70-135	
o-Terphenyl		55.6	50.1	111-	70-135	
Lab Batch #: 901633	Sample: 630438-1-BSD / B	SD Batc	h: 1 Matrix	:Solid		
Units: mg/kg	Date Analyzed: 11/27/12 11:17	SU	RROGATE R	ECOVERY S	STUDY	
BTEX	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1,4-Difluorobenzene		0.0312	0.0300	104	80-120	
4-Bromofluorobenzene		0.0315	0.0300	105	80-120	
Lab Batch #: 901052	Sample: 452569-001 S / MS	S Batc	h: l Matrix	:Soil		
Units: mg/kg	Date Analyzed: 11/16/12 03:29	SU	RROGATE R	ECOVERY S	STUDY	
ТРН І	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
	Analytes		<u> </u>		50.125	
1-Chlorooctanc		95.8	99.8	96	70-135	
o-rerphenyl		1 30.7	49.9	1 102	1 . / U-133 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 / B

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



Project Name: Trunk "M" (Meyers)

<b>Vork Orders :</b> 452635	, 		Project II	D: RP-2712		
Lab Batch #: 901295	Sample: 432033-002 S7 MS	Bate SU	RROGATE R	ECOVERY	STUDY	
TPH I	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		98.1	100	· 98	70-135	
o-Terphenyl		61.7	50.0	123	70-135	
Lab Batch #: 901633	Sample: 452960-002 S / MS	S Batc	h: <sup>1</sup> Matrix	:Soil		
Units: mg/kg	Date Analyzed: 11/27/12 12:07	· SU	RROGATE R	ECOVERY	STUDY	
BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0288	0.0300	96	80-120	
4-Bromofluorobenzene		0.0281	0.0300	94	.80-120	
Lah Batch #: 901052	Sample: 452569-001 SD / N	ISD Bate	h· 1 Matrix	·Soil	1 1	
Units: mg/kg	Date Analyzed: 11/16/12 04:01	SU	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		87.6	99.8	88	70-135	
o-Terphenyl		53.8	49.9	108	-70-135	
Lab Batch #: 901295	Sample: 452635-002 SD / N	1SD Batc	h: <sup>]</sup> Matrix	:Soil		
Units: mg/kg	Date Analyzed: 11/20/12 14:56	SU	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		89.2	100	89	70-135	
o-Terphenyl		56.7	50.0	113	70-135	
Lab Batch #: 901633	Sample: 452960-002 SD / N	ISD Batc	h: <sup>1</sup> Matrix	:Soil		
Units: mg/kg	Date Analyzed: 11/27/12 13:30	SU	<b>RROGATE R</b>	ECOVERY	STUDY	
BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	-	0.0279	0.0300	93	80-120	
-				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.



## **BS / BSD Recoveries**



AN WELS

## Project Name: Trunk "M" (Meyers)

Work Order #: 452635 Analyst: KEB Lab Batch ID: 901633

Date Prepared: 11/27/2012

Batch #: 1

Sample: 630438-1-BKS

Project ID: RP-2712 Date Analyzed: 11/27/2012 Matrix: Solid

Units: mg/kg		BLAN	K /BLANK S	SPIKE / E	LANK S	PIKE DUPL	ICATE F	RECOVE	CRY STUD	Y	
BTEX by EPA 8021B	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>B</b> ]	[]	[Q]	[E]	Result [F]	[0]				
Benzene	<0.000994	0.0994	0.0851	86	0.0998	0.0918	92	8	70-130	35	
Tolucnc	<0.00199	0.0994	0.0929	93	8660.0	0.0994	100	7	70-130	35	
Ethylbenzene	<0.000994	0.0994	0.0835	84	8660.0	0.0894	06	7	71-129	35	
m_p-Xylcnes	<0.00199	0.199	0.178	. 68	0.200	0.189	56	9	70-135	35	
o-Xylcnc	<0.000994	. 0.0994	0.0874	88	0.0998	0.0893	89	2	71-133	35	
Analyst: JOL	Da	te Prepar	ed: 11/22/201	2			Date Ar	alyzed: 1	1/22/2012	•	
Lab Batch ID: 901455 Sample: 630	315-1-BKS	Batcl	1 #: 1					Matrix: S	olid		
E		DI AN	V /DI ANK C	a / 3/10	T ANK C	DIVE DUBI			DV CTID		

Units: mg/kg		BLAN	K /BLANK S	PIKE / B	LANK S	PIKE DUPL	ICATE	RECOVE	RY STUD	Y	
Inorganic Anions by EPA 300/300.1	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	V	[ <b>B</b> ]	Result [C]	%R [D]	[E]	Duplicate Result [F]	%R [G]	%	%R	%RPD	
Chloride	<1.00	100	106	106	100	106	106	0	80-120	20	

Relative Percent Difference RPD = 200\*(C-F)/(C+F) Blank Spike Recovery [D] = 100\*(C)/[B] Blank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on MDL and Validated for QC Purposes Page 14 of 21

**BS / BSD Recoveries** 



TRA

Project Name: Trunk "M" (Meyers)

Work Order #: 452635 Analyst: KEB

Date Prepared: 11/15/2012

Project ID: RP-2712 Date Analyzed: 11/16/2012 Matrix: Solid

Lab Batch ID: 901052	Sample: 630055-1-B	KS	Batch	1#: 1					Matrix: S	solid		
Units: mg/kg			BLANI	K /BLANK S	PIKE / B	LANK S	PIKE DUPL	ICATE I	RECOVE	ERY STUD	Y	
TPH By SW80	15 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			[ <u>B</u> ]	[C]	[ <u>a</u> ]	E	Result [F]	<u>[</u>				
C6-C12 Gasoline Range Hydroca	arbons	<15.0	1000	924	92	666	952	95	3	70-135	35	
C12-C28 Diesel Range Hydrocar	rbons	<15.0	1000	920	92	666	940	94	2	70-135	35	
Analyst: KEB		Da	te Prepar	ed: 11/19/201	2			Date Ar	alyzed: 1	1/20/2012		
Lab Batch ID: 901295	Sample: 630190-1-B	KS	Batch	1#: ]					Matrix: S	solid		
Units: mg/kg			BLAN	K /BLANK S	PIKE/B	S ANK S	PIKE DUPL	ICATE I	RECOVE	RY STUD	Y	
TPH By SW80	15 Mod	Blank	Spike	Blank	Blank ñ ::	Spike	Blank č ::	Blk. Spk		Control	Control	; ; ;
		Sample Kesult [A]	Added	Spike Result	Spike %R	Added	Spike Duplicate	Dup. %R	КР <u></u> 0 %	Limits %R	Limits %RPD	Flag
Analytes			[B]	[c]	[ <u>a</u> ]	[E]	Result [F]	5				

35 35

70-135

70-135

2 2

95 94

947 936

1000 E

> 5.7 96

965 958

1000 1000

<15.0 <15.0

C6-C12 Gasoline Range Hydrocarbons C12-C28 Diesel Range Hydrocarbons

Analytes

1000

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

Final 1.000

Page 15 of 21



## Form 3 - MS Recoveries



Project Name: Trunk "M" (Meyers)

Work Order #: 452635							
Lab Batch #: 901455				Pr	oject ID:	<b>RP-2712</b>	
Date Analyzed: 11/22/2012	Date Pr	epared: 11/2	2/2012	A	Analyst: JO	DL	
QC- Sample ID: 452635-007 S	]	Batch #: 1		J	Matrix: S	oil	
Reporting Units: mg/kg	· · ·	MATE	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300		Parent Sample Result	Spike Added	Spiked Sample Result	%R [D]	Control Limits %R	Flag
Analytes		[A]	[B]			,	
Chloride		24.8	992	1080	106	80-120	
Lab Batch #: 901455							
Date Analyzed: 11/22/2012	Date Pr	epared: 11/2	2/2012	A	Analyst: J(	DL	
QC- Sample ID: 452638-001 S	l	Batch #: 1		I	Matrix: S	oil	
Reporting Units: mg/kg	Γ	MATE	RIX / MA	TRIX SPIKE	RECO	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		2410	1140	3600	104	80-120	

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

Form 3 - MS / MSD Recoveries



Project Name: Trunk "M" (Meyers)

Work Order #: 452635

Date Analyzed: 11/27/2012 Lab Batch ID: 901633 **Reporting Units:** mg/kg

Matrix: Soil KEB -Batch #: Analyst:

QC- Sample ID: 452960-002 S

Date Prepared: 11/27/2012

Project ID: RP-2712

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample	Snike	Spiked Sample Becult	Spiked	Snike	Duplicate Sniked Sample	Spiked	uaa	Control Limits	Control Limite	Flao
Analytes	Result [A]	Added [B]	ICI .	%R  D	Added [E]	Result [F]	G %	%	%R	%RPD	1
Benzene	<0.00102	0.102	0.0839	82	0.102	0.0914	. 06	6	70-130	35	
Tolucne	<0.00204	0.102	0.0866	85	0.102	0.0972	95	12	70-130	35	
Ethylbenzene	<0,00102	0.102	0.0837	82	0.102	0060.0	88	Ĺ	71-129	35 -	
m_p-Xylenes	<0.00204	0.204	0.176	86	0.204	0.189	93	7	70-135	- 35	
o-Xylenc	<0.00102	0.102	0.0892	87	0.102	0.0915	90	3	71-133	35	
Lab Batch ID: 901052 Date Analyzed: 11/16/2012	QC- Sample ID: Date Prepared:	452569- 11/15/2(	001 S )12	Bai An:	tch #: alyst: F	1 Matrix (EB	c: Soil				

Reporting Units: mg/kg		M	ATRIX SPIKI	E / MATI	RIX SPII	KE DUPLICA	TE RECO	OVERY S	STUDY		
TPH By SW8015 Mod	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD .	Control Limits %R	Control Limits %RPD	Flag
Analytes	[ <b>V</b> ]	[B]		<u>a</u>	9		<u>[</u>				
C6-C12 Gasoline Range Hydrocarbons	<18.6	1240	1200	67	1240	1140	92	5	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<18.6	1240	1200	97 -	1240	1120	90	7	70-135	35	
Lab Batch ID: 901295 Date Analyzed: 11/20/2012	QC- Sample ID: Date Prepared:	452635- 11/19/2(	002 S 312	Bat Ans	tch #: alyst: ]	l Matriy KEB	r: Soil				
Reporting Units: mg/kg		M	ATRIX SPIKI	E / MATI	RIX SPII	KE DUPLICA	TE RECO	<b>DVERY 5</b>	STUDY		
TPH By SW8015 Mod	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag

1160 958 1030 1030 66 66 1020 1270 1030 1030 <15.5 252 C6-C12 Gasoline Range Hydrocarbons C12-C28 Diesel Range Hydrocarbons

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

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

Dup. %R [G]

Sample %R [D]

Spike Added [B]

Sample Result [A]

Analytes

Ξ

35 35

70-135

9 6

93 88

70-135

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

Final 1.000

Page 17 of 21



Work Order #: 452635

## Sample Duplicate Recovery



## Project Name: Trunk "M" (Meyers)

Lab Batch #: 901089 Date Analyzed: 11/16/2012 12:15 QC- Sample ID: 452635-010 D	Date Prepar Batcl	red:11/16/2012	2 Ana Mat	Project I lyst: WRU trix: Soil	<b>D:</b> RP-2712	
Reporting Units: %		SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture		Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		· .	[ <b>B</b> ]			
Percent Moisture		7.81	7.52	4	20	
Lab Batch #: 901253						
Date Analyzed: 11/19/2012 14:55	Date Prepar	ed: 11/19/2012	2 Ana	lyst: WRU		
QC- Sample ID: 452690-001 D	Batch	1#: l	Mat	rix: Soil		
Reporting Units: %		SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture		Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte			[R]			
Percent Moisture		11.5	12.0	4	20	

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

Final 1.000

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Work Order #: 452635

### **XENCO Laboratories**



### Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Date/ Time Received: 11/16/2012 10:55:13 AM

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

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	17.6
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	Νο
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	Yes
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	Yes

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Date:	

Checklist reviewed by:

Date:

Final 1.000

# Analytical Report 453092

for

Southern Union Gas Services- Monahans

**Project Manager: Joel Lowry** 

Trunk "M" Meyers

### **RP-2712**

### 01-DEC-12

Collected By: Client





### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

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

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ00989): Arizona (AZ0758)

Final 1.000





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

Reference: XENCO Report No: **453092 Trunk "M" Meyers** Project Address: Lea County, NM

### Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 453092. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 453092 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. Val C.

Nicholas Straccione Project Manager

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# Sample Cross Reference 453092



### Southern Union Gas Services- Monahans, Monahans, TX

Trunk "M" Meyers

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Main Floor South #2	S	11-27-12 13:00		453092-001

# CASE NARRATIVE



Client Name: Southern Union Gas Services- Monahans Project Name: Trunk "M" Meyers



Project ID:RP-2712Work Order Number:453092

Report Date: 01-DEC-12 Date Received: 11/28/2012

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None

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Project Id: RP-2712 Contact: Joel Lowry

# Certificate of Analysis Summary 453092 Southern Union Gas Services- Monahans, Monahans, TX Project Name: Trunk "M" Meyers



Date Received in Lab: Wed Nov-28-12 12:34 pm Report Date: 01-DEC-12

Project Location: Lea County, NM				Report Date	: 01-DEC-12	
				Project Manager	r: Nicholas Straccione	
	Lab Id:	453092-001				
Auction Documentad	Field Id:	Main Floor South #2				
naisanhay sistinuv	Depth:					
	Matrix:	SOIL				
	Sampled:	Nov-27-12 13:00				
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-30-12 09:01	-			
SUB: TX104704215	Analyzed:	Nov-30-12 09:01				
	Units/RL:	mg/kg RL				
Chloride		24.4 10.6		· · · ·		
Percent Moisture	Extracted:					
:	Analyzed:	Nov-28-12 14:15				
	Units/RL:	% RL				
Percent Moisture		4.03 1.00				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratorics. XENCOL Laboratorics 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 tunless outerwise agreed to it writing. Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Wull .

Nicholas Straccione Project Manager

Page 5 of 11



# **Flagging Criteria**

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

**F** RPD exceeded lab control limits.

J The target analyte was positively identified below the quantiation limit and above the detection limit.

U Analyte was not detected.

- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit

PQL Practical Quantitation Limit MQL Method Quantitation Limit

LOD Limit of Detection

nit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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2505 North Falkenburg Rd, Tampa, FL 33619
12600 West I-20 East, Odessa, TX 79765
6017 Financial Drive, Norcross, GA 30071
3725 E. Atlanta Ave, Phoenix, AZ 85040

hone	Fax
281) 240-4200	(281) 240-4280
214) 902 0300	(214) 351-9139
210) 509-3334	(210) 509-333:
813) 620-2000	(813) 620-2033
432) 563-1800	(432) 563-1713
770) 449-8800	(770) 449-547
502) 437-0330	

Final 1.000

**BS / BSD Recoveries** 



# Project Name: Trunk "M" Meyers

Work Order #: 453092 Lab Batch ID: 901914 Analyst: JOL

Sample: 630583-1-BKS

Date Prepared: 11/30/2012 Batch #: 1

Project ID: RP-2712 Date Analyzed: 11/30/2012 Matrix: Solid

Units: mg/kg		BLAN	K /BLANK S	PIKE / B	LANK S	PIKE DUPL	ICATE F	RECOVE	RY STUD	Y	
norganic Anions by EPA 300/300.1	Blank Sample Result	Spike Added	Blank Spike Decute	Blank - Spike •2.D	Spike Added	Blank Spike Dunlicato	Blk. Spk Dup. %D	RPD */	Control Limits %D	Control Limits % DDD	
Analytes	C	[ <b>B</b> ]			[E]	Result [F]	(C)	0	N0/		

Flag

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80-120

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108

541

500

101

504

500

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Chloride

i.

Rclativc 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

1. 1

Page 7 of 11



## Form 3 - MS Recoveries



### Project Name: Trunk "M" Meyers

#### Work Order #: 453092 Project ID: RP-2712 Lab Batch #: 901914 Date Prepared: 11/30/2012 Analyst: JOL Date Analyzed: 11/30/2012 OC- Sample ID: 453092-001 S Batch #: 1 Matrix: Soil Reporting Units: mg/kg MATRIX / MATRIX SPIKE RECOVERY STUDY Parent Spiked Sample Control **Inorganic Anions by EPA 300** Sample Spike Result %R Limits Flag Result Added [D] %R [**C**] [A] [B] Analytes Chloride 24.4 1060 1070 99 80-120 Lab Batch #: 901914 Date Prepared: 11/30/2012 Date Analyzed: 11/30/2012 Analyst: JOL QC- Sample ID: 453149-001 S Batch #: 1 Matrix: Soil Reporting Units: mg/kg MATRIX / MATRIX SPIKE RECOVERY STUDY Parent **Inorganic Anions by EPA 300** Spiked Sample Control Sample Flag Spike %R Limits Result Result Added [C] [D] %R [A] [**B**] Analytes Chloride 112 4950 5090 101 80-120

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

**BRL** - Below Reporting Limit



# Sample Duplicate Recovery



### Project Name: Trunk "M" Meyers

Lab Batch #: 901744	Project ID: RP-2712							
Date Analyzed: 11/28/2012 14:15	Date Prepared: 11/28/2012 Analyst: WRU							
QC- Sample ID: 453110-001 D	Batch	n#: 1	Mat	rix: Soil				
Reporting Units: %		SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY		
Percent Moisture		Parent Sample Result	Sample Duplicate Result	RPD.	Control Limits %RPD	Flag		
Analyte		[0]	[ <b>B</b> ]		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Percent Moisture		14.8	14.7	1	20			

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

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### **XENCO** Laboratories



### Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Date/ Time Received: 11/28/2012 12:34:00 PM

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

Work Order #: 453092

Temperature Measuring device used :

Sample Receipt Checklis	t Comments
#1 *Temperature of cooler(s)?	12
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	Νο
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
*#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	Yes
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	Yes

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Date:

Checklist reviewed by:

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ICES, Inc. TICK	77 11/2/2/5 21/11/2/2000	YPE OF MATERIAL	(1) Drilling Fluids [1) (1) Contaminated Soil [1] [1] BS&W Content: [1]	0		5. INC:S ACCEPTANCE OF THE MATERIU DU WARRANTS THAT THE WASTE MATE VSERVATION AND RECOVERY ACT OF 19 VAIRA AND SAF. CODE 5 361.001 et seq. 1 ORDED DRILLING FLUIDS, PRODUCED1 LOPMENT OR PRODUCTION OF CRUD	ICES, INC'S ACCEPTANCE OF THE MATER D WARRANTS THAT ONLY THE 1 DW DELIVERED BY TRANSPORTER TO 2	ter loaded the material represented by this ered by the above described shipper. This material was delivered without incident,	1 SIA ( 711 3	P. ADYERTISHG. 4.12:586-5401 - www.PromoSupermarke
SUNDANCE SERV R0.Box 1737 Eurice, New Me (575) 394-2511	ATONISHIPPERCOMPANY: 5/1/ TLUD K M 1 ER COMPANY: DD 5/11 A C1-12 VEHICLENO: 9		( ) Production Water ( ) Tank Bottoms ( ) Solids Cription: ( )		MATERIAL [ ] BBLS.	CONDITION TO SUNDANCE SERVICE OPERATORYSHIPPER REPRESENTS AN AL EXEMPT FROM THE RESOURCE, COI A DUS.C. 56001, et sea, THE NM HE, 0, 8M VIRTUE OF THE EXEMPTION AFF AFED WITH THE EXPLORATION, DEVE SEMAL ENERGY.	AS A CONDITION TO SUNDANCE SERV TRANSPORTER REPRESENTS AN OR/SHIPPER TO TRANSPORTER IS NO F FOR DISPOSAL	ILL CERTIFY that the above Transpor escribed location, and that it was tends is were added to this load, and that the	TY REPRESENTATIVE:	Are arear from. 10/14.1Y SHAR
	LEASE OPERA LEASE NAME TRANSPORTE DATE://			RRC or API #	VOLUME OF	AS A TICKET J MATERIA TO TIME. TO TIME. THERETC ASSOCHE	ALSO ALSO ALSO ALSO A	THIS W above de above de material		

S, Inc. 110KET No. 226147	1) CUET TIME 2,10 AMPRIN 11/101 GARADOR COMME C. 5701(Leij MASTANGE	DF MATERIAL Defining Fluids [1] Rimsate Contaminated Soil [1] Jet Out BS&W Content: [1] Call Out C-1339 C-1339	S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB BANTS THAT DE WOSTE MATERIALS SHIPPED HERMITH IS TION AND RECOVERY ACT OF 1976, AS AMENUED FROM THA IND SAF. CODE 5 361 001 e1 seq. AND REGULATIONS RELATED ORULING FLUDS, PRODUCED WATER, AND OTHER WASTE SIT OF PRODUCTION OF CRUDE OIL OR NATURAL GAS OR CS ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB RRANTS THAT ONLY THE MATERIAL DELIVERED BY UNDERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S REANTS THAT ONLY THE MATERIAL DELIVERED BY UNDERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S REANTS THAT ONLY THE MATERIAL DELIVERED BY UNDERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S BRANTS THAT ONLY THE MATERIAL DELIVERED BY UNDERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S BRANTS THAT ONLY THE MATERIAL DELIVERED BY UNDERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S BRANTS THAT ONLY THE MATERIAL DELIVERED BY UNDERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S BRANTS THAT ONLY THE THAT THAT THAT THAT AND ADDITIONAL SUNDANCE ACCI & 1 DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S SURVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S BRANTS THAT ONLY THE THAT THAT AND ADDITIONAL SUNDANCE ACCI & 1 DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S SURVER ACCI & 1 DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S SURVER ACCI & 1 DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S SURVER ACCI & 1 DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S SURVER ACCI & 1 DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S SURVER ACCI & 1 DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S SURVER ACCI & 1 DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S SURVER ACCI & 1 DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S SURVER ACCI & 1 DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S SURVER ACCI & 1 DELIVERED BY TRANSPORTER TO SUNDANCE SURVER ACCI & 1 DELIVERED BY TRANSPORTER TO SURVER TO SURVER ACCI & 1 DELIVERED BY TRANSPORTER TO SURVER ACCI & 1 DELIVERED BY TRANSPORTER TO SURVER ACCI & 1 DELIVERED BY TRANSPORTER TO SURVER ACCI & 1 DELIVERED BY TRANSPORT
	LEASE OPERATON/SHIPPER/COMPANY: S/ LEASE NAME: 1) LI II K '' M' TRANSPORTER COMPANY: 7 M ) L II DATE / I - 4 - 7 2 VEHICLE NO: 9 CUARGE TO: 5 ( 1 7-5	T T T T T T T T T T T T T T T T T T T	AS A CONDITION TO SUNDANCE SERVICES ITCKET, OPERATORNIHER REPRESENTS ANI MATERIAL EXEMPT FROM THE REPRESENTS ANI MATERIAL EXEMPTION THE REPRESENTS ANI TOTIME, 40 U.S.C. 9 5091, et sec., THE NM HEA TOTIME, 40 U.S.C. 9 5091, et sec., THE NM HEA ASSOCIATED WITH THE EXPLORATION, DEVEL ASSOCIATED WITH THE EXPLORATION, DEVEL ASSOCIATED WITH THE EXPLORATION, DEVEL ASSOCIATED WITH THE EXPLORATION, DEVEL ASSOCIATED WITH FERRICS ASSOCIATED WITH THE EXPLORATION, DEVEL ALSO AS A CONDITION TO SUNDANCE SERVI TALET. TRANSPORTER IN EXPLORATION, DEVEL ALSO AS A CONDITION TO SUNDANCE SERVIC ALSO AS A CONDITION TO SUNDANCE SERVIC ASSOCIATED WITH EXPLORATION, DEVEL ALSO AS A CONDITION TO SUNDANCE SERVIC TALITY FOR DISPOSAL. THIS WILL CERTIFY that the above framyoute above described location, and that it was tended to this load, and that it was tender to the social of this load, and that the DRIVER. While - Sundance Can ADSOCIATED ASSOCIATIONAL SAURANTINE. ADDALACE TO ASSOCIATIONAL SAURANTINE CAN ADDALACE TO ASSOCIATIONAL SAURANTINE CAN ADDALACE TO ASSOCIAL CONTRACTIONAL SAURANTINE CAN ADDALACE TO ASSOCIAL CAN ASSOCIAL CONTRACTIONAL SAURANTINE CAN ADDALACE TO ASSOCIAL CAN ASSOCIAL CAN ASSOCIAL CAN ADDALACE TALE TO ASSOCIAL CAN ASSOCIA

TIME /: 3 & AMIPIN) an an southful AS A CONDITION TO SUNDANCE SERVICES, INCS ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB STACET, OPERATORSYMPTER REPRESENTS AND WARRANST STIM. THE WASTE MATERIAL, SHIPPED HERWITH IS MATERIAL EXERPTEROM THE RESCURSE, CONSERVATION AND RECOVERY ACT OF 1976, AS ANENDED FORM THIS TO TIME, ao U.S.C. 5 6901, et seq., THE NM HEALTH AND SAF, CODE 5 541, DOI 1997, BA ANENDED FORM THIS TO TIME, ao U.S.C. 5 6901, et seq., THE NM HEALTH AND SAF, CODE 5 541, DOI 1997, BA AND OTHER WASTE AND THE AD USC. 5 6901, et seq., THE NM HEALTH AND SAF, CODE 5 541, DOI 1997, BA AND OTHER WASTE THERTO, BY WITH DE OTHER EXEMPTION AFFORDED DRILLING FULLOS, PRODUCED WATERS, AND OTHER WASTE AND THIS TO THE ADDARTOR. DEVELOPMENT OR PRODUCTION OF CHURCH ON AND THE FISCISCO COMMENT A TILE ALSO AS A CONDITION TO SUNDANCE SERVICES, INC'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATORASIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S FACULTY FOR DISPOSAL TICKET No.2 226573 THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this tood, and that the material was defivered without incident. 1 Pink - Transporter I Jet Out [ ] Call Out [ ] Rinsate C-133# market com RIC NAME AND NUMBER 17 Re-coder from: TOTALLY SHARP ADVERTISING - 432-586-5401 - www.PromoSu Canary - Sundance Acct #1 ALLA ( ) Drilling Fluids XX YARD\_ **TYPE OF MATERIAL** ALLIEL S I BS&W Content: SUNDANCE SERVICES, Inc. PD B02 1737 Eurice, New Mexico 88231 Sla P.O. Box 1737 Eunkee, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: 5/1/5 410 VEHICLE NO: 9 Q FACILITY REPRESENTATIVE: [ ] Production Water 51167 [ ]. Tank Bottoms White - Sundance VOLUME OF MATERIAL [ ] BBLS. DRIVER: 11 Store 1 Solids GEOTHERMAL ENERGY. TRANSPORTER COMPANY: DATE: 11-13-12 Description: CHARGE TO: **RRC or API #** 

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ICES, Inc. TICKET No. <sup>3</sup> 226548	546 11" Dhyry 5 TIMEL: 400000	BECHWERE AND THE LETT	YPE OF MATERIAL 1   Drilling Fluids 1   Contaminated Soll 1   BS&W Content: 1   BS&W Content: 1   Call Out	стазя : Хихаар (1	SI NCS ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB DU WARRANTS THAT THE WASTE MATERIAL SHIPPED HERWITH IS USERVITION AND RECOVERY ACT OF 1976, AS AMENED FROM TIME ALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED ORDED DRILING FLUIDS, PRODUCED WATERS, AND OTHER WASTE LOPMENT OF PRODUCTION OF CRUDE OIL OR MATURAL GAS OR	KES, INCS ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB D. WARRANTS. THAT. ONLY. THE MATERIAL. DELIVERED BY DW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INCS	er looded the material represented by this Transporter Statement at the eved by the above described shipper. This will certify that no additional material was delivered without incident	1. An MULLY Mary - Sundance Acci #1 Pink - Transporter
PO BOX POLICE SERV	LEASE OPERATOR/SHIPPEN/COMPANY: LEASE NAME: 7, 11, 11, 1, 11 TRANSPORTER COMPANY: 13, 23, 24, 12 DATE, 11, 22, 77, VEHICLENC:	CHARGE TO: 5/1/2	1 Production Water     1 Tank Bottoms     1 Solids     1 Solids     Description: Description	RRC or API # VOLUME OF MATERIAL { ] BBLS.	AS A CONDITION TO SUNDANCE SERVI TICKET, OPERATORYSHIPPER REPRESENTS I MATERIAL EXEMPT FROM THE RESOLREG. C TO TIME, 40 U.S.C. 5 6901, et seq., THE NM H THERRO, DV VITTULE OF THE EXEMPTION A ASSOCIATED WITH THE EXPLORATION, DF GEOTHERMAL ENERGY.	ALSO AS A CONDITION TO SUNDANCESEF TICKET. TRANSPONTER REPRESENTS A OPERATOR/SHIPPER TO TRANSPORTER IS FACILITY FOR DISPOSAL.	THIS WILL CERTIFY that the above Transpo above described location, and that it was ten materials were added to this lood, and that th	DRIVER. Coourtery A.

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LEASE OPERATOR/SHIPPER/COMPANY: 5117	
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DATE//-/3-/2 VEHICLE NO: 9	GENERATOR CONFINING (1 , 5/27 A. 15 C
CHARGE TO: 5 11 (2-	REG NAME AND MUMBER
TYPE OF MAT	ERIAL
[ ] Production Water [ ], Drilling	luids [ ] Rinsate
· [ ] Tank Bottoms	nated Soil   Jet Out
Description: L // )	intent: [ ] Call Out
RRC or API #	C-133#
VOLUME OF MATERIAL [] BBLS.	J YARD / Z 1
AS A CONDITION TO SUNDANCE SERVICE, INC'S ACCEPT TICKET, OPERATORISHIPPER REPRESENTS AND WARRANTS T MATERIAL EXEMPT FROM THE RESOURCE CONSERVITION AND TO TIME, GOLS C, 6600, is ease, THE IN HACTITA NUD SAF.C THERETO, 8Y VIRTUE OF THE EXEMPTION AFFORDED DBILLIN ASSOCIATED WITH HE EXPLORATION, DEVELOPMENT OR P GEOTHERMAL ENERGY	ANCE OF THE MATERIALS SHIPPED WITH THIS JOB 447 THE WASTE MATERIAL SHIPPED WERWITH IS IRECOVERY ACT OF 1976, AS AMENDED FROM TIME RECOVERY ACT OF 1976, AS AMENDED FROM TIME 5 BLUDS, PRODUCED WATERS, AND ONE WASTE FULDS. TRODUCED WATERS, AND ONE WASTE CODUCTION OF CRUDE OIL OR MATURAL GAS OR
ALSO AS A CONDITION TO SUNDANCE SERVICES, INC'S ACCE TICKET. TRANSPORTER REPRESENTS AND WARRANTS OPERATORASHIPPER TO TRANSPORTER IS NOW DELIVERED FACULTY FOR DISPOSAL.	PTANCE OF THE MATERIALS SHIPPED WITH THIS JOB THAT ONLY THE MATERIAL DELIVERED BY BY TRANSPORTER TO SUNDANCE SERVICES, INC.S
THIS WILL CERTIFY that the obove Transporter loaded the ma above described location, and that it was tendered by the above materials were added to this load, and that the material was deli	erial represented by this Transporter Statement at the described shipper. This will certify that no additional rered without incident:
DRIVER. Constraint for Academic Academi	211
ریونستایین White - Sundance Canary - Sundance	Acct #1 Pink - Transporter
re-order from: TOTALLY SHARP ADVERTISING - 432-58	5-5401 - www.PromoSupermarket.com

et No. 2 265	TIME/: 36.			J htmsate J Jet Out J Call Out		-133#	. []	LS SHIPPED WITH THI LS SHIPPED WITH THI AS AMENDED FROM 6, AS AMENDED FROM WILERS, AND OTHER W MITERS, AND OTHER W	als shipped with thi Aaterial delivered Undance services,	Transporter Statement will certify that no addi	Transporter com
Inc.	P S GERRATOR COMPA	RIG NAME AND NUMBER	MATERIAL	ling Fluids Lind Ataminated Soil [ &W Content: [		Ċ	X1 YARD 12	CEPTANCE OF THE MATERIA TITS THAT THE WASTE MATER VAND RECOVERY ACT OF 195 AFL CODE § 361001 et 994, A LILING FLUIDS, PRODUCED W DR PRODUCTION OF CRUDE	ACCEPTANCE OF THE MATER! 415 THAT ONLY THE W RED BY TRANSPORTER TO SI	e material represented by this tbove described shipper. This v ş delivered without incident	22.4 J Jance Acci #1 Pink
SERVICES, Signal-2511	NI - 11/4-1 11/1 - 11/4-1 ENO: 8		TYPE OF A		61D		· · · · · · · · · · · · · · · · · · ·	ANCE SERVICES, INC:S AC EPRESENTS AND WARRAN EPRESENTS AND WARRAN CONSERVATION CESOLICE, CONSERVATION CESOLICE, CONSERVATION CEMPTION AFFORDED DRI RATION, DEVELOPMENT C	NDANCE SERVICES, INC'S / RESENTS AND WARRAN SPORTER IS NOW DELIVER	bove Transporter loaded th hat it was tendered by the a d, and that the material way	Sowing Sowing e Canary - Sund from totary sund
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	LEASE OPEI LEASE NAM TRANSPOR DATE: //-	CHARGE TO		0	ð	RRC or API	VOLUME OI	AS MATER TOTIM THERE ASSOC	ALSC TICKET OPERA FACIUTI	THIS L	

	SUNDANCE SERVICES, Inc.         ПСКЕТ No.:         226507           PO. BOL 1737 Euroce New Marcia 88231         ПСКЕТ No.:         226507           Inc.         10. BOL 1737 Euroce New Marcia 88231         ПСКЕТ No.:         226507           Inc.         10. BOL 1737 Euroce New Marcia 88231         ПСКЕТ No.:         226507           Inc.         10. Inc.         52/75         ПСКЕТ No.:         226507           Inc.         11. Inc.         11. Inc.         11. Inc.         11. Inc.           DATE:         11. Inc.         0. Bol 11. Inc.         0. Bol 11. Inc.         0. Bol 11. Inc.           DATE:         11. Inc.         0. Bol 11. Inc.         0. Bol 11. Inc.         0. Bol 11. Inc.         0. Bol 11. Inc.	CHARGE TO: 5, 2, 1, 5, 1, 2, 2, 1, 5, 2, 2, 2, 4, 2, 2, 2, 4, 2, 2, 2, 4, 2, 2, 2, 4, 2, 2, 2, 2, 4, 2, 2, 2, 4, 2, 4, 2, 4, 2, 4, 2, 4, 2, 4, 2, 4, 2, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	VOLUME OF MATERIAL [ ] BBLS. VARD 21 YARD 21 Y	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT OULY THE MATERIAL DELIVERED BY OPERANDENDERATION TO RANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S FACLUTY FOR DISFOSAL. THIS WILL CERTIFY that the above fransporter loaded the material represented by this franzporter Statement at the above described location, and that the material was delivered without incident. DRIVER. The above fransporter loaded the material represented by this franzporter Statement at the above described location, and that the material was delivered without incident. DRIVER. The section of that the material was delivered without incident. Material was constant. Mrite - Sundance Canary - Sundance Acct at Canary - Sundance Ac
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SUNDANCE SERVICES, Inc. P. Bol 173 Lans, Meeta 08231 (5)318-5311 S13318-5311 S13318-5311 S13318-5311 S1318-5311 S1318-5311 S111/1 (1 ) 1 (1 ) 1 (1 ) 1 (1 ) 1 (1 ) 1 (1 ) 1 (1 ) 1 (1 ) 1 )
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	Inc. New Medice 88331         IICKET No. 3         226557           S1304-3511         IICKET No. 3         226557           S1304-3511         IICKET No. 3         226557           No. 5         II.1         III.1         III.1           No. 8         III.1         III.1         III.1           No. 9         III.1         III.1         III.1           No. 9         III.1         III.1         III.1           No. 9         III.1 <td< th=""></td<>
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TIME 12:12 AMIPM As a condition to sundance services, incl:s acceptance of the materials shipped with this job ticket, operators/shipper represents and warants that the waster material. Shipped network is material, exempt from the resource, conservation and recover act of 1978, As amende from time to Time, aug. The sea, the time health and smit code is as, and recourd from time there or writtle of the exemption areorded during relating strated associated writt the experimon areorded during relating and there or writtle of the exemption development or production of relude oil or nutural, GAS or GEOTHARD, ENERGY JAn .. Carl ALSO AS A CONDITION TO SUNDANCE SERVICES, INC'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB THERET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY DECRATORASHPERT TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S FACULTY FOR DISPOSAL THIS WILL CERTIFY that the above itransporter loaded the material represented by this frampouter Statement of the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this (hot, and that the mpterial was delivered without incident. TICKET No. 3 226672 \_ ( ) Pink - Transporter [ ] Jet Out [] Call Out [ ] Rinsate -C-133# Re-order from: TOTALLY SWARP ADVERTISING - 432-586-5401 - www.PromaSupermarket.com ... GENERATOR COMPANY MAN'S HAME: RIG NAME AND NUMBER 1.11.2. KI VARD 12 LEASE NAME TI LUNK WINGES [ ] Drilling Fluids Canary - Sundance Acct #1 **TYPE OF MATERIAL** [ ] BS&W Content: Enina. SUNDANCE SERVICES, Inc. 1. 5la P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: S(IG)U D 1 DATE: 11-141-12 VEHICLENO: 9 FACILITY REPRESENTATIVE: [ ] Production Water [ ] Tank Bottoms White · Sundance 5113 VOLUME OF MATERIAL | ) BBLS. N [ ] Solids DRIVER: OCMUNU / Description: CHARGE TO: RRC or API #

the sector and the se	FACILITY REPRESENTATIVE: ) , ) (/ ( _/_ ( _/_ ( _/_ // _/ // _/ _/ // _/ _/ _/ _/ _/ _/	Accurate A. Sta CLLL	DRIVER. 1/ 6 ARAM		dbove described location, and that it was tendered by the above described shipper. This will certify that no additional المعادين عنه المعادين ا	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the	FACILITY FOR DISPOSAL.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INCS ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S	GEOTHERMAL ENERGY.	THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE	TO TIME, 40 U.S.C. 5 6901, et seq., THE NM HEALTH AND SAF. CODE 5 361,001 et seq., AND REGULATIONS RELATED	FLARE, OPENATUROSTIFERE REPRESENTS AREU WARRANDS INMUTINE WASTE MATERIAL STREPTED INFERUMENTS	AS A CONDITION TO SUNDANCE SERVICES, INCS ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB THYEYT ODEARTOACHIDDED DEDDECEMENTS AND WARDEMENT THAT THE WARTERIAL SHIPDED HERDINGHED REDDECEMENT OF	LUME OF MATERIAL [ ] BBLS. : [ ] YARD 22 : [ ]	CorAP14 C-133#	Description: Ú D	[ ] Solids [ ] BS&W Content: [ ] Call Out	[ ] Tank Bottoms JKJ Contaminated Soit [ ] Jet Out	[ ] Production Water [ ] Drilling Fluids [ ] Rinsate	TYPE OF MATERIAL		11.11.11.12 VEHICLE NUT: $q$ demonstration (1, 242) (2.1)	INSPORTER COMPANY: POR 5111 21117 . IIME/ 45 AMUPMI	AF NAME: // 1/1/1/ ///////////////////////////	se operatorishipper/company: $\mathcal{SUG}$	PO BOX 1737 EMMAR New MENKO 88331 TICKET No.2 226 048	SUNDANCE SERVICES, Inc. "WITH 2 276688	DRSsimperforcomments:     DRSsimperforcomments:     DRSsimperforcomments:     DRSsimperforcomments:     DRSsimperforcomments:     DRSsimperforcements:     DRSsimperforcements:     DRSsimperforcements:     DRSsimperforcements:     DRSsimmerforcements:     DRSsimmerforcement
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TICKET No: 3 226644		TIME9:41 GANPM	MUNSHIME ( . Strink C	UMAE		[ ] Rinsate	[ ] Call Out		C-133#		MATERALS SHIPPED WITH THIS JOB TE MATERAL SHIPPED WITH THIS JOB TE MATERAL SHIPPED HEREWITH IS TOF 1976, AS AMENDED FROM TIME exec. AND REGULTIONS RELATED DUCCED WATERS, AND OTHER WASTE F CRUDE OUL OR NATURAL GAS OR	E MATERIALS SHIPPED WITH THIS JOB THE MATERIAL DELIVERED BY TER TO SUNDANCE SERVICES, INC:S	ed by this Transporter Statement at the per. This will certify that no additional notdent.	X	Critics italippoiter Segementation
VICES, Inc.	iu G	Milers	5	20	TYPE OF MATERIAL	[ ] Drilling Fluids	[ ] BS&W Content:	al		<u>: Хі чар 7.</u>	WICES, INCES ACCEPTANCE OF THE S AND WARRANTS THAT THE WAS CONSERVATION AND RECOVERY AS HIFAITH AND S.AF. CODE 5 30. 301 A AFORED DRILLING FUUDS, PRO DEVELOPMENT OR PRODUCTION C	services, inc.'s acceptance of th and warrant's that only is now delivered by transpor	sporter loaded the material represent tendered by the above described shi t the material wa <u>s deliver</u> ed without t	1. 5/0 Cru	Callel - 201104115 - 412-586 5401 - www.Prom
IUNDANCE: SER POL BOX 1737 EURICE, New 70, BOX 1737 EURICE, New 703 94-25	ator/shipper/company: 5	ERCOMPANY, BASIN	4-12 VEHICLE NO:	5116		Production Water	[ ] Solids	cription:		MATERIAL [ ] BBLS.	CONDITION TO SUNDANCE SER OPERATORSHIPPER REPRESENT AL EXEMPT FROM THE RESOURCE 4 OLUSC 5 6901, et sea, THE MN 5, BY VITULE OF THE EXEMPTION, AFTED WITH THE EXPLORATION, ERMAL ENERGY.	AS A CONDITION TO SUNDANCE TRANSPORTER REPRESENTS OR/SHIPPER TO TRANSPORTER I Y FOR DISPOSAL.	ILL CERTIFY that the above lran escribed location, and that it was severe added to this load, and tha severe added to this load.	TY REPRESENTATIVE	Writte - SUffoance Re ender frans TOTALI
. <b>  s</b>	LEASE OPER	LEASE NAME TRANSPORTE	DATE: //. /	CHARGE TO:		(	$\sum$	Desc	RRC or API #	VOLUME OF	AS A TICKET, MATERIA MATERIA TO TIME THERETIC ASSOCIA	ALSO, TICKET, OPERATI FACILITI	THIS W above d materia		

 ET No.3 226645	TIME 7:1/2 (AWPM	m / Stan Lard.	) Rinsare J Jerour J Call Out	-133#	LS SHIPPED WITH THIS JOB RAL SHIPPED WITH THIS JOB RAL SHIPPED FROM THIS 6, AS AMENDED FROM THIS 6, AS AMENDED FROM THIS WA PRESLUCTIONS RELATED MATERS, AND OTHER WASTE OLL OR NATURAL GAS OR	ALS SHIPPED WITH THIS JOB AATERIAL DELIVERED BY BUNDANCE SERVICES, INC:S	Fransporter Statement at the will certify that no additional c-Transporter
MCES, Inc. TICK	116 11421 5 Entine :	CENTENTIAL CONANCE AND ALAN SAVE	TYPE OF MATERIAL  1 Detiling Fluids 1 Detiling Fluids 1 Ssew Contents 1 1 Bsew Contents 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 : Xi vard 12	CES, INC'S ACCEPTANCE OF THE MATERN CES, INC'S ACCEPTANCE OF THE WASTE MATE INND WARRANTS THAT THE WASTE MATE INND WARRANTON MAD RECOVERY ACT OF 19 NEMTH AND SAF CODE § 361 JOI 12 YOU FEORDED DRILLING FLUIDS, PRODUCEDV FEORDED DRILLING FLUIDS, PRODUCEDV ACLOPHENT OR PRODUCTION OF CHUB	INCES, INC.5 ACCEPTANCE OF THE MATER ND WARRANTS THAT ONLY THE A NOW DELIVERED BY TRANSPORTER TO 5	arter loaded the material represented by this deted by the above described shipper. This te material was delivered without incident.
SUNDANCE SERV PO. Box 1737 Eurice, New M (575) 394-2511	ARTOR/SHIPPER/COMPANY: S AE: 11 1, 1	) 1/ - 12 VEHICLENO: 0 . 5/1/37	Production Water     Tank Bottoms     Solids scription:	# F MATERIAL []BBLS.	A CONDITION TO SUNDANCE SERVIC T, OPERATORSHIPPER REPRESENTS BIAL EXEMPT FROM THE REQUIRE, CC BIAL EXEMPT FROM THE REQUIRE, CC E.G. BY URTUE OF THE EXEMPTION AL EXEMPT. WITH LE EXEMPTION AL FERMAL ENERCY.	D AS A CONDITION TO SUNDANCE SER T. TRANSPORTER REPRESENTS AN MORUSHIPPER TO TRANSPORTER IS N TY FOR DISPOSAL	WILL CERTIFY that the above Transpo described location and that that the adv.greg.gdded to this food, and that the Res. Execution of the community UTY REPRESENTATIVE: Community White - Sundance

NDANCE SERVICES, Inc. TICKET No 226671 BO BOA 173 Environ New Meetico 88231	141 MERERICOMPANY: 5/16 141 M. M. W. M. W. M.	SUG	I Production Water     1 Drilling Fluids       I Production Water     1 Drilling Fluids       I Type OF MATERIAL     1 Rinsate       I Type Of MATERIAL     1 Rinsate       I Type Of MATERIAL     1 Rinsate       I Type Of Mater     1 Drilling Fluids       I Type Of Mater     1 Drilling Fluids       I Type Of Material State     1 Drilling Fluids       I Type Of State     1 Drive Out       On     C I D	C-13#	ERIAL 1 1 BBLS. : YL1 VARD 7 : 1 1	CONDITION TO SUNDANCE SERVICES, INC'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB NARORIER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY HIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S LIDEODSAL.	ArtIN: That the above langware loaded the meriorin graveseries by this Transporter Statement at the evolution of that in with the above described shipput incident.
	LEASE OPERATOR/SHIPPEF LEASE NAME: 7/1 (4, 24) TRANSPORTER COMPANY: DATE: 7)- 7/4-12	CHARGE TO: 51	Control (1) 1 (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	RRC of API #	VOLUME OF MATERIAL AS A CONDITION 1 TICKET, OFERATORS- MATERIAL EXEMPTER TO TIME, 40.U.S., 566 THERETO, BY WIRTUE ASSOCIATED WITH TH GEOTHERMAL ENERGY	ALSO AS A CONDITIC TICKET. TRANSPORT OPERATOR/SHIPPER TI FACILITY FOR DISPOS/	Above descrite factority above descrite factority DRIVER, secondari FACILITY REPRESEN

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IN0.2 2266	Пик. (2) Тик. (2) Тик. (2)	Rinsate Jet Out Call Out 33# 1 ]	S SHIPPED WITH THI AL SHIPPED HEREW AS AMENDED FROM AS AMENDED FROM A SAMENDED FROM A SAMENDED FROM A SAMENDER FROM DIL OR NATURAL G LI OR NATURAL G LI SHIPPED WITH TH TATENAL DELIVERE NUDANCE SERVICES,	in consporter Statement III certify that no add Transporter
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SERVIC Since, New Merico ( 5) 394-251 1	N: 51	TYPI	MCE SERVICES, IN PRESENTS AND V SOURCE, CONSEI ENTITI NA HEALTH HEATTH AN HEALTH HEATTON, DEVELOP MITON, DEVELO	ove Transporter le and that the mart
DANCE PO Bar 1737 E	HIPPER/COMPAN Li li li IPANY: BD IP VEHICLE SLI CS	[] Production [] Tank Bottor [] Solids 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1:	THON TO SUNDA TON TO SUNDA MPT FROM THE RE MPT FROM THE RE MPT FROM THE RE THT THE EXPLOR ENERGY. MDTHON TO SUN MEDITON TO SUN MEDITON REPRE REPER TO TRANSF	RTIFY that the al diocation, and this hadded to this load addient to this load addient to this load addient to the addient of the sumdance
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	VICES, Inc. TICKET No. 226830	SUIG MIYELS FIIIILLO GREATOR COMPANY OF STILLE AND GREATOR COMPANY OF STILLE	TYPE OF MATERIAL           1         Orilling Fluids         [] Rinsate           2         Contaminated Soil         [] Jet Out           2         Contaminated Soil         [] Jet Out           1         BSSW Content:         [] Call Out	0.10 c-133# : X61 vrr0_12: 1.1	AND STATES INC:S ACCEPTAINCE OF THE MATERIALS SHIPPED WITH THIS JOB IS AND WARRANTS THAT THE WASTE MATERIALS SHIPPED HEREWITH IS E-CONSERVATION AND RECOVERY ACT OF 1975 AS MARDED FRAMIT MA M HEALTH AND SAF. CODE 9 361 300 14 seq. AND REGULATIONS RELATED M AFTORDED DRULMS, FLUIDS, PRODUCED WATERS, AND OTHER WASTE DRULES, INC:SACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB AND WARRANTS THAT ONL'T THE MATERIALS SHIPPED WITH THIS JOB AND WARRANTS THAT ONL'T THE MATERIALS SHIPPED WITH THIS JOB AND WARRANTS THAT ONL'T THE MATERIALS DELIVERED BY AND WARRANTS THAT ONL'T THE MATERIALS DELIVERED BY IS NOW DELIVERED BY TRANSPORTER TO SUUNDACE SERVICES, INC:S	sporter loaded the material represented by this Transporter Statement at the tendered by the above described shipper. This will certify that no additional at the material was delivered without incident	
· · ·	UNDANCE SER	LEASE OPERATOR/SHIPPER/COMPANY: LEASE OPERATOR/SHIPPER/COMPANY: LEASE MANE: $\overline{1}, 1, 1, 1, 2, 1, 1, 1, 1$ , TRANSPORTER COMPANY: $\widehat{D}, \widehat{D}, 1, 1, 1, 2, -1, 2, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,$	[]         Production Water           []         Froduction Water           []         Tank Bottoms           []         Solids	Description: RRC or API # VOLUME OF MATERIAL [ ] BBLS.	AS A CONDITION TO SUNDANCE SEF TICKET, OPERATON/SHIPPER REPRESENT MATERIAL EXEMPT FROM THE REPOLIDEC TO TIME, 40 U.S.C. 6 6001, et set, THE IN THERETO, BY WITUE OF THE EXEMPTION, THERETO, BY WITUE OF THE EXEMPTION, ASSOCIATED WITH THE EXPLORATION, ASSOCIATED WITH THE EXPLORATION, ALSO AS COMPITION TO SUNDANCE TICKET. TRANSPORTEN REPRESENTS OPERATOR/SHIPPER TO TRANSPORTER	FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above fran above described location, and that it was above described location and that materials were added to this load, and that above described location DRIVER Provident FACILITY REPRESENTATIVE: Concourse) White - Sundance te -one termitonu	

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SERVICES, Inc.     1 <ul> <li></li></ul>	
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OPERATOR/SHIPPER/COMPANY:	EUNDANCE SERVICES, Inc. IICKET No. 226819 PO.800 177 Euroce Neurol 88231 100 00 00 00 00 00 00 00 00 00 00 00 00
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SUNDANCE SERVICES, ROBOT 173 Euro Medico 8231 (2010)       SUNDANCE SERVICES, REAL       SUNDANCE SERVICES, REAL       Store       Store <th>SUNDANCE SERVICES, Inc. TICKET No.: 226879 BO BOL 177 EUNIC NEW MELICO 88231 EASE OPERATORYSHIPPERCOMPANY: S.171 C ASE OPERATORYSHIPPERCOMPANY: S.171 C ASE OPERATORYSHIPPERCOMPANY: S.171 C ASE NAME: T. W. N. N. M. M. M. K. C. J. K. P 271 Z ANNE T. M. L. J. L. J. L. J. C. M. M. M. K. C. J. L. J. C. M. /th> <th>CHARGE TO: 5/1/ G REWARE CHARGE TO: 5/1/ G Revealed Reve</th> <th>AS A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TICKET, OPERATORSHIPPER REPRISENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPTION THE IMPLEMENT CONSTEMENTION AND RECORDER ACT OF 19 AND REGULATIONS RELATED THE 40 USL 50 and a start of the AND HEATH AND SAF. CODE 53 01 ON TARGAL SHIPPED FROM THE RESPONDED PRILLING FULUES, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION DEVELOPMENT ON PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDINION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL DELIVERED SA GEOTHERMAL ENERGY. ALSO AS A CONDON'ON SUNDANCE SERVICES AND VARIANTS THAT ONLY THE MATERIAL DELIVERED BY OREACONSHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S ACCULITY FOR DESIDER. THIS WILL CERTIFY that the downe farsporter todoed the material represented by this Transporter'S atterment of the downe described location, and that it was redered by the downe described shipper. This will certify that no additional material were added to this flow of and that the morterial represented by this Transporter'S atterment of the downe described location and that the morterial were scheded shipper. This will certify that no additional material were added to this flow of and that the morterial were scheded without incident, total to the downe described by the downe detection of the downe for the downe detection of that the morterial were scheded without incident, total to the downe detection of the the morterial were scheded without incident, total to the downe detection of the the downe detection of the downe detection of the the downe detection of the downe detection of the downe detection of the the downe detection of the d</th> <th>le-sete four 1014.11 Study ADV671346 - 432 345 540) - enve PronoGupernutitation</th>	SUNDANCE SERVICES, Inc. TICKET No.: 226879 BO BOL 177 EUNIC NEW MELICO 88231 EASE OPERATORYSHIPPERCOMPANY: S.171 C ASE OPERATORYSHIPPERCOMPANY: S.171 C ASE OPERATORYSHIPPERCOMPANY: S.171 C ASE NAME: T. W. N. N. M. M. M. K. C. J. K. P 271 Z ANNE T. M. L. J. L. J. L. J. C. M. M. M. K. C. J. L. J. C. M.	CHARGE TO: 5/1/ G REWARE CHARGE TO: 5/1/ G Revealed Reve	AS A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TICKET, OPERATORSHIPPER REPRISENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPTION THE IMPLEMENT CONSTEMENTION AND RECORDER ACT OF 19 AND REGULATIONS RELATED THE 40 USL 50 and a start of the AND HEATH AND SAF. CODE 53 01 ON TARGAL SHIPPED FROM THE RESPONDED PRILLING FULUES, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION DEVELOPMENT ON PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDINION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL DELIVERED SA GEOTHERMAL ENERGY. ALSO AS A CONDON'ON SUNDANCE SERVICES AND VARIANTS THAT ONLY THE MATERIAL DELIVERED BY OREACONSHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S ACCULITY FOR DESIDER. THIS WILL CERTIFY that the downe farsporter todoed the material represented by this Transporter'S atterment of the downe described location, and that it was redered by the downe described shipper. This will certify that no additional material were added to this flow of and that the morterial represented by this Transporter'S atterment of the downe described location and that the morterial were scheded shipper. This will certify that no additional material were added to this flow of and that the morterial were scheded without incident, total to the downe described by the downe detection of the downe for the downe detection of that the morterial were scheded without incident, total to the downe detection of the the morterial were scheded without incident, total to the downe detection of the the downe detection of the downe detection of the the downe detection of the downe detection of the downe detection of the the downe detection of the d	le-sete four 1014.11 Study ADV671346 - 432 345 540) - enve PronoGupernutitation
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Υ.	SUNDANCE SERVICES       PO Do 173 ENERNICES       LEASE OPERATORISHIPPERCOMPANY:       DATE:       LEASE OPERATORISHIPPERCOMPANY:       DATE:       LEASE OPERATORISHIPPERCOMPANY:       DATE:       LIASE       DATE:       LIASE       CHARGE TO:       CHARGE TO:

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	ANCE SERVICES, Inc. 1100 256883	FERCOMPANY: 5 [1[G Truink M MYEYS ] & P-2712 M: Partin Enviro Carangoonnum [1:54] (AMPM 2 VENCIENO: 2, CARANGOONNUM [1:1+54711] La 5 [1[G] [00000000	TYPE OF MATERIAL           I Production Water         [ 1 Drilling Fluids         [ ] Rinsate           I Tank Bottoms         X Contaminated Soil         [ ] Jet Out           I Solids         [ ] BS&WContent:         [ ] Call Out           O/LD         [ ] BS&WContent:         [ ] Call Out	[ ] BBLS     [ ] WAD     [ ] WAD     [ ] I       N TO SUNDANCE SERVICS. INC: ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB     [ ] JOBLS     [ ] JOBLS       NSHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED WITH THIS JOB     [ ] GOBLE CONSERVATION AND RECOVERY ACT OF 1976. AS AMENDED FROM THIS       FROM THE RESOURCE. CONSERVATION AND RECOVERY ACT OF 1976. AS AMENDED FROM THIS       FROM THE RESOURCE. CONSERVATION AND RECOVERY ACT OF 1976. AS AMENDED FROM THIS       FROM THE RESOURCE. CONSERVATION AND RECOVERY ACT OF 1976. AS AMENDED FROM THIS       FROM THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976. AS AMENDED FROM THIS       FROM THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976. AS AMENDED FROM THIS       FROM THE RESOURCE CONSERVATION OF CONCEDWARTERS. AND ONTORE WASTER       IF EXPLORATION. DEFLOPMENT OR PRODUCTION OF CRUDE OIL OR MATURAL GAS OR       RECY.	ITTON TO SUNDANCE SERVICES, INC.5 ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB MITER REPRESENTS AND WARRANTS THAN ONLY THE MATERIAL DELVERED BY R TO TRANSPORTER IS NOW DELVERED BY TRANSPORTER TO SUNDANCE SERVICES, INCS OSAL SGAL SGAL FY that the above Transporter loaded the material represented by this fransporter's fortement at the cation, and that it was rendered by the above described shipper. This will certify that no additional edito this load, and that the material was delivered without incident. TATATUS: ADDITION CONTRACTION OF THE ADDITION OF THE
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E SERVICES, Inc. TICKET No. 227101 7 Euroce New Nexico 82231 (575) 394-2511	ANNE S (1G C M NYWER, 1EP-2712 PC(Lin E1U), FU GARAGAMANE (11 FL SHCI,1EU) GLENO, B GARAGAMANE (11 FL SHCI,1EU) IC ROOMER	TYPE OF MATERIAL In Water [] Dilling Fluids [] Rinsate tioms [] Contaminated Soli [] Let Out [] BS&W Content: [] Call Out	с:1338 : с:1338 :	DANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERWITH HIS JOB REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERWITH HIS RESOLGETC CONSERVATION AND RECORPER ACT OF 1976, AS AMENED FROM THE ERECORDECT CONSERVATION AND RECORPER ACT OF 1976, AS AMENED FROM THE ERECORDECT CONSERVATION AND RECORPER ACT OF 1976, AS AMENED FROM THE ERECORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE CORPATION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE CORPATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR	UNDANCE SERVICES, INC'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB PRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY NSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S	e above if an sporter loaded the material represented by this if an sporter Statement at the that it was tendered by the above described shipper. This will certify that no additional bad and that the material was delivered without incident.	ecercrazy nce Canary - Sundance Acct #1 Pink - Transporter
	LEASE OPERATORISHIPPER/COMPA LEASE NAME: Truiik F TRANSPORTER COMPANY: F DATE [[.19.20]2 VEHICL DATE [].19.20]2 VEHICL	[] Production [] Tank Botto [] Solids Description:	RRC or API # VOLUME OF MATERIAL   ] BBLS	AS A CONDITION TO SUNDA TICKET, OPERATOONSHIPPER RE MATERIAL EKEMPT FROM THER TO TIME, 40 U.S.C. 5 600 to 144 TO TIME, 40 U.S.C. 5 600 to 144 ASSOCIATED WITH THE EXPLOID ASSOCIATED WITH THE EXPLOID GEOTHERMAL ENERGY.	ALSO AS A CONDITION TO SUI TICKET. TRANSPORTER REPR OPERATORISHIPPER TO TRANSI FACILITY FOR DISPOSAL.	THIS WILL CERTIFY that the a above described location, and th materials were added to this load DRIVER.	White - Sundance

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/ICES, Inc.	SUG Wers 184-2-	Equico. avenu		I TPE OF MAI EKIAL [ ] Dritting Fluids X Contaminated Soil	[ ] BS&W Content:		- AT YARD - 12	CES, INC: SACCEPTANCE OF THE M AND WARRANTS THAT THE WASTE ONSERVATION AND RECOVERY ACT CONSERVATION AND RECOVERY ACT JECUTHA AND SAF, CODE 5 361, ODI 0 FFORDED DRULING FLUIDS, PROD VELOPMENT OR PRODUCTION OF	RVCES, INC.'S ACCEPTANCE OF THE I ND WARRANTS THAT ONLY 1 NOW DELIVERED BY TRANSPORTE	orter loaded the material represented stdered by the above described shipp ie material was delivered without inc	me Pinew	Canary - Sundance Acct #1
NDANCE SERV PO. Box 1737 Eurice, Newl (575) 394-2511	RISHIPPER/COMPANY:	2013 VEHICLENO: 5	5117	<ul> <li>Production Water</li> <li>Tank Bottoms</li> </ul>	Solids	The second se	TERIAL []BBLS.	MUDITION TO SUNDANCE SERVI ERATOR/SHIPPER REPESENTS ZEAUTIFREDAN THE RECOURGE ULS.C. 5 6901, est-req. THE MM ULS.C. 5 6901, est-req. THE EXEMPTION, DE D WITH THE EXPLORATION, DE AL ENERGY.	A CONDITION TO SUNDANCE SEI BANSPORTER REPRESENTS / /SHIPPER TO TRANSPORTER IS DR DISPOSAL	CERTIFY that the above Transp tibed location, and that it was te ere odded to this lood, and that it ere odded to this lood, and that it	REPRESENTATIVE:	White - Sundance

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	A BOX 1737 ENVIO	PLCOMPANY: SLI CLUIK HI RESULT VEHICLENO: B	TYF Production Water Tank Bottoms Solids	<i>a/2</i>	10 SUNDANCE SERVICES, 1 HIPPER REPRESENTS AND IOM THE RESOURCE, CONSE 900, 14: CARAPTION, AFFOR THE EXPLORATION, DEVELOR HE EXPLORATION, DEVELOR	on to sundance service. Er Represents and To Transporter IS now Al	that the above Transporter I ion, and that it was tendered to this load, and that the ma	MATTVE: CON IL
	SUNDA.	se operator/shipped se name: TC nsporter company: e://-/9.28/2 rge to: S		Description: or API # UME OF MATERIAL	AS A CONDITION T AS A CONDITION T INCKET, OPERATORYSH MATERIAL EXEMPT FRC TO TIRE, 40 U.S.C. § 65 THERETO, 8Y VIRTUE C ASSOCIATED WITH TH GEOTHERMAL ENERGY	ALSO AS A CONDITIC TICKET. TRANSPORTE OPERATOR/SHIPPER TI FACILITY FOR DISPOSA	THIS WILL CERTIFY ( above described locatio moterials were added ( DRIVER:	FACILITY REPRESENT

	ENDANCE SERVICES, Inc. TICKET No. 227119	ASE OPERATORISHIPPERCOMPANY: SUG ASE NAME: Truink M Ruyer: ANSPORTER COMPANY: BUISLIN ÉILUIC ATENFORTER COMPANY: BUISLIN ÉILUICU ATENFORTER COMPANY: BUISLIN ÉILUICU ATENFORTER COMPANY: BUISLINE ALCOLUTE ARGETO: SUG	Image: Control of the second secon	DLUME OF MATERIAL     [1] BBLS     [1] VARD     [1]       AS A CONDITION TO SUNDANCE SERVICES, INCS ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB MATERIAL EXEMPT FROM THE RESOURCE CONSERVATION MARRANTS THAT THE WASTE MATERIAL SHIPPED HITH THIS JOB MATERIAL EXEMPT FROM THE RESOURCE CONSERVATION AND RECOVERY ACT OF 19/6, S5 AMENDED FROM TIME TO TIME, OPENLOS FROM THE RESOURCE CONSERVATION AND RECOVERY ACT OF 19/6, S5 AMENDED FROM TIME TO TIME OF THE EXEMPTION AFFORDED DRULING FLUIDS, PRODUCED WITERS, AND OTHER WASTE ASSOCIATED WITH THE EXEMPTION AFFORDED DRULING FLUIDS, PRODUCED WITERS, AND OTHER WASTE ASSOCIATED WITH THE EXEMPTION AFFORDED DRULING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXEMPTION AFFORDED DRULING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXEMPTION AFFORDED DRULING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXEMPTION AFFORDED DRULING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXEMPTION AFFORDED DRULING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXEMPTION AFFORDED DRULING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXEMPTION AFFORDED DRULING FLUIDS, PRODUCED WATERS, AND GEOTHERMAL REFERS.       ALSO AA CONDITION TO SUNDANCE SERVICES, INCS ACCEPTANCE OF THE MATERIAL SERVICES, INCS FACULITY FOR DISPOSAL       ALSO AA CONDITION TO SUNDANCE REPRESENTS AND WATERIAL DEURFRED BY TRANSPORTER REPRESENTS AND WARANTS THAT ONLY THE MATERIAL DEURFRED BY FACULITY FOR DISPOSAL	THIS WILL CERTIFY that the above frompare handed the material represented by this from porter Stratement at the above described shipper. This will certify that no additional materials were added to this local, and that the material represented by the above described shipper. This will certify that no additional materials were added to this local, and that the material represented by the above described shipper. This will certify that no additional materials were added to this local, and that the material represented by the above described shipper. This will certify that no additional materials were added to that the material represented shipper. This will certify that no additional materials were added to that the material way adding the above described shipper. This will certify that no additional materials were added to that the material way addited with the material way. Sundance Acct #1         PRIVER.       Mater Sundance         Monte - Sundance       Canary - Sundance Acct #1         As even how to that source to an even dependence.
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ŝ GENERATOR CONFINING (11 F + 54/1) / L TIME 9.54 (AMPM AS A CONDITION TO SUNDANCE SERVICES, INCS ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB RUERL, OPERATORS-SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL, SHIPPED HERENTH IS MATERIAL REPERT FROM THE RESCUREE CONSERVATIONAND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 5 6901, et seq., THE NM HEALTH AND SAF. CODE 5 361.001 et seq., AND OFTER WASTE THEETO, BY WITH OF THE EXEMPTION AFFORDED DIALLING FLUIDS, PRODUCED WATERS, AND OFTER WASTE SASCOLATED OF WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GA OR GEOTHERNAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC'S ACCEPTANCE OF THE MATERIALS SHIPPED WITHTHIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATORISHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S APACLUTY FOR DEPOSAL. **THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident. 227227 2 Pink - Transporter **TICKET No.** [ ] Jet Out [ ] Call Out [ ] Rinsate C-133# and the second se RIC NAME AND NUMBER Re-order from: TOTALLY SHARP ADVERTISING + 432-586-5401 + www.Pro 212214 Contaminated Soil 1 YARD Canary - Sundance Acct #1 **LYPE OF MATERIAL**  BS&W Content: FACILITY REPRESENTATIVE TO MULTINE FACILITY REPRESENTATIVE [ ] Drilling Fluids LUIUL SUNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 SUG I TRANSPORTER COMPANY: P.C.S.Y., DATE: 11-26,2012 VEHICLE NO: R Ú, 3 I Production Water (BRUTINDR) LEASE OPERATOR/SHIPPER/COMPANY: LEASE NAME: THINK I Tank Bottoms SLIB White - Sundance VOLUME OF MATERIAL [] BBLS. DRIVER. [ ] Solids • Description: ſ CHARGE TO: RRC or API # 7

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SUNDANCE SERVICES, Inc.   TICKET No.:? 228067     RO Ben 1737 Eunles, New Mealco 88331   TICKET No.:? 228067     RO Ben 1737 Eunles, New Mealco 88331   TICKET No.:? 228067     LEASE OPERATOR/SHIPFER/COMPANY:   2(1)     LEASE NAME:   7(1)     TRANSPORTER COMPANY:   2(1)     DATE-II-5   2(1)     DATE-II-5 </th <th>ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERNAL ENERCY ALSO AS CONDITION TO SUNDANCE SERVICES, INCS ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TALSO AS CONDITION TO SUNDANCE SERVICES, INCS ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TALSO AS CONDITION TO SUNDANCE SERVICES, INCS ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TALSO AS CONDITION TO SUNDANCE SERVICES, INCS ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TALSO AS CONDITION TO SUNDANCE SERVICES, INCS ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TALSO AS CONDICION TO SUNDANCE SERVICES, INCS ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TO PERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INCS FACULTY FOR DISFOSAL. THIS WILL CERTIFY that the dowe transporter loaded the material represented by this Transporter Statement at the dowe described loading logis logid and that the material was delivered without incident. A Letter service on the materials were added to this logid and that the material was delivered without incident. A Letter service on the science of materials were added to this logid and that the material was delivered without incident. A Letter service on the materials were added to this logid and that the material was delivered without incident. A Letter service on the science of the additional data is the material was delivered without incident. A Letter service of the additional data is the material was delivered without incident. A Letter service of the additional data is the material was delivered without incident. A Letter service of the additional data is the second /th>	ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERNAL ENERCY ALSO AS CONDITION TO SUNDANCE SERVICES, INCS ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TALSO AS CONDITION TO SUNDANCE SERVICES, INCS ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TALSO AS CONDITION TO SUNDANCE SERVICES, INCS ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TALSO AS CONDITION TO SUNDANCE SERVICES, INCS ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TALSO AS CONDITION TO SUNDANCE SERVICES, INCS ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TALSO AS CONDICION TO SUNDANCE SERVICES, INCS ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TO PERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INCS FACULTY FOR DISFOSAL. THIS WILL CERTIFY that the dowe transporter loaded the material represented by this Transporter Statement at the dowe described loading logis logid and that the material was delivered without incident. A Letter service on the materials were added to this logid and that the material was delivered without incident. A Letter service on the science of materials were added to this logid and that the material was delivered without incident. A Letter service on the materials were added to this logid and that the material was delivered without incident. A Letter service on the science of the additional data is the material was delivered without incident. A Letter service of the additional data is the material was delivered without incident. A Letter service of the additional data is the material was delivered without incident. A Letter service of the additional data is the second
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District 1 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III

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State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division

Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate

1000 Rio Brazo	s Road, Azte	c, NM 87410 n Fe. NM 87505	) South	th St. Francis Dr. En NM 87505					Office in accordance vith Rule 116 on back side of form		
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				NAT	ΓURE	OF REL	EASE				
Type of Rele	ase Natura	I Gas, Crude (	Dil and Pro	oduced Water		Volume of	Release 10 BI	3LS	Volume I	Recovered	0 BBLS
Source of Re	elease 20-1	inch Steel Pip	eline (Low	/ Pressure)		Date and F June 26, 20	Iour of Occurrenc )11 – Unknown	e	Date and June 26, 2	Hour of Di 2011 – 1014	scovery 4 hrs
Was Immedi	ate Notice (	Given?	Yes 🗌	] No 🖾 Not R	equired	If YES, To Geoffrey L	Whom? .eking – NMOCD	Hobbs	District Of	fice	
By Whom?	Curt D. Star	nley	<u></u>			Date and F	Jour June 27, 20	011			
Was a Water	course Read	ched?		1 No		If YES, Vo	olume Impacting t	he Wate	ercourse.		Mar Bart
L				1 140							
f a Waterco	urse was Im	pacted, Descr	ibe Fully.	•							
									,	ı	
Describe Car Failure of a s and produced Following di	use of Probl segment of t d water. The scovery of t	em and Reme he twenty (20 e cause of the he release, a t	dial Actio ) inch low failure wa emporary	n Taken.* -pressure steel pi s attributed to inte pipeline clamp w	peline re ernal co /as empl	esulted in the rrosion. An ur oyed to mitig	release of approxi nknown volume o ate the release. Th	mately t f natural le releas	ten (10) ba I gas was ro e was large	rrels of a m eleased to th ely airborne	ixture of crude oil he atmosphere. 2.
Describe Are	a Affected	and Cleanup /	Action Tal	ken.*							
An area mea activities wil	suring appro 1 follow NN	oximately 250 40CD guideli	feet in wi nes.	dth and 250 feet	in lengtl	n was affected	by this largely ai	rborne r	elease. De	lineation ar	nd remediation
I hereby cert regulations a public health should their or the enviro federal, state	ify that the ill operators or the envi operations h nment. In a , or local lar	information gi are required t ronment. The nave failed to a iddition, NMC ws and/or regu	iven above o report an acceptanc adequately OCD accep alations.	e is true and comp nd/or file certain ce of a C-141 rep v investigate and otance of a C-141	olete to t release r ort by th remediat report c	he best of my notifications a le NMOCD m te contaminati loes not reliev	knowledge and u nd perform correc arked as "Final R on that pose a thre e the operator of t	nderstar tive acti eport" d eat to gr responsi	nd that purs ions for rel ioes not rel round water ibility for c	suant to NN eases which ieve the ope r, surface w ompliance	10CD rules and a may endanger erator of liability /ater, human health with any other
Signature	Kor	oth	Ya	le			OIL CON	SERV	ATION	DIVISI	ON
Printed Nam	e: Rose L.	Slade				Approved by	CNV ENGI District Supervision	94: 14:60	z. 	22 Ler	MA
Title: EHS C	Compliance	Specialist				Approval Dat	1e: 06/27/11	1	Expiration	$\mathcal{N}$ Date: 08	127111
E-mail Addr	ess: rose.sl	ade@sug.com	<b>_</b>			Conditions of	f Approval: SUB	mit	FINAL	Attache	d 🗌
Date: July 7	, 2011	Phe	one: 432-	-940-5147		- 171 0	1 -0141	r '		IIRH-1	06-11-2721

\* Attach Additional Sheets If Necessary

## 1RP 06-11-2721

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