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

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

**Release Notification and Corrective Action** 

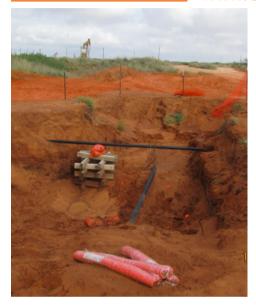
Form C-141

Revised August 8, 2011

	OPERATOR Initial Report Final Report								
Name of Company: Holly Energy Partners		Contact: Allison Stockweather, EHS Senior Manager							
Address: 1602 West Main Street, Artesia, NM 88210		Telephone No.: 575-746-9338							
Facility Name: RJU South 4" Pipeline, Crude Oil Gathering	Facility Typ	Facility Type: Pipeline							
Surface Owner Mineral Owner	er		API N	0.					
LOCATI	ON OF RE	LEASE							
	orth/South Line	Feet from the	East/West Line	County: Eddy County					
	99 WSSS 0915 A44 09								
	Latitude 32.801149 Longitude -104.051554								
Type of Release: Crude Oil Release, Pipeline	Volume of	Release: 28 bbls	Volume	Recovered: 15 bbls					
Source of Release: Hole in pipeline		Hour of Occurrence	100000 00-00 0000 0	d Hour of Discovery: Updated					
	03/09/14, 1			on provided to EHS on 03/10/14,					
Was Immediate Notice Given?	If YES, To	Whom?							
☐ Yes ☒ No ☐ Not Requir	red								
HEP EHS telephone notification to NMED was made within 24 hours to Ruth Horowitz who submitted the notification to OCD.									
By Whom?	Date and I	Hour							
Was a Watercourse Reached?	If YES, V	olume Impacting t	the Watercourse.						
☐ Yes ☒ No									
If a Watercourse was Impacted, Describe Fully.*	•								
N/A									
Describe Cause of Problem and Remedial Action Taken.* Please see attached CRA 2RP-2367 Site Closure Report.									
T lease see attached CRA 2Rt -2507 Site Closure Report.									
Describe Area Affected and Cleanup Action Taken.*									
Please see attached CRA 2RP-2367 Site Closure Report									
I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain relea									
public health or the environment. The acceptance of a C-141 report by									
should their operations have failed to adequately investigate and reme	diate contaminat	ion that pose a thr	eat to ground wat	er, surface water, human health					
or the environment. In addition, NMOCD acceptance of a C-141 reported federal, state, or local laws and/or regulations.	ort does not reliev	ve the operator of	responsibility for	compliance with any other					
reading states, or recar laws and or regulations.		OIL CONSERVATION DIVISION							
a Collison Hockeye the		<u> </u>	221( ) 111101	121110111					
Signature: (Claser to Claurather		Approved by Environmental Specialist:							
Printed Name: Allison Stockweather	Approved by	Environmental S	pecialist:						
Title: EHS Senior Manager	Approval Da	oval Date: Expiration		n Date:					
E-mail Address: Allison.Stockweather@hollyenergy.com	Conditions o	f Approval:		Attached					
Date: 02/03/15 Phone: 575-746-5475		emore.		Attached					
Date: 04/03/10 Phone: 575-746-5475  Attach Additional Sheets If Necessary									



### www.CRAworld.com







**Final Report** 

# SITE CLOSURE REPORT RJU SOUTH 4" PIPELINE RELEASE 2RP-2367

SW/4 of Section 26, Township 17 South, Range 29 East Eddy County, New Mexico

Prepared for: Holly Energy Partners

# **Conestoga-Rovers & Associates**

2135 South Loop, 250 West Midland, Texas 79703



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#### Section 1.0 Introduction

Conestoga-Rovers & Associates (CRA) appreciates the opportunity to submit this Site Closure Report on behalf of Holly Energy Partners (HEP) to the New Mexico Oil Conservation District (NMOCD) for 2RP-2367.

This Site Closure Report provides documentation associated with a crude oil pipeline release and the implementation and management of assessment and restoration activities along the RJU South 4" pipeline located in Eddy County, New Mexico. The closure activities were documented and performed by CRA and its contractors. The RJU South 4" pipeline (crude oil only, no produced water) release ("Site"), is located in the SW 1/4 of Section 26, Township 17 South, Range 29-East, approximately four miles southwest of Loco Hills, New Mexico as shown on the Site Location Map (Figures 1 and 2). A Phillips 66 petroleum pipeline crosses the HEP RJU South 4" pipeline at the release point. The NMOCD "Guidelines for Remediation of Leaks, Spills and Releases," published August 13, 1993, was utilized for assessment, remediation and closure activities in association with this project.

The scope of work for the assessment and restoration activities was developed between HEP and CRA personnel. CRA was responsible for project management; general oversight of the assessment, delineation, remediation and reclamation activities; and, waste coordination documentation of the field work. The scope of work included:

- Waste characterization of crude oil-impacted soils, including analytical testing and use of NMOCD Form C-138 (Appendix A) for waste management purposes.
- Excavation of test pits and collection of soil samples to evaluate the vertical and horizontal extent of the crude oil impacted soils. Deeper test pit excavations were expected in the area proximate to the release point. Soil samples were analyzed for Total Petroleum Hydrocarbons (TPH) impacts to 5,000 mg/kg and benzene (10 mg/kg), toluene, ethylbenzene, and xylenes (BTEX) impacts to 50 mg/kg. Highly impacted soils were identified for proper disposal at the R360 waste facility in Lea County, New Mexico.
- Subsequent excavation events, pending results of the initial test pit samples to remove remaining soils exhibiting concentrations above regulatory levels.
- Backfilling of the remedial excavations; grading of the construction-affected area to minimize erosion and re-seeding of the construction-affected area with native plants and grasses in accordance with Bureau of Land Management (BLM) directives.
- Preparation of a site closure report documenting assessment and remediation activities to provide to NMOCD along with the "Final Report" version of the C-141 (Release Notification and Corrective Action) Form.



#### Section 2.0 Release Information and Response Activities

A crude oil pipeline release was discovered at the Site on March 9, 2014 near the HEP N. RJU South 4" pipeline. The release was caused by a small hole found on the 4" line on March 10, 2014 and, subsequently, a clamp was installed over the hole to prevent further release. The 28 barrel crude oil release was immediately reported to the NMOCD by HEP. NMOCD Form C-141, Release Notification and Corrective Action, dated March 21, 2014 was submitted to the agency containing "Initial Report" information regarding the location, nature of release, remedial actions taken and other details. A copy of this NMOCD Form C-141 is attached in Appendix A.

Vacuum trucks recovered approximately 15 barrels of crude oil from the release area. The remaining fluids saturated the shallow soil and ran along the surface creating a spill path, approximately 90' long and 10' wide, to the south of the release site, before pooling to the southwest. The pool of crude oil was approximately 50' long in the north-south direction and 40'wide in the east-west direction. An emergency excavation removed approximately 120 cubic yards of impacted soil from the release area. The soil was placed on polyvinyl sheeting adjacent to the remedial excavation. Subsequently, the damaged section of the pipeline was replaced. Surface soils at the site were primarily loose, wind-blown sand deposits that were effective in absorbing the released liquids. The Petroleum Recovery Research Center (PRRC) Web Mapping Portal was utilized to research the depth to groundwater in the general area. No groundwater wells or depth to groundwater (DTW) data was available within a 5-6 mile radius of the release. In personal communications with Mike Bratcher with the NMOCD District 2 office, the agency reported that there is "no protectable groundwater resource" present in the release area. Beyond the 5-6 mile radius, the DTW ranged from 79 to 246 feet below the ground surface. Additionally, the NMOCD District 2 confirmed that there is "no protectable groundwater resource" present in the release area.

CRA inspected the Site on March 26, 2014 with a HEP representative and OneSource Industrial (One Source) to evaluate the site conditions and plan for additional assessment and remedial actions. Additionally, CRA met with HEP Operations to obtain details on the incident and coordinate subsequent activities. A composite waste soil sample was collected for waste characterization purposes and NMOCD Form C-138 completion, Request for Approval to Accept Solid Waste, generation and approval. The RJU South 4" crude oil pipeline is not directly associated with Exploration and Production (E&P) activities as the liquids have changed custody from lease operations. The waste materials associated with the release are considered "RCRA non-exempt". A Site aerial map is presented as Figure 2.

CRA made a secondary site visit on May 19, 2014 to examine the excavation and evaluate if the roads could handle the traffic of the haul trucks. The roads were determined to be sufficient to



handle the traffic and there appeared to be no site changes from the previous visit. The initially excavated impacted soils remained stockpiled on-site. During the Site visits, CRA obtained information to develop assessment and remediation work tasks required to move the project toward regulatory closure.

A Site Closure Work Plan was developed and submitted to Mike Bratcher, NMOCD, on April 21, 2014. The 1993 NMOCD guidance document for the site ranking criteria was evaluated, and the total ranking score was determined to be "0". Therefore, the recommended remediation action levels (RRALs) utilized were 5,000 mg/kg for TPH, 10 mg/kg for benzene and 50 mg/kg for total BTEX. After discussion with the NMOCD and HEP representatives, the work plan was verbally approved by the agency on July 8, 2014. Mr. Bratcher provided NMOCD Remediation Permit number, 2RP-2367 for the release incident.

### Section 3.0 Soil Assessment, Delineation, and Remediation

#### 3.1 Test Pit Assessment

Upon arrival to the Site to perform soil removal operations on August 6, 2014, Stop Work Authority was issued as utilities at the Site had not been marked. One Call (811) notifications were updated for a re-mark of utilities including HEP and Conoco Phillips pipelines. Approval was given by HEP to load the first dump truck with the previously excavated crude oil impacted soils. After the line re-marking, One Source began excavating the 13 test pit locations on August 7, 2014 using a backhoe. The test pits were designed to evaluate the vertical and horizontal extent of the crude oil impacts. The crude oil impacted areas and test pit locations with associated analytical summaries are depicted on Figure 3.

Test pit samples (delineation samples, DS) were collected on August 7, 2014 from each of the test pit locations at depths of 2-8 feet below ground surface (bgs). The samples were submitted to Xenco Laboratories in Odessa, Texas and analyzed for TPH by SW 8015 Modified method (C6 to C35) and BTEX by EPA method 8021B. Results of the assessment analytical data are summarized in Table 1. Samples collected from the edges of the crude oil pool, DS #1 and 2, exhibited BTEX and TPH concentrations above the NMOCD Recommended remediation action levels (RRALs). Along the spill path, DS #5, 6 and 7 exhibited TPH concentrations above the RRALs. Within the emergency excavation area, DS # 9 and 12 exhibited BTEX and TPH concentrations above the RRALs and DS #13 exhibited TPH concentrations above RRALs. The remaining DS locations (1, 2, 3, 4, 8, 10, and 11) exhibited BTEX and TPH concentrations below RRALs. Site photographs depicting the affected areas and test pits are presented in Appendix C. Copies of certified laboratory reports and chain of custody documentation are attached in Appendix D.



#### 3.2 Soil Excavation

Soil excavating operations were conducted at the Site on August 7, 2014 and re-commenced between August 27 and September 17, 2014. The heavily stained soil around the affected areas was removed and stockpiled adjacent to the remedial excavations. A Petroflag TPH field screening kit was utilized during excavations to evaluate TPH concentrations to below RRALs as the impacted soils were being over-excavated. Approximately 974 cubic yards (cy) of soil was removed from the remedial excavations.

#### 3.3 Confirmation Sampling and Site Restoration

Confirmation sampling and site restoration activities were suspended on separate occasions due to significant rainfall in the area of the excavation. On October 13, 2014, CRA arrived onsite to assess the amount of water present in the bottom of the excavation. Approximately four feet of water was standing in the excavation. A transfer pump was used to remove the water from the excavation to the southwest of the excavation site into the open field. The site was then left to continue drying out so confirmation sampling could take place.

CRA returned to the Site on October 22, 2014 to collect confirmation samples with Randy Pair of the Bureau of Land Management (BLM). Mr. Pair was not able to be present at the Site, and gave verbal confirmation for sampling to take place. Thirteen confirmation samples were collected from the excavation area (Figure 4). Analytical results from Xenco Laboratories confirmed that all confirmation samples were below NMOCD RRALs for benzene, total BTEX and, total TPH (Table 1).

On December 16, 2014, following verification that all confirmation samples were below NMOCD RRALs, the excavation area was backfilled with 760 cubic yards of soil from a BLM borrow pit approximately five miles away. The BLM contract for sale of mineral material is included as Appendix F. The site was then graded to the native landscape and capped using topsoil from within the project area to provide a native seed bank for the re-seeding process. A BLM-approved #2 seed mixture specified for areas with the endangered Lesser Prairie Chicken (LPC) and sandy soils was purchased from Curtis and Curtis, Inc. in Clovis, New Mexico and hand-broadcast over the excavation area on December 18, 2014, per BLM requirements. Following hand-broadcasting, a harrow was used to till in the seed.

#### **Section 4.0 Waste Management**

A composite waste characterization soil sample was collected from the Site on March 26, 2014 for analysis by Xenco Laboratories in Odessa, Texas. The sample was analyzed for TPH and BTEX for waste profiling and facility approval purposes (see C-138 in Appendix A). The R360 waste facility in western Lea County, New Mexico was used for the disposal of the impacted



soil. The waste characterization analytical data is included on Table 1 and the reports are included in Appendix D. The following table summarizes the approximately 974 cy of impacted soils that were removed from the remedial excavations. The waste manifests are included in Appendix E.

Date	Number of Loads	Cubic Yards/Load	Total Cubic Yards
August 6, 2014	1	17	17
August 7, 2014	1	17	17
August 27, 2014	15	20	300
August 28, 2014	8	20	160
August 29, 2014	9	20	180
September 16, 2014	5	20	100
September 17, 2014	10	20	200
	TOTAL		974

### Section 5.0 Summary

A crude oil pipeline release was discovered at the Site on March 9, 2014 near the RJU South 4" pipeline as a result of a small hole. The following are summary points for the release incident:

- NMOCD Form C-141, Release Notification and Corrective Action, dated March 21, 2014, was submitted to the agency regarding the details of the reported approximate 28 barrel crude oil release.
- The NMOCD "Guidelines for Remediation of Leaks, Spills and Releases," published August 13, 1993, was utilized for project activities. Based on a ranking criteria score of "0", site RRALs utilized were 5,000 mg/kg for TPH, 10 mg/kg for benzene, and 50 mg/kg for total BTFX.
- The extent of the hydrocarbon-impacted soils was defined by collecting delineation samples from the area proximate to the release site and along the spill path. Both Petroflag field screening and analytical methods were utilized to verify excavations reached the extent of the crude oil impacts.
- Confirmation samples were collected from within the excavation to verify that hydrocarbon-impacted soils above the NMOCD RRALs had been removed.
- Soil exhibiting TPH and BTEX concentrations above NMOCD RRALs, (974 cy), was removed from the remedial excavations and disposed of at the R360 waste facility in western Lea County, New Mexico.
- The excavation area was backfilled using material from a BLM borrow pit; graded back to the native landscape; and capped with topsoil from within the project area to provide a natural seed base.



- A BLM-approved #2 seed mixture, specified for areas with the endangered LPC and sandy soils, was hand-broadcast over the excavation area and tilled into the soil using a harrow.
- Assessment, remediation, restoration, and closure activities were performed in coordination with appropriate BLM and NMOCD personnel and guidelines.

### Section 6.0 Site Closure Request for 2RP-2367

This Site Closure Report for the HEP RJU South 4" Pipeline Release, 2RP-2367, provides documentation of closure activities performed at the release site. Based on assessment and corrective actions performed to date and documented in this report, CRA, on behalf of HEP, respectfully requests the NMOCD to rule that no further action for this Site is warranted.

Please feel free to contact Nathan Knowles at the CRA Midland office if there are any questions or additional information is required.

Sincerely,

Conestoga-Rovers & Associates

Thomas Clayon

Thomas C. Larson

Principal, Midland Operations Manager

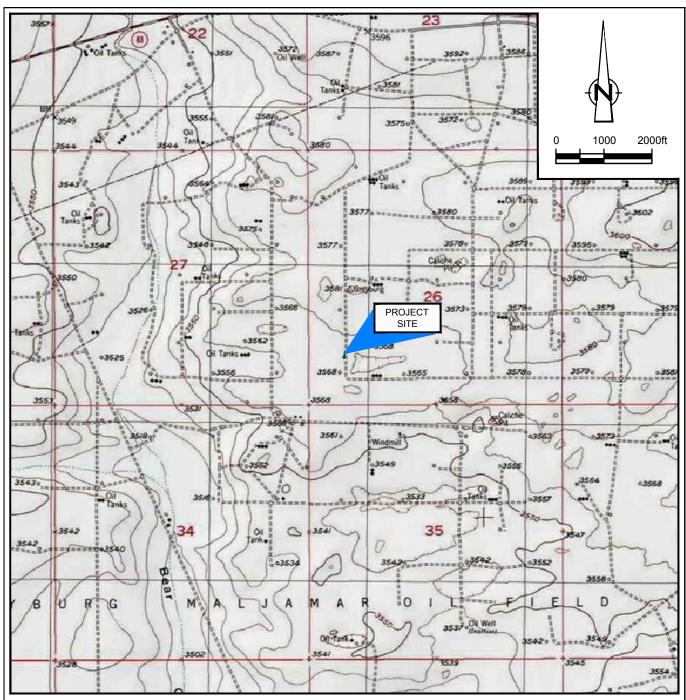
Nathan Knowles Project Manager

Nathan Knowles



# **Figures**





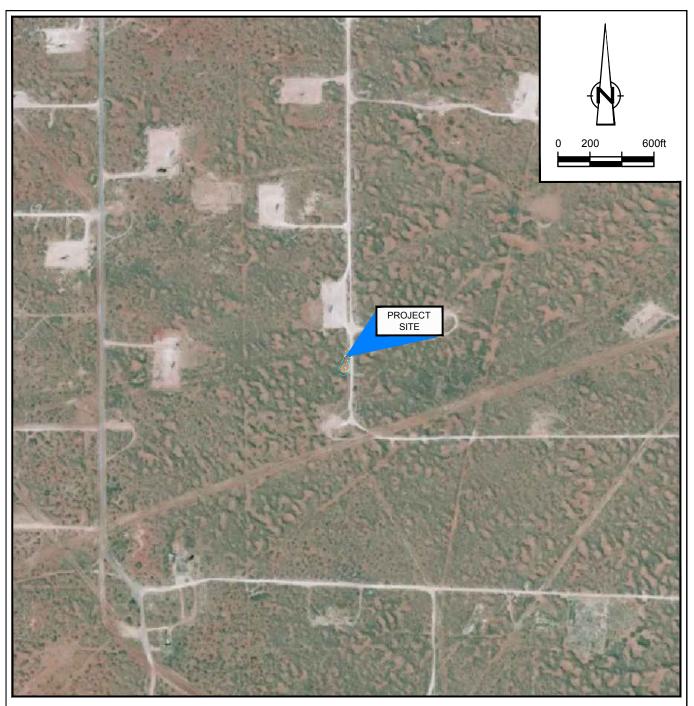
SOURCE: USGS 7.5 MINUTE QUAD "RED LAKE SE, NEW MEXICO"

LAT/LONG: 32.8011° NORTH, 104.0515° WEST COORDINATE: NAD83 DATUM, U.S. FOOT STATE PLANE ZONE - NEW MEXICO EAST

### Figure 1

SITE LOCATION MAP RJU SOUTH 4" CRUDE OIL RELEASE SITE SECTION 26, T-17-S, R-29-E EDDY COUNTY, NEW MEXICO Holly Energy Partners





LAT/LONG: 32.8011° NORTH, 104.0515° WEST COORDINATE: NAD83 DATUM, U.S. FOOT STATE PLANE ZONE - NEW MEXICO EAST

# Figure 2

SITE AERIAL MAP RJU SOUTH 4" CRUDE OIL RELEASE SITE SECTION 26, T-17-S, R-29-E EDDY COUNTY, NEW MEXICO Holly Energy Partners



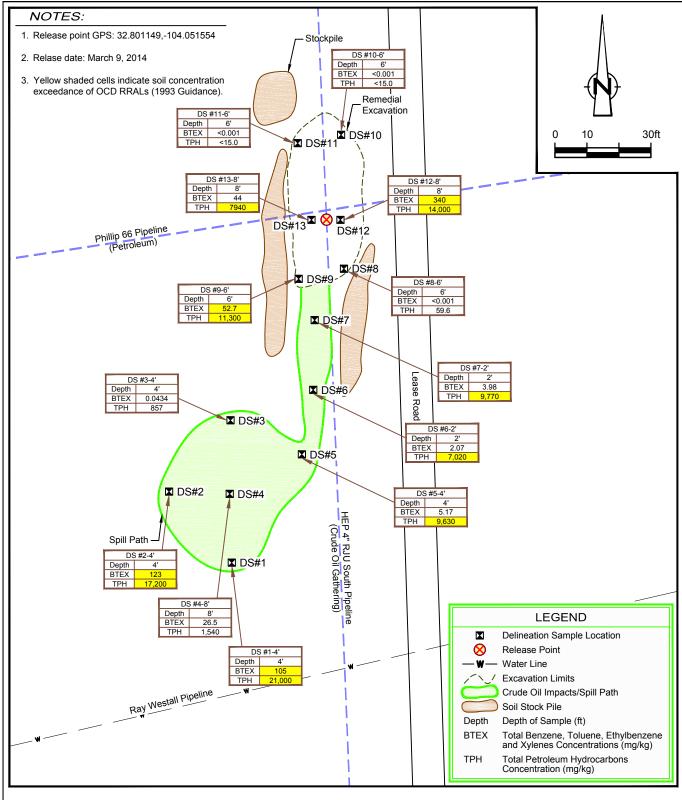


Figure 3

SITE DETAIL AND DELINEATION SAMPLES RJU SOUTH 4" CRUDE OIL RELEASE SITE SECTION 26, T-17-S, R-29-E EDDY COUNTY, NEW MEXICO Holly Energy Partners



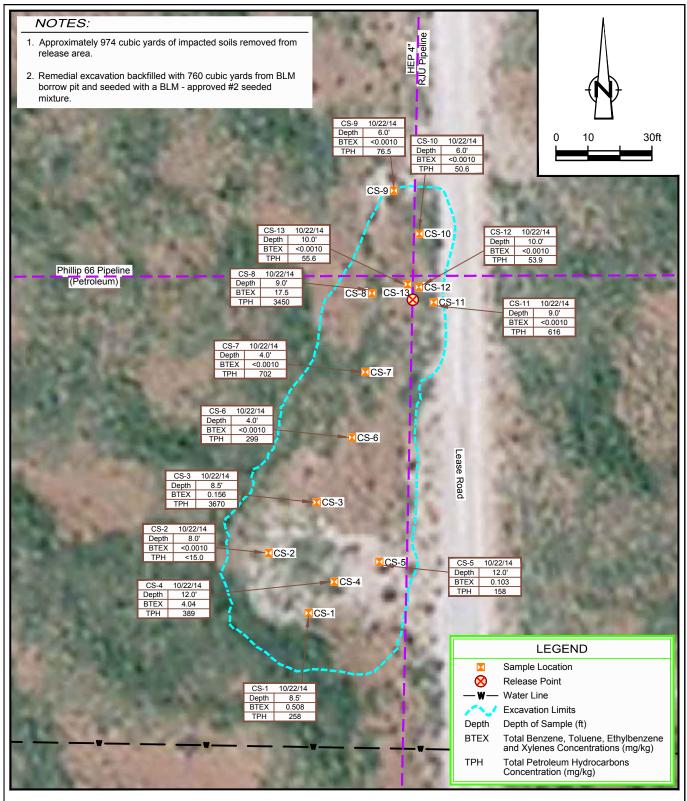


Figure 4

CONFIRMATION SOIL ANALYTICAL RESULTS RJU SOUTH 4" CRUDE OIL RELEASE SITE SECTION 26, T-17-S, R-29-E EDDY COUNTY, NEW MEXICO Holly Energy Partners



# **Tables**



# SOIL ANALYTICAL SUMMARY RJU SOUTH SPILL MANAGEMENT Loco Hills, New Mexico

		Sample Date	BTEX (EPA 8021B)					TPH (SW 8015 Modified)			
Sample ID	Depth (bgs)		Benzene	Toluene	Ethyl- Benzene	Xylenes	Total BTEX	C6-C12 Gas Range Hydrocarbons	C12-C28 Diesel Range Hydrocarbons	C28-C35 Oil Range Hydrocarbons	Total TPH
NMOCD Recommended F	NMOCD Recommended Remediation Action Levels		10				50				5000
	1		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Waste Profile (composite)		3/26/2014	0.412				0.412	3550	17200	898	21648
DS #1-4'	4.0	8/7/14	<0.00100	7.32	37.4	60.6	105	4480	16100	440	21000
DS #2-4'	4.0	8/7/14	<0.00100	10.1	44.2	69.1	123	3750	13100	316	17200
DS #3-4'	4.0	8/7/14	<0.00100	<0.00200	0.00974	0.0337	0.0434	55.7	777	23.9	857
DS #4-8'	8.0	8/7/14	0.224	4.34	9.8	12.1	26.5	324	1180	35.6	1540
DS #5-4'	4.0	8/7/14	0.0572	0.753	1.55	2.81	5.17	1290	8130	205	9630
DS #6-2'	2.0	8/7/14	<0.00100	0.0786	0.117	1.87	2.07	762	6090	166	7020
DS #7-2'	2.0	8/7/14	0.0198	0.496	1.05	2.41	3.98	1290	8250	225	9770
DS #8-6'	6.0	8/7/14	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100	<15.0	59.6	<15.0	59.6
DS #9-6'	6.0	8/7/14	<0.00100	3.54	9.48	39.7	52.7	3210	8060	<15.0	11300
DS #10-6'	6.0	8/7/14	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100	<15.0	<15.0	<15.0	<15.0
DS #11-6'	6.0	8/7/14	< 0.00100	<0.00200	<0.00100	<0.00100	<0.00100	<15.0	<15.0	<15.0	<15.0
DS #12-8'	8.0	8/7/14	2.18	56.2	98.2	183	340	4670	9320	<15.0	14000
DS #13-8'	8.0	8/7/14	<0.00100	3.73	10.9	29.4	44	2000	5940	<15.0	7940
CS-1	8.5	10/22/14	<0.00100	<0.00200	0.0103	0.498	0.508	68.7	189	<15.0	258
CS-2	8.0	10/22/14	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100	<15.0	<15.0	<15.0	<15.0
CS-3	8.5	10/22/14	<0.00100	<0.00200	<0.00100	0.156	0.156	353	3120	192	3670
CS-4	12.0	10/22/14	<0.00100	0.0449	1.65	2.35	4.04	130	259	<15.0	389
CS-5	12.0	10/22/14	<0.00100	<0.00200	0.00413	0.0991	0.103	45.7	112	<15.0	158
CS-6	4.0	10/22/14	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100	<15.0	299	<15.0	299
CS-7	4.0	10/22/14	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100	<15.0	667	34.6	702
CS-8	9.0	10/22/14	<0.00100	<0.00200	0.777	16.7	17.5	783	2550	119	3450
CS-9	6.0	10/22/14	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100	<15.0	76.5	<15.0	76.5
CS-10	6.0	10/22/14	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100	<15.0	50.6	<15.0	50.6
CS-11	9.0	10/22/14	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100	<15.0	566	49.8	616
CS-12	10.0	10/22/14	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100	<15.0	53.9	<15.0	53.9
CS-13	10.0	10/22/14	<0.00100	<0.00200	<0.00100	<0.00100	<0.00100	<15.0	55.6	<15.0	55.6

Notes:

- 1. All analytical results reported in (mg/kg) milligrams per kilogram
- 2. BTEX analysis by Method EPA 8021 B
- 3. TPH analysis by Method SW 8015 Modified
- 4. Highlighted cells indicate concentrations exceeding guidance RRALs
- 5. RRALs from 1993 New Mexico OCD Release Guidance Document, site ranking score = 0
- 6. < indicates below laboratory Reporting Limit (RL)
- 7. bgs- below ground surface
- 8. DS- Delineation sample
- 9. CS- Confirmation sample
- 10. (--) Indicates not sampled

# **Appendices**



# Appendix A

New Mexico Oil Conservation District Forms C-138 and C-141



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

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

Form C-138 Revised March 12, 2007 \*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE
1. Generator Name and Address: Holly Energy Partners, 1602 W. Main Street, Artesia, NM 88210
2. Originating Site: RJU South
3. Location of Material (Street Address, City, State or ULSTR): 4 miles SW of Loco Hills, New Mexico, Eddy County, Texas
4. Source and Description of Waste: Soil impacted with crude oil from pipeline release.
Estimated Volume 800 (yd') bbls Known Volume (to be entered by the operator at the end of the haul) yd³/bbls  5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS  I, Allison Stockweather certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)
☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. Operator Use Only: Waste Acceptance Frequency ☐ Monthly ☐ Weekly ☐ Per Load
☑ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS  1, Inherty Granter Testing Certification Statement for Landfarms do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
5. Transporter: One Source Industrial
OCD Permitted Surface Waste Management Facility
Name and Facility Permit #: R360 Half Way Facility, Permit # R-9166
Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm ☒ Landfill ☐ Other
Waste Acceptance Status:  APPROVED  DENIED (Must Be Maintained As Permanent Record)
PRINT NAME: Hoherto Canalys fry. TITLE: Site Manager DATE: 6/24/14
SIGNATURE: TELEPHONE NO.: 575-887-6504

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

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

X Initial Report

Form C-141

Final Report

Revised August 8, 2011

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

# Release Notification and Corrective Action

**OPERATOR** 

Name of Company: Holly Energy Partners					Contact: Allison Stockweather, Senior EHS Manager							
					Telephone No.: 575-746-9338							
Facility Name: RJU South 4" Pipeline, Crude Oil Gathering						Facility Type: Pipeline						
Surface Own	Surface Owner Mineral Owner API No.											
Surface Owi	Surface Owiler Milleral Owiler At 1 No.											
LOCATION OF RELEASE: see latitude and longitude below.												
Unit Letter	Section	Township	Range			South Line	Feet from the	East/Wes		County		
	100	100								Eddy County		
				I adda.da 20.9	00114	) I' I-	104.051554					
						_	-104.051554					
T CD I	C 1	O'I D I D		NAT	URE	OF RELI			** .	D 1 15111		
Type of Relea			ipeline				Release: 28 bbls		0.0000000000000000000000000000000000000	d Hour of Discovery:		
Source of Rei	ease. noie	in pipeime				03/09/14, 1		e:		d information provided to EHS		
						00/05/11,	1.20 4			0/14, 11:00 am		
Was Immedia	ite Notice (					If YES, To	Whom?					
			Yes $\underline{X}$	No Not Req	uired							
HEP EHS tele	ephone not	ification to N	MED was	made w/in 24 hour	rs to							
Ruth Horowit												
By Whom?						Date and Hour						
Was a Watero	course Read	ched?	F 1960AL B 1029			If YES, Volume Impacting the Watercourse.						
			Yes X	No		8						
If a Watercou	rse was Im	pacted, Descr	ibe Fully.	* NA								
		•										
Describe Cau	se of Probl	em and Reme	dial Action	n Taken.* HEP wa	s notifi	ed of the rele	ase by Concho. A	HEP ope	rator isol	lated the 4" hand-run line;		
notified the ap	ppropriate l	HEP contacts;	and dispa	tched excavation of	rews.	A small hole	was found in the	pipeline or	03/10/1	4. HEP Operations installed a		
clamp and sul	bsequently	replaced the p	pipe. The	majority of the rele	ease wa	s contained o	n the right-of-way	. The pip	eline is a	non-regulated asset.		
				en.* Vacuum truc	ks reco	vered 15 bbls	of free product.	The site w	ill be ass	essed and remediated in		
accordance w	ith NMOC	D regulations.										
I hereby certi	fy that the i	nformation gi	iven above	is true and compl	ete to tl	he best of my	knowledge and u	nderstand	that purs	uant to NMOCD rules and		
regulations al	loperators	are required t	o report ar	nd/or file certain re	lease n	otifications ar	nd perform correc	tive action	s for rele	eases which may endanger		
public health	or the envi	ronment. The	acceptano	ce of a C-141 repor	rt by the	e NMOCD m	arked as "Final R	eport" doe	s not reli	eve the operator of liability		
										, surface water, human health		
				nance of a C-141 r	eport a	oes not renev	e the operator of i	responsibil	ity for co	ompliance with any other		
federal, state, or local laws and/or regulations.  Signature: Ulson Arckevicther OIL CONSERVATION DIVISION							DIVISION					
Printed Name	: Allison S	tockweather	~~~~									
						Approved by	Environmental Sp	pecialist:				
Title: Senior	EHS Mana	ger				Ammorral D-				Data		
F-mail Addre	ese Allison	Stockweather	mhollven	ergy com		Approval Dat	e:	Ex	piration l			
E-mail Address: Allison.Stockweather@hollyenergy.com  Date: 03/21/14 Phone: 575-746-5475 Co						Conditions of Approval:				Attached		

<sup>\*</sup> Attach Additional Sheets If Necessary

# **Appendix B**

**Site Chronology** 



## Site Chronology Holly Energy Partners (HEP) RJU South 4" Pipeline Crude Oil Release

March 9, 2014 (Sunday)	At approximately 11:20 AM, a crude pipeline release was discovered by a Concho Oil and Gas pumper near the HEP RJU South 4" pipeline. The 28 barrel crude oil release was immediately reported to the New Mexico Oil Conservation District (NMOCD).
March 10, 2014 (Monday)	A small hole was discovered on the HEP pipeline and a clamp was installed over the hole to stop further leakage. Vacuum trucks reportedly recovered 15 barrels of oil from the release area and the damaged section of pipeline was replaced. Approximately 120 cubic yards of impacted soil were removed from the release point and placed on polyvinyl sheeting adjacent to the remedial excavation.
March 21, 2014 (Friday)	NMOCD Form C-141, Release Notification and Corrective Action, submitted to the agency.
March 26, 2014 (Wednesday)	CRA inspected the Site, with OneSource Industrial, to evaluate site conditions and plan for additional assessment and remedial actions. Additionally, CRA met with HEP's Levi Polito to obtain details on the incident and coordinate subsequent activities. A composite waste sample was collected for waste characterization purposes and generation of NMOCD for C-138, Request for Approval to Accept Solid Waste.
May 19, 2014 (Monday)	Additional inspection of the site, including the excavation and roads.  The roads were determined to be sufficient as to handle the traffic of the haul trucks. No changes were observed from the previous site visit. Crude oil impacted soils remain stockpiled on-site.
August 6, 2014 (Wednesday)	Upon arrival to the Site, no utilities were marked and Stop Work Authority (SWA) was issued. 811 was contacted for a re-mark of the site. HEP was contacted to obtain approval to load dump truck with impacted soils. Approval was given by HEP to load dump truck with impacted soils without the One Call re-mark. One truck load, 17 cubic yards, of impacted soil was hauled off-site to R360 landfill.
August 7, 2014 (Thursday)	Loaded Truck #2 with 17 cubic yards of impacted soils to be hauled off to R360 landfill. Excavation of 13 test pit locations commenced. Prior to sampling, approval for sampling was given by the Bureau of Land Management (BLM) representative and it was noted that the BLM does not need to be on-site for collection of delineation samples. Thirteen delineation samples were collected. A photo-ionization detector (PID) was used to evaluate the absence or presence of volatile organic compounds (VOCs).

August 27, 2014 (Wednesday)	Met on-site with D&D Construction and HEP representative for safety meeting and Job Safety Analysis (JSA) review. Began hauling impacted soils to R360 landfill. In total, 15 loads of 20 cubic yards each were hauled off-site. Impacted soils remain on-site to be hauled off.
August 28, 2014 (Thursday)	Met on-site with D&D construction and HEP representative for safety meeting and JSA review. Additional foreman present from Phillips 66 (P66) as a P66 petroleum pipeline crosses the HEP 4" pipeline. Excavation around the pipelines commenced. Eight 20 cubic yard loads of impacted soil were hauled off-site to R360 landfill. Impacted soils remain on-site for haul-off.
August 29, 2014 (Friday)	Met on-site with D&D Construction and HEP representative for safety meeting and JSA review. Nine 20 cubic yard loads of impacted soil hauled off-site to R360 landfill. D&D Construction crew shut down until further notice due to rain.
September 15, 2014 (Monday)	Site visit postponed due to rain in the forecast.
September 18-20, 2014 (Thursday-Saturday)	Heavy rainfall in and around the site location caused areal flooding and pooling of water in the excavation bottom.
October 1, 2014 (Wednesday)	Site visit made by Steven Perez out of the Albuquerque office to assess site conditions following heavy rainfall in the area. Mr. Perez reported approximately 4 feet of standing water in the excavation area.
October 7, 2014 (Tuesday)	Additional site visit made by Steven Perez to assess amount of water still in the excavation area. Water level had not changed much since the last visit and approximately four feet of water still stood in the excavation.
October 13, 2014 (Monday)	Arrived on-site to assess the amount of water in the bottom of the excavation. A transfer pump was used to remove approximately 4 feet of water from the excavation. Additionally, the fence around the excavation was repaired.
October 22, 2014 (Wednesday)	BLM representative, Randy Pair, was not able to make it to the site, but verbally confirmed work could take place. 13 confirmation samples were collected from the excavation and five of the samples were field screened using Petroflag.
December 17, 2014 (Wednesday)	Backfilling activities commenced by hauling in 760 cubic yards of soil from a BLM borrow pit approximately five miles away.
December 18, 2014 (Thursday)	The area was capped with native topsoil from within the project area. The excavation was graded back to the natural landscape and the BLM-approved seed mixture was hand-broadcast across the excavation area. A harrow was then used to till the seed into the topsoil.

# **Appendix C**

**Site Photographs** 





Photo 1 – March 26, 2014: looking north showing impacted soils and stockpiles.



Photo 2 – March 26, 2014: looking north showing the emergency excavation around the Phillips 66 Pipeline (top) and HEP RJU South 4" Pipeline (bottom).





Photo 3 – August 27, 2014: looking south as excavations along the spill path began.



Photo 4 – August 28, 2014 facing northwest showing western extent of the spill path excavation.





Photo 5 – August 29, 2014: looking north along the spill path.



Photo 6 – August 29, 2014 facing south west. The emergency excavation is in the foreground with the spill path excavation in the background.





Photo 7 – September 22, 2014: Emergency excavation following heavy rains on September 18-20, 2014.



Photo 8 – October 7, 2014: Emergency excavation following heavy rains in September.





Photo 9 – October 22, 2014: facing west following removal of approximately 4 feet of water from the spill path excavation.



Photo 10 – October 22, 2014: looking north along the spill path excavation.





Photo 11 – Emergency excavation on October 22, 2014 looking north.



Photo 12 – December 16, 2014: looking north/northwest during backfill activities.





Photo 13 – December 16, 2014: Hand-broadcasting of BLM-approved Lesser Prairie Chicken (LPC) seed mix over the backfilled excavations.



Photo 14 – December 16, 2014: looking south at the backfilled excavations.



# **Appendix D**

**Certified Laboratory Reports** 



# **Analytical Report 482259**

for Conestoga Rovers & Associates

Project Manager: Nathan Knowles
Holly Energy RJU
086361
11-APR-14

Collected By: Client





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

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054) New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

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-Lakeland: Florida (E84098)

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

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

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

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

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





11-APR-14

Project Manager: Nathan Knowles Conestoga Rovers & Associates 2135 S Loop 250 W Midland, TX 79703

Reference: XENCO Report No(s): 482259

**Holly Energy RJU**Project Address: TX

#### **Nathan Knowles:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 482259. 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. 482259 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, Hoah

**Kelsey Brooks** 

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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



# **Sample Cross Reference 482259**



# Conestoga Rovers & Associates, Midland, TX

Holly Energy RJU

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
Waste Profile	S	03-26-14 13:40		482259-001



Analyst:

MKO

#### Certificate of Analytical Results 482259



#### Conestoga Rovers & Associates, Midland, TX

Holly Energy RJU

Sample Id: Waste Profile Matrix: Soil Sample Depth:

Lab Sample Id: 482259-001 Date Collected: 03.26.14 13.40 Date Received: 03.28.14 16.15

Analytical Method: Reactive Cyanide by EPA 9010B Prep Method:

Analyst: BFO % Moist: Tech: BFO

Seq Number: 937689 Date Prep: Subcontractor: SUB: E871002 Prep seq:

CAS Analysis **Dil Factor** SDL **Parameter MQL** Result Units Number Date Cyanide 57-12-5 ND 0.200 0.176 04.02.14 12:12 U mg/kg

Analytical Method: TCLP Mercury by SW 7470A Prep Method: SW7470P

Analyst: DAB % Moist: Tech: DAB

Seq Number: 937576 Date Prep: 04.01.14 13.00

Subcontractor: SUB: E871002 Prep seq: 653334

CAS **Dil Factor Analysis Parameter** Result MOL SDL Units Number Date 7439-97-6 04.01.14 17:13 Mercury 0.0001390.000200 0.0000291 mg/L

Analytical Method: TCLP Metals by SW846 6010B Prep Method: 3010A

% Moist:

Seq Number: 938325 Date Prep: 04.01.14 12.00

Subcontractor: SUB: E871002 Prep seq: 653316

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Antimony	7440-36-0	ND	0.100	0.0294	mg/L	04.10.14 23:06	U	5
Arsenic	7440-38-2	0.0322	0.100	0.0275	mg/L	04.10.14 23:06	J	5
Barium	7440-39-3	1.19	0.0500	0.00674	mg/L	04.10.14 23:06		5
Beryllium	7440-41-7	ND	0.0200	0.00245	mg/L	04.10.14 23:06	U	5
Cadmium	7440-43-9	ND	0.0500	0.0122	mg/L	04.10.14 23:06	U	5
Chromium	7440-47-3	0.00578	0.0500	0.00405	mg/L	04.10.14 23:06	J	5
Lead	7439-92-1	ND	0.0500	0.0118	mg/L	04.10.14 23:06	U	5
Nickel	7440-02-0	0.0344	0.0500	0.0154	mg/L	04.10.14 23:06	J	5
Selenium	7782-49-2	ND	0.150	0.0219	mg/L	04.10.14 23:06	U	5
Silver	7440-22-4	ND	0.100	0.0279	mg/L	04.10.14 23:06	U	5

Tech:

MKO





#### Conestoga Rovers & Associates, Midland, TX

Holly Energy RJU

Sample Id: Waste Profile Matrix: Soil Sample Depth:

Lab Sample Id: 482259-001 Date Collected: 03.26.14 13.40 Date Received: 03.28.14 16.15

Analytical Method: Flash Point (CC) SW-846 1010 Prep Method:

Analyst: DHE % Moist: Tech: DHE

Seq Number: 937776 Date Prep: Subcontractor: SUB: E871002 Prep seq:

Parameter  $\frac{\text{CAS}}{\text{Number}}$  Result MQL SDL Units  $\frac{\text{Analysis}}{\text{Date}}$  Flag Dil Factor Flash Point >180 Deg F 04.03.14 12:40 U 1

Analytical Method: Reactive Sulfide by SW 9030B Prep Method:

Analyst: DHE % Moist: Tech: DHE

Seq Number: 937681 Date Prep:
Subcontractor: SUB: E871002 Prep seq:

CAS **Dil Factor Analysis Parameter** Result MOL SDL Units Number Date Sulfide 40.0 6.72 04.02.14 16:55 18496-25-8 50.0 mg/kg

Analytical Method: Soil pH by EPA 9045C Prep Method:

Analyst: DHE % Moist: Tech: DHE

Seq Number: 937540 Date Prep: Subcontractor: SUB: E871002 Prep seq:

CAS Analysis Dil Factor Parameter Result MQL SDL Units Flag Number Date pН 12408-02-5 8.53 SU 04.01.14 16:09





#### Conestoga Rovers & Associates, Midland, TX

Holly Energy RJU

Sample Id: Waste Profile Matrix: Soil Sample Depth:

Lab Sample Id: 482259-001 Date Collected: 03.26.14 13.40 Date Received: 03.28.14 16.15

Analytical Method: TPH by Texas1005 Prep Method: 1005

Analyst: FOV % Moist: 4.47 Tech: FOV

Seq Number: 937459 Date Prep: 03.31.14 14.41

Subcontractor: SUB: E871002 Prep seq: 653242

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	3550	26.0	15.6	mg/kg	03.31.14 22:52		1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	17200	130	78.0	mg/kg	04.01.14 11:46	D	5
C28-C35 Oil Range Hydrocarbons	PHCG2835	898	26.0	15.6	mg/kg	03.31.14 22:52		1
Total TPH 1005	PHC635	21600		15.6	mg/kg	04.01.14 11:46		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	112	70 - 135	%		
o-Terphenyl	200	70 - 130	%		**

Analytical Method: TCLP SVOCs by EPA 8270C Prep Method: 3510C

Analyst: PKH % Moist: Tech: PKH

Seq Number: 937957 Date Prep: 04.05.14 10.42

Subcontractor: SUB: E871002 Prep seq: 653536

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
1,4-Dichlorobenzene	106-46-7	ND	0.0250	0.00474	mg/L	04.07.14 14:17	U	1
2,4,5-Trichlorophenol	95-95-4	ND	0.0250	0.00447	mg/L	04.07.14 14:17	U	1
2,4,6-Trichlorophenol	88-06-2	ND	0.0250	0.00543	mg/L	04.07.14 14:17	U	1
2,4-Dinitrotoluene	121-14-2	ND	0.0250	0.00384	mg/L	04.07.14 14:17	U	1
2-methylphenol	95-48-7	ND	0.0250	0.00426	mg/L	04.07.14 14:17	U	1
3&4-Methylphenol	15831-10-4	ND	0.0250	0.00420	mg/L	04.07.14 14:17	U	1
Hexachlorobenzene	118-74-1	ND	0.0250	0.00451	mg/L	04.07.14 14:17	U	1
Hexachlorobutadiene	87-68-3	ND	0.0250	0.00495	mg/L	04.07.14 14:17	U	1
Hexachloroethane	67-72-1	ND	0.0250	0.00514	mg/L	04.07.14 14:17	U	1
Nitrobenzene	98-95-3	ND	0.0250	0.00508	mg/L	04.07.14 14:17	U	1
Pentachlorophenol	87-86-5	ND	0.0500	0.00261	mg/L	04.07.14 14:17	U	1
Pyridine	110-86-1	ND	0.0500	0.00370	mg/L	04.07.14 14:17	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
2-Fluorophenol	52	30 - 100	%		
Phenol-d6	49	15 - 94	%		
Nitrobenzene-d5	57	46 - 111	%		
2-Fluorobiphenyl	61	44 - 117	%		
2,4,6-Tribromophenol	73	48 - 117	%		
Terphenyl-D14	83	46 - 126	%		





#### Conestoga Rovers & Associates, Midland, TX

Holly Energy RJU

Sample Id: Waste Profile Matrix: Soil Sample Depth:

Lab Sample Id: 482259-001 Date Collected: 03.26.14 13.40 Date Received: 03.28.14 16.15

Analytical Method: BTEX by SW 8260B

Prep Method: 5030B

Analyst: SAD % Moist: 4.47

Tech: SAD

Seq Number: 937534 Date Prep: 04.01.14 15.30

Subcontractor: SUB: E871002 Prep seq: 653312

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Benzene	71-43-2	0.412	0.104	0.0199	mg/kg	04.01.14 15:45	99

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	92	74 - 126	%		
1,2-Dichloroethane-D4	88	80 - 120	%		
Toluene-D8	126	73 - 132	%		
4-Bromofluorobenzene	112	58 - 152	%		

Analytical Method: TCLP VOAs by EPA 8260B Prep Method: 5030B

Analyst: MCH % Moist: Tech: MCH

Seq Number: 937788 Date Prep: 04.02.14 17.24

Subcontractor: SUB: E871002 Prep seq: 653470

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00655	0.0250	0.00102	mg/L	04.02.14 20:16	J	5
2-Butanone	78-93-3	ND	0.250	0.00660	mg/L	04.02.14 20:16	U	5
Carbon Tetrachloride	56-23-5	ND	0.0250	0.00140	mg/L	04.02.14 20:16	U	5
Chlorobenzene	108-90-7	ND	0.0250	0.00112	mg/L	04.02.14 20:16	U	5
Chloroform	67-66-3	ND	0.0250	0.00120	mg/L	04.02.14 20:16	U	5
1,4-Dichlorobenzene	106-46-7	ND	0.0250	0.000989	mg/L	04.02.14 20:16	U	5
1,2-Dichloroethane	107-06-2	ND	0.0250	0.000790	mg/L	04.02.14 20:16	U	5
1,1-Dichloroethene	75-35-4	ND	0.0250	0.00136	mg/L	04.02.14 20:16	U	5
Tetrachloroethylene	127-18-4	ND	0.0250	0.00115	mg/L	04.02.14 20:16	U	5
Trichloroethene	79-01-6	ND	0.0250	0.00192	mg/L	04.02.14 20:16	U	5
Vinyl Chloride	75-01-4	ND	0.0100	0.00146	mg/L	04.02.14 20:16	U	5

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	100	75 - 131	%		
1,2-Dichloroethane-D4	97	63 - 144	%		
Toluene-D8	95	80 - 117	%		
4-Bromofluorobenzene	98	74 - 124	%		





#### Conestoga Rovers & Associates, Midland, TX

Holly Energy RJU

Sample Id: 653242-1-BLK Matrix: Solid Sample Depth:

Lab Sample Id: 653242-1-BLK Date Collected: Date Received:

Analytical Method: TPH by Texas1005 Prep Method: 1005

Analyst: FOV % Moist: Tech: FOV

Seq Number: 937459 Date Prep: 03.31.14 14.05

Subcontractor: SUB: E871002 Prep seq: 653242

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	25.0	15.0	mg/kg	03.31.14 17:46	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	25.0	15.0	mg/kg	03.31.14 17:46	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	25.0	15.0	mg/kg	03.31.14 17:46	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag	
1-Chlorooctane	89	70 - 135	%			
o-Terphenyl	90	70 - 130	%			

Sample Id: 653312-1-BLK Matrix: Solid Sample Depth:

Lab Sample Id: 653312-1-BLK Date Collected: Date Received:

Analytical Method: BTEX by SW 8260B

Analyst: SAD % Moist: Tech: SAD

Seq Number: 937534 Date Prep: 04.01.14 11.16

Subcontractor: SUB: E871002 Prep seq: 653312

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000192	mg/kg	04.01.14 12:45	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	97	74 - 126	%		
1,2-Dichloroethane-D4	90	80 - 120	%		
Toluene-D8	102	73 - 132	%		
4-Bromofluorobenzene	104	58 - 152	%		

Prep Method:

5030B





#### Conestoga Rovers & Associates, Midland, TX

Holly Energy RJU

Sample Id: 653316-1-BLK Matrix: Water Sample Depth:

Lab Sample Id: 653316-1-BLK Date Collected: Date Received:

% Moist:

Analytical Method: TCLP Metals by SW846 6010B

Prep Method: 3010A

Analyst: MKO

Tech: MKO

Seq Number: 938325 Date Prep: 04.01.14 12.00

Subcontractor: SUB: E871002 Prep seq: 653316

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Antimony	7440-36-0	ND	0.0200	0.00589	mg/L	04.10.14 22:08	U	1
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	04.10.14 22:08	U	1
Barium	7440-39-3	ND	0.0100	0.00135	mg/L	04.10.14 22:08	U	1
Beryllium	7440-41-7	ND	0.00400	0.000490	mg/L	04.10.14 22:08	U	1
Cadmium	7440-43-9	ND	0.0100	0.00243	mg/L	04.10.14 22:08	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	04.10.14 22:08	U	1
Lead	7439-92-1	ND	0.0100	0.00237	mg/L	04.10.14 22:08	U	1
Nickel	7440-02-0	ND	0.0100	0.00307	mg/L	04.10.14 22:08	U	1
Selenium	7782-49-2	ND	0.0300	0.00439	mg/L	04.10.14 22:08	U	1
Silver	7440-22-4	ND	0.0200	0.00559	mg/L	04.10.14 22:08	U	1

Sample Id: 653334-1-BLK Matrix: Water Sample Depth:

Lab Sample Id: 653334-1-BLK Date Collected: Date Received:

Analytical Method: TCLP Mercury by SW 7470A

Prep Method: SW7470P

DAB

Analyst: DAB % Moist: Tech:

Seq Number: 937576 Date Prep: 04.01.14 13.00

Subcontractor: SUB: E871002 Prep seq: 653334

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	ND	0.000200	0.0000291	mg/L	04.01.14 16:46	U	1





#### Conestoga Rovers & Associates, Midland, TX

Holly Energy RJU

Sample Id: 653470-1-BLK Matrix: Water Sample Depth:
Lab Sample Id: 653470-1-BLK Date Collected: Date Received:

Analytical Method: TCLP VOAs by EPA 8260B

Prep Method: 5030B

Analyst: MCH % Moist: Tech: MCH

Seq Number: 937788 Date Prep: 04.02.14 12.20

Subcontractor: SUB: E871002 Prep seq: 653470

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.0250	0.00102	mg/L	04.02.14 12:50	U	5
2-Butanone	78-93-3	ND	0.250	0.00660	mg/L	04.02.14 12:50	U	5
Carbon Tetrachloride	56-23-5	ND	0.0250	0.00140	mg/L	04.02.14 12:50	U	5
Chlorobenzene	108-90-7	ND	0.0250	0.00112	mg/L	04.02.14 12:50	U	5
Chloroform	67-66-3	ND	0.0250	0.00120	mg/L	04.02.14 12:50	U	5
1,4-Dichlorobenzene	106-46-7	ND	0.0250	0.000989	mg/L	04.02.14 12:50	U	5
1,2-Dichloroethane	107-06-2	ND	0.0250	0.000790	mg/L	04.02.14 12:50	U	5
1,1-Dichloroethene	75-35-4	ND	0.0250	0.00136	mg/L	04.02.14 12:50	U	5
Tetrachloroethylene	127-18-4	ND	0.0250	0.00115	mg/L	04.02.14 12:50	U	5
Trichloroethene	79-01-6	ND	0.0250	0.00192	mg/L	04.02.14 12:50	U	5
Vinyl Chloride	75-01-4	ND	0.0100	0.00146	mg/L	04.02.14 12:50	U	5

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	104	75 - 131	%		
1,2-Dichloroethane-D4	112	63 - 144	%		
Toluene-D8	98	80 - 117	%		
4-Bromofluorobenzene	97	74 - 124	%		





#### Conestoga Rovers & Associates, Midland, TX

Holly Energy RJU

Sample Id: 653536-1-BLK Matrix: Water Sample Depth:

Lab Sample Id: 653536-1-BLK Date Collected: Date Received:

Analytical Method: TCLP SVOCs by EPA 8270C

Prep Method: 3510C

Analyst: PKH % Moist:

Tech: PKH

Seq Number: 937957 Date Prep: 04.05.14 10.00

Subcontractor: SUB: E871002 Prep seq: 653536

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
1,4-Dichlorobenzene	106-46-7	ND	0.00500	0.000947	mg/L	04.07.14 12:19	U	1
2,4,5-Trichlorophenol	95-95-4	ND	0.00500	0.000893	mg/L	04.07.14 12:19	U	1
2,4,6-Trichlorophenol	88-06-2	ND	0.00500	0.00109	mg/L	04.07.14 12:19	U	1
2,4-Dinitrotoluene	121-14-2	ND	0.00500	0.000767	mg/L	04.07.14 12:19	U	1
2-methylphenol	95-48-7	ND	0.00500	0.000851	mg/L	04.07.14 12:19	U	1
3&4-Methylphenol	15831-10-4	ND	0.00500	0.000839	mg/L	04.07.14 12:19	U	1
Hexachlorobenzene	118-74-1	ND	0.00500	0.000902	mg/L	04.07.14 12:19	U	1
Hexachlorobutadiene	87-68-3	ND	0.00500	0.000989	mg/L	04.07.14 12:19	U	1
Hexachloroethane	67-72-1	ND	0.00500	0.00103	mg/L	04.07.14 12:19	U	1
Nitrobenzene	98-95-3	ND	0.00500	0.00102	mg/L	04.07.14 12:19	U	1
Pentachlorophenol	87-86-5	ND	0.0100	0.000522	mg/L	04.07.14 12:19	U	1
Pyridine	110-86-1	ND	0.0100	0.000741	mg/L	04.07.14 12:19	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
2-Fluorophenol	65	30 - 100	%		
Phenol-d6	48	15 - 94	%		
Nitrobenzene-d5	95	46 - 111	%		
2-Fluorobiphenyl	98	44 - 117	%		
2,4,6-Tribromophenol	93	48 - 117	%		
Terphenyl-D14	109	46 - 126	%		

Sample Id: 937681-1-BLK Matrix: Solid Sample Depth:

Lab Sample Id: 937681-1-BLK Date Collected: Date Received:

Analytical Method: Reactive Sulfide by SW 9030B

Prep Method:

Analyst: DHE % Moist: Tech: DHE

Seq Number: 937681 Date Prep: Subcontractor: SUB: E871002 Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Sulfide	18496-25-8	ND	50.0	6.72	mg/kg	04.02.14 16:55	U	1





#### Conestoga Rovers & Associates, Midland, TX

Holly Energy RJU

Sample Id: 937689-1-BLK Matrix: Solid Sample Depth:
Lab Sample Id: 937689-1-BLK Date Collected: Date Received:

Analytical Method: Reactive Cyanide by EPA 9010B

Prep Method:

Analyst: BFO % Moist: Tech: BFO

Seq Number: 937689 Date Prep: Subcontractor: SUB: E871002 Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Cyanide	57-12-5	ND	0.200	0.176	mg/kg	04.02.14 12:12	U	1





Analytical Method : Reactive Cyanide by EPA 9010B Client : Conestoga Rovers & Associates

Work Order #: **482259** Project ID: <u>086361</u>

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Day)	Time Held Extracte d (Day	Date Analyzed	Max Holding Time Analyzed (Day)	Time Held Analyzed ( <b>Day</b> )	Q
Waste Profile	Mar. 26, 2014	Mar. 28, 2014				Apr.2, 2014	14	7	P





Analytical Method : Percent Moisture	Client: Conestoga Rovers & Associates
Work Order #: <b>482259</b>	Project ID: 086361

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracte d (Days	Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
Waste Profile	Mar. 26, 2014	Mar. 28, 2014			]	Mar.31, 2014	45	5	P





Analytical Method : Flash Point (CC) SW-846 1010 Client : Conestoga Rovers & Associates

Work Order #: **482259** Project ID: <u>086361</u>

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracte d (Days		Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
Waste Profile	Mar. 26, 2014	Mar. 28, 2014				Apr.3, 2014	30	8	P





Analytical Method : TCLP Metals by SW846 6010B Client : Conestoga Rovers & Associates

	Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracte d (Days	,	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
1	Waste Profile	Mar. 26, 2014	Mar. 28, 2014	Apr. 1, 2014	180	6	Apr.10, 2014	180	9	P





Analytical Method : TCLP Mercury by SW 7470A Client : Conestoga Rovers & Associates

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracte d (Days	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
Waste Profile	Mar. 26, 2014	Mar. 28, 2014				Apr.1, 2014	28	6	P





Analytical Method : TCLP VOAs by EPA 8260B Client : Conestoga Rovers & Associates

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracte d (Days	,	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
Waste Profile	Mar. 26, 2014	Mar. 28, 2014				Apr.2, 2014	14	7	P





Analytical Method : BTEX by SW 8260B Client : Conestoga Rovers & Associates

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracte d (Days	Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
Waste Profile	Mar. 26, 2014	Mar. 28, 2014				Apr.1, 2014	14	6	P





Analytical Method : TCLP SVOCs by EPA 8270C Client : Conestoga Rovers & Associates

	Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracte d (Days	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
W	aste Profile	Mar. 26, 2014	Mar. 28, 2014	Apr. 5, 2014	7	10	Apr.7, 2014	40	2	F





Analytical Method : Reactive Sulfide by SW 9030B Client : Conestoga Rovers & Associates

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracte d (Days	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
Waste Profile	Mar. 26, 2014	Mar. 28, 2014				Apr.2, 2014	14	7	P





Analytical Method : Soil pH by EPA 9045C Client : Conestoga Rovers & Associates

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracte d (Days	_	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
Waste Profile	Mar. 26, 2014	Mar. 28, 2014				Apr.1, 2014	28	6	P





Analytical Method : TPH by Texas1005	Client: Conestoga Rovers & Associates
Work Order #: 482259	Project ID: 086361

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracte d (Days	,	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
Waste Profile	Mar. 26, 2014	Mar. 28, 2014	Mar. 31, 2014	14	5	Mar.31, 2014	14	0	P

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



### Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to 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 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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6017 Financial Drive, Norcross, GA 30071	(770) 449-8800	(770) 449-5477
3725 E. Atlanta Ave, Phoenix, AZ 85040	(602) 437-0330	



Analytical Method:	Percent Moisture		Batch #:	937443	
Project Name:	Holly Energy RJU		Project ID:	086361	
Client Name:	Conestoga Rovers & Ass	ociates	WO Number:	482259	
Client Sar	nple Id	Lab Sample Id		QC Types	
Waste Prof	file	482259-001		SMP	
		482259-001 D	_	MD	
		937443-1-BLK		BLK	•



Analytical Method:	TPH by Texas1005		Batch #:	937459
Project Name:	Holly Energy RJU		Project ID:	086361
Client Name:	Conestoga Rovers & Associ	ciates	WO Number:	482259
Client San	-	Lab Sample Id		QC Types
Waste Prof	ile	482259-001		SMP
Waste Prof	ile DL	482259-001		DL
		482186-001 S		MS
		482186-001 SD		MSD
		653242-1-BKS		BKS
		653242-1-BLK		BLK
		653242-1-BSD		BSD



Analytical Method:	BTEX by SW 8260B		Batch #:	937534
Project Name:	Holly Energy RJU		Project ID:	086361
Client Name:	Conestoga Rovers & Associ	ciates	WO Number:	482259
Client Sai	mple Id	Lab Sample	Id	QC Types
Waste Pro	file	482259-001		SMP
Waste Pro	file DL	482259-001		DL
		482288-001	S	MS
		482288-001	SD	MSD
		653312-1-BI	KS	BKS
		653312-1-BI	LK	BLK



Analytical Method:	Soil pH by EPA 9045C		Batch #:	937540	
Project Name:	Holly Energy RJU		Project ID:	086361	
Client Name:	Conestoga Rovers & Associa	ates	WO Number:	482259	
<b>Client Sam</b> Waste Prof	•	<b>Lab Sample</b> 482259-001	· Id	QC Types	
waste Pioi	ille	482259-001	D	SMP MD	



Analytical Method:	TCLP Mercury by SW 74	-70A	Batch #:	937576	
Project Name:	Holly Energy RJU	_	Project ID:	086361	
Client Name:	Conestoga Rovers & Asso	ociates	WO Number:	482259	
Client Sai	mple Id	Lab Sample Id		QC Types	
Waste Pro	file	482259-001		SMP	
	_	482140-001 S	<u> </u>	MS	
	_	482140-001 SD		MSD	
		653334-1-BKS		BKS	
		653334-1-BLK		BLK	
		653334-1-BSD		BSD	



Analytical Method:	Reactive Sulfide by	SW 9030B	Batch #:	937681	
Project Name:	Holly Energy RJU	_	Project ID:	086361	
Client Name:	Conestoga Rovers &	Associates	WO Number:	482259	
Client Sar	mple Id	Lab Samp	le Id	QC Types	
Waste Pro	file	482259-00	1	SMP	
		482158-00	1 D	MD	
	_	937681-1-1	BKS	BKS	
		937681-1-1	BLK	BLK	_
		937681-1-1	BSD	BSD	_



Analytical Method:	Reactive Cyanide by El	PA 9010B	Batch #:	937689	
Project Name:	Holly Energy RJU		Project ID:	086361	
Client Name:	Conestoga Rovers & A	ssociates	WO Number:	482259	_
Client Sar	mple Id	Lab Sample Id		QC Types	
Waste Prof	file	482259-001		SMP	_
		482158-001 D		MD	
		937689-1-BKS		BKS	
		937689-1-BLK	· · · · · · · · · · · · · · · · · · ·	DI K	



Analytical Method:	Flash Point (CC) SW-8	46 1010	Batch #:	937776	
Project Name:	Holly Energy RJU		Project ID:	086361	
<u> </u>	ssociates	WO Number:	482259		
Client Sar	nple Id	Lab Sample Id		QC Types	
Waste Prof	file	482259-001		SMP	
		482540-001 D		MD	
		937776-1-BKS		BKS	



Analytical Method:	TCLP VOAs by EPA 826	50B	Batch #:	937788	
Project Name:	Holly Energy RJU		Project ID:	086361	
Client Name:	Conestoga Rovers & Asse	ociates	WO Number:	482259	
Client Sar Waste Prof	-	<b>Lab Sample Id</b> 482259-001		QC Types SMP	
	_	482324-002 S		MS	
		482324-002 SD		MSD	
		653470-1-BKS		BKS	
		653470-1-BLK		BLK	



Analytical Method:	TCLP SVOCs by EPA 8	3270C	Batch #:	937957	
Project Name:	Holly Energy RJU	_	Project ID:	086361	
Client Name:	Conestoga Rovers & As	sociates	WO Number:	482259	
<b>Client Sar</b> Waste Pro	•	<b>Lab Sample Id</b> 482259-001		QC Types	
<del></del>		482636-001 S	_	MS	
		653536-1-BKS		BKS	
		653536-1-BLK		BLK	
		653536-1-BSD		BSD	



Analytical Method:	TCLP Metals by SW84	6 6010B	Batch #:	938325	
Project Name:	Holly Energy RJU		Project ID:	086361	
Client Name: Conestoga Rovers & A		Associates WO Number:		482259	
Client San	nple Id	Lab Sa	mple Id	QC Types	
Waste Prof	file	482259	-001	SMP	
		482140-	-001 S	MS	
		482140-	·001 SD	MSD	
		653316-	-1-BKS	BKS	
		653316-	-1-BLK	BLK	
		653316-	-1-BSD	BSD	



**Project Name: Holly Energy RJU** 

**Work Orders :** 482259, **Project ID:** 086361

Lab Batch #: 937534 Sample: 653312-1-BKS / BKS Batch: 1 Matrix: Solid

<b>Units:</b> mg/kg <b>Date Analyzed:</b> 04/01/14 11:54	SU	SURROGATE RECOVERY STUDY			
BTEX by SW 8260B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
Dibromofluoromethane	0.0509	0.0500	102	74-126	
1,2-Dichloroethane-D4	0.0481	0.0500	96	80-120	
Toluene-D8	0.0539	0.0500	108	73-132	
4-Bromofluorobenzene	0.0502	0.0500	100	58-152	

Lab Batch #: 937534 Sample: 653312-1-BLK / BLK Batch: 1 Matrix: Solid

<b>Units:</b> mg/kg <b>Date Analyzed:</b> 04/01/14 12:45	SU	RROGATE RI	ECOVERY S	STUDY	
BTEX by SW 8260B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0486	0.0500	97	74-126	
1,2-Dichloroethane-D4	0.0452	0.0500	90	80-120	
Toluene-D8	0.0509	0.0500	102	73-132	
4-Bromofluorobenzene	0.0520	0.0500	104	58-152	

**Lab Batch #:** 937534 **Sample:** 482288-001 S / MS **Batch:** 1 **Matrix:** Soil

<b>Units:</b> mg/kg <b>Date Analyzed:</b> 04/01/14 14:27	SURROGATE RECOVERY STUDY					
BTEX by SW 8260B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
Dibromofluoromethane	0.0552	0.0500	110	74-126		
1,2-Dichloroethane-D4	0.0530	0.0500	106	80-120		
Toluene-D8	0.0568	0.0500	114	73-132		
4-Bromofluorobenzene	0.0689	0.0500	138	58-152		

**Lab Batch #:** 937534 **Sample:** 482288-001 SD / MSD **Batch:** 1 **Matrix:** Soil

<b>Units:</b> mg/kg <b>Date Analyzed:</b> 04/01/14 14:53	SURROGATE RECOVERY STUDY				
BTEX by SW 8260B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0544	0.0500	109	74-126	
1,2-Dichloroethane-D4	0.0555	0.0500	111	80-120	
Toluene-D8	0.0559	0.0500	112	73-132	
4-Bromofluorobenzene	0.0705	0.0500	141	58-152	

<sup>\*</sup> Surrogate outside of Laboratory QC limits

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

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: Holly Energy RJU

 Work Orders: 482259,
 Project ID: 086361

 Lab Batch #: 937957
 Sample: 653536-1-BLK / BLK
 Batch: 1 Matrix: Water

SURROGATE RECOVERY STUDY Units: mg/L Date Analyzed: 04/07/14 12:19 True Amount Control **TCLP SVOCs by EPA 8270C Found** Amount Recovery Limits Flags [B] %R %R [A] [D] **Analytes** 2-Fluorophenol 32.6 50.0 65 30-100 Phenol-d6 23.9 50.0 48 15-94 Nitrobenzene-d5 47.6 95 50.0 46-111 2-Fluorobiphenyl 44-117 49.1 50.0 98 2,4,6-Tribromophenol 46.7 50.0 93 48-117 Terphenyl-D14 54.3 50.0 109 46-126

Lab Batch #: 937957 Sample: 653536-1-BKS / BKS Batch: 1 Matrix: Water

Units: mg/L	<b>Date Analyzed:</b> 04/07/14 12:43	SURROGATE RECOVERY STUDY				
TCLP S	VOCs by EPA 8270C	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Analytes			[2]		
2-Fluorophenol		32.7	50.0	65	30-100	
Phenol-d6		26.9	50.0	54	15-94	
Nitrobenzene-d5		48.3	50.0	97	46-111	
2-Fluorobiphenyl		48.9	50.0	98	44-117	
2,4,6-Tribromophenol		51.5	50.0	103	48-117	
Terphenyl-D14		53.3	50.0	107	46-126	

Lab Batch #: 937957 Sample: 653536-1-BSD / BSD Batch: 1 Matrix: Water

Units: mg/L	<b>Date Analyzed:</b> 04/07/14 13:06	SURROGATE RECOVERY STUDY				
TCLP SV	OCs by EPA 8270C	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
2-Fluorophenol		32.6	50.0	65	30-100	
Phenol-d6		26.0	50.0	52	15-94	
Nitrobenzene-d5		46.8	50.0	94	46-111	
2-Fluorobiphenyl		46.8	50.0	94	44-117	
2,4,6-Tribromophenol		48.1	50.0	96	48-117	
Terphenyl-D14		52.1	50.0	104	46-126	

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

<sup>\*</sup> Surrogate outside of Laboratory QC limits

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



**Project Name: Holly Energy RJU** 

**Work Orders**: 482259, **Project ID**: 086361

**Lab Batch #:** 937957 **Sample:** 482636-001 S / MS **Batch:** 1 **Matrix:** Soil

<b>Units:</b> mg/L <b>Date Analyzed:</b> 04/07/14 13:54	SURROGATE RECOVERY STUDY				
TCLP SVOCs by EPA 8270C	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
2-Fluorophenol	37.2	50.0	74	30-100	
Phenol-d6	39.2	50.0	78	15-94	
Nitrobenzene-d5	43.4	50.0	87	46-111	
2-Fluorobiphenyl	46.1	50.0	92	44-117	
2,4,6-Tribromophenol	51.4	50.0	103	48-117	
Terphenyl-D14	54.5	50.0	109	46-126	

Lab Batch #: 937788 Sample: 653470-1-BKS / BKS Batch: 1 Matrix: Water

<b>Units:</b> mg/L <b>Date Analyzed:</b> 04/02/14 11:05	SURROGATE RECOVERY STUDY				
TCLP VOAs by EPA 8260B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
Dibromofluoromethane	0.0482	0.0500	96	75-131	
1,2-Dichloroethane-D4	0.0442	0.0500	88	63-144	
Toluene-D8	0.0475	0.0500	95	80-117	
4-Bromofluorobenzene	0.0486	0.0500	97	74-124	

Lab Batch #: 937788 Sample: 653470-1-BLK / BLK Batch: 1 Matrix: Water

<b>Units:</b> mg/L <b>Date Analyzed:</b> 04/02/14 12:50	St	SURROGATE RECOVERY STUDY				
TCLP VOAs by EPA 8260B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
Dibromofluoromethane	0.0520	0.0500	104	75-131		
1,2-Dichloroethane-D4	0.0562	0.0500	112	63-144		
Toluene-D8	0.0492	0.0500	98	80-117		
4-Bromofluorobenzene	0.0484	0.0500	97	74-124		

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

<sup>\*</sup> Surrogate outside of Laboratory QC limits

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



**Project Name: Holly Energy RJU** 

Work Orders: 482259, Project ID: 086361

**Lab Batch #:** 937788 **Sample:** 482324-002 S / MS **Batch:** 1 **Matrix:** Solid

<b>Units:</b> mg/L <b>Date Analyzed:</b> 04/02/14 17:43	SURROGATE RECOVERY STUDY				
TCLP VOAs by EPA 8260B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
Dibromofluoromethane	0.0511	0.0500	102	75-131	
1,2-Dichloroethane-D4	0.0496	0.0500	99	63-144	
Toluene-D8	0.0471	0.0500	94	80-117	
4-Bromofluorobenzene	0.0526	0.0500	105	74-124	

**Lab Batch #:** 937788 **Sample:** 482324-002 SD / MSD **Batch:** 1 **Matrix:** Solid

Units: mg/L Date Analyzed: 04/02/14 18	8:09 SU	SURROGATE RECOVERY STUDY				
TCLP VOAs by EPA 8260B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
Dibromofluoromethane	0.0484	0.0500	97	75-131		
1,2-Dichloroethane-D4	0.0475	0.0500	95	63-144		
Toluene-D8	0.0485	0.0500	97	80-117		
4-Bromofluorobenzene	0.0513	0.0500	103	74-124		

Lab Batch #: 937459 Sample: 653242-1-BLK / BLK Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 03/31/14 17:46	SU	SURROGATE RECOVERY STUDY				
TPH by Texas1005	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	88.7	100	89	70-135		
o-Terphenyl	45.0	50.0	90	70-130		

Lab Batch #: 937459 Sample: 653242-1-BKS / BKS Batch: 1 Matrix: Solid

<b>Units:</b> mg/kg <b>Date Analyzed:</b> 03/31/14 18:05	SURROGATE RECOVERY STUDY				
TPH by Texas1005	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	93.3	100	93	70-135	
o-Terphenyl	48.0	50.0	96	70-130	

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

<sup>\*</sup> Surrogate outside of Laboratory QC limits

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



**Project Name: Holly Energy RJU** 

**Work Orders :** 482259, **Project ID:** 086361

Lab Batch #: 937459 Sample: 653242-1-BSD / BSD Batch: 1 Matrix: Solid

<b>Units:</b> mg/kg <b>Date Analyzed:</b> 03/31/14 18:24	SU	RROGATE RE	ECOVERY	STUDY	
TPH by Texas1005	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	93.2	100	93	70-135	
o-Terphenyl	46.8	50.0	94	70-130	

<b>Units:</b> mg/kg <b>Date Analyzed:</b> 03/31/14 19:21	SU	RROGATE RI	ECOVERY S	STUDY	
TPH by Texas1005  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.9	99.7	93	70-135	
o-Terphenyl	47.3	49.9	95	70-130	

<b>Units:</b> mg/kg <b>Date Analyzed:</b> 03/31/14 19:40	SU	RROGATE RI	ECOVERY S	STUDY	
TPH by Texas1005	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	93.3	99.6	94	70-135	
o-Terphenyl	47.5	49.8	95	70-130	

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

<sup>\*</sup> Surrogate outside of Laboratory QC limits

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



# **Blank Spike Recovery**

**Project Name: Holly Energy RJU** 



Work Order #: 482259 Project ID: 086361

 Lab Batch #:
 937534
 Sample: 653312-1-BKS
 Matrix: Solid

 Date Analyzed:
 04/01/2014
 Date Prepared: 04/01/2014
 Analyst: SAD

Reporting Units: mg/kg Batch #: 1 BLANK /BLANK SPIKE RECOVERY STUDY

BTEX by SW 8260B	Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags
Analytes	[74]	[13]	[C]	[D]	7010	
Benzene	< 0.000192	0.100	0.108	108	62-132	

 Lab Batch #:
 937689
 Sample: 937689-1-BKS
 Matrix: Solid

 Date Analyzed:
 04/02/2014
 Date Prepared: 04/02/2014
 Analyst: BFO

Reporting Units: mg/kg Batch #: 1 BLANK /BLANK SPIKE RECOVERY STUDY

Reactive Cyanide by EPA 9010B	Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags
Analytes			[C]	[D]		
Cyanide	<7.04	2000	2350	118	60-120	

 Lab Batch #:
 937788
 Sample: 653470-1-BKS
 Matrix: Water

 Date Analyzed:
 04/02/2014
 Date Prepared: 04/02/2014
 Analyst: MCH

Reporting Units: mg/L Batch #: 1 BLANK /BLANK SPIKE RECOVERY STUDY

TCLP VOAs by EPA 8260B  Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Benzene	< 0.00102	0.250	0.219	88	68-123	
2-Butanone	< 0.00660	0.500	0.424	85	49-135	
Carbon Tetrachloride	< 0.00140	0.250	0.222	89	68-135	
Chlorobenzene	< 0.00112	0.250	0.230	92	78-124	
Chloroform	< 0.00120	0.250	0.213	85	71-119	
1,4-Dichlorobenzene	< 0.000989	0.250	0.217	87	80-119	
1,2-Dichloroethane	< 0.000790	0.250	0.220	88	64-130	
1,1-Dichloroethene	< 0.00136	0.250	0.214	86	68-116	
Tetrachloroethylene	< 0.00115	0.250	0.206	82	79-122	
Trichloroethene	< 0.00192	0.250	0.216	86	74-123	
Vinyl Chloride	< 0.00146	0.250	0.198	79	59-124	





**Project Name: Holly Energy RJU** 

Work Order #: 482259 Project ID: 086361

Analyst: DHE Date Prepared: 04/02/2014 Date Analyzed: 04/02/2014

**Lab Batch ID:** 937681 **Sample:** 937681-1-BKS **Batch #:** 1 **Matrix:** Solid

Units:	mg/kg	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Reactive Sulfide by SW 9030B  Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Sulfide	<6.72	20000	19600	98	20000	19200	96	2	60-120	20	

**Analyst:** DAB **Date Prepared:** 04/01/2014 **Date Analyzed:** 04/01/2014

**Lab Batch ID:** 937576 **Sample:** 653334-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TCLP Mercury by SW 7470A	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Mercury	<0.0000291	0.00200	0.00198	99	0.00200	0.00195	98	2	80-120	20	





**Project Name: Holly Energy RJU** 

Work Order #: 482259 Project ID: 086361

 Analyst:
 MKO
 Date Prepared:
 04/01/2014
 Date Analyzed:
 04/10/2014

Lab Batch ID: 938325Sample: 653316-1-BKSBatch #: 1Matrix: Water

#### Units: mg/L BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TCLP Metals by SW846 6010B  Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Antimony	< 0.00589	1.00	1.10	110	1.00	1.10	110	0	80-120	20	
Arsenic	< 0.00550	1.00	1.06	106	1.00	1.05	105	1	80-120	20	
Barium	< 0.00135	1.00	1.05	105	1.00	1.04	104	1	80-120	20	
Beryllium	< 0.000490	1.00	1.07	107	1.00	1.05	105	2	80-120	20	
Cadmium	< 0.00243	1.00	1.04	104	1.00	1.04	104	0	80-120	20	
Chromium	< 0.000811	1.00	1.09	109	1.00	1.09	109	0	80-120	20	
Lead	< 0.00237	1.00	1.10	110	1.00	1.10	110	0	80-120	20	
Nickel	< 0.00307	1.00	1.11	111	1.00	1.10	110	1	80-120	20	
Selenium	< 0.00439	1.00	1.07	107	1.00	1.06	106	1	80-120	20	
Silver	< 0.00559	0.500	0.512	102	0.500	0.475	95	7	80-120	20	





**Project Name: Holly Energy RJU** 

Work Order #: 482259 Project ID: 086361

Analyst: PKH Date Prepared: 04/05/2014 Date Analyzed: 04/07/2014

Lab Batch ID: 937957Sample: 653536-1-BKSBatch #: 1Matrix: Water

#### Units: mg/L BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TCLP SVOCs by EPA 8270C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		. ,			[]		3				
1,4-Dichlorobenzene	< 0.000947	0.0500	0.0420	84	0.0500	0.0423	85	1	37-111	30	
2,4,5-Trichlorophenol	< 0.000893	0.0500	0.0515	103	0.0500	0.0496	99	4	39-125	30	
2,4,6-Trichlorophenol	< 0.00109	0.0500	0.0511	102	0.0500	0.0490	98	4	42-125	30	
2,4-Dinitrotoluene	< 0.000767	0.0500	0.0512	102	0.0500	0.0507	101	1	41-128	30	
2-methylphenol	< 0.000851	0.0500	0.0404	81	0.0500	0.0403	81	0	36-105	30	
3&4-Methylphenol	< 0.000839	0.0500	0.0389	78	0.0500	0.0388	78	0	35-96	30	
Hexachlorobenzene	< 0.000902	0.0500	0.0495	99	0.0500	0.0477	95	4	39-128	30	
Hexachlorobutadiene	< 0.000989	0.0500	0.0452	90	0.0500	0.0454	91	0	31-120	30	
Hexachloroethane	< 0.00103	0.0500	0.0425	85	0.0500	0.0429	86	1	37-109	30	
Nitrobenzene	< 0.00102	0.0500	0.0506	101	0.0500	0.0513	103	1	37-114	30	
Pentachlorophenol	< 0.000522	0.0500	0.0395	79	0.0500	0.0381	76	4	10-137	40	
Pyridine	< 0.000741	0.0500	0.0222	44	0.0500	0.0197	39	12	16-135	40	





**Project Name: Holly Energy RJU** 

Work Order #: 482259 Project ID: 086361

Analyst: FOV Date Prepared: 03/31/2014 Date Analyzed: 03/31/2014

**Lab Batch ID:** 937459 **Sample:** 653242-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by Texas1005  Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	751	75	1000	748	75	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	974	97	1000	976	98	0	70-135	35	



## Form 3 - MS Recoveries

**Project Name: Holly Energy RJU** 



**Work Order #:** 482259

**Lab Batch #:** 937957 **Project ID:** 086361

 Date Analyzed:
 04/07/2014
 Date Prepared:
 04/05/2014
 Analyst:
 PKH

 QC- Sample ID:
 482636-001 S
 Batch #:
 1
 Matrix:
 Soil

Reporting Units: mg/L

Reporting Units: mg/L	MATRIX / MATRIX SPIKE RECOVERY STUDY									
TCLP SVOCs by SW-846 8270C  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag				
1,4-Dichlorobenzene	< 0.00474	0.250	0.182	73	37-111					
2,4,5-Trichlorophenol	< 0.00447	0.250	0.259	104	39-125					
2,4,6-Trichlorophenol	< 0.00543	0.250	0.243	97	42-125					
2,4-Dinitrotoluene	< 0.00384	0.250	0.251	100	41-128					
2-methylphenol	< 0.00426	0.250	0.206	82	36-105					
3&4-Methylphenol	< 0.00420	0.250	0.216	86	35-96					
Hexachlorobenzene	< 0.00451	0.250	0.239	96	39-128					
Hexachlorobutadiene	< 0.00495	0.250	0.196	78	31-120					
Hexachloroethane	< 0.00514	0.250	0.180	72	37-109					
Nitrobenzene	< 0.00508	0.250	0.236	94	37-114					
Pentachlorophenol	< 0.00261	0.250	0.244	98	10-137					
Pyridine	< 0.00370	0.250	0.137	55	16-135					

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

BRL - Below Reporting Limit





**Project Name: Holly Energy RJU** 

Work Order #: 482259 Project ID: 086361

**Lab Batch ID:** 937534 **QC- Sample ID:** 482288-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04/01/2014 Date Prepared: 04/01/2014 Analyst: SAD

Reporting Units: mg/kg MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by SW 8260B  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	< 0.000229	0.119	0.141	118	0.118	0.131	111	7	62-132	25	

**Lab Batch ID:** 937576 **QC- Sample ID:** 482140-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04/01/2014 Date Prepared: 04/01/2014 Analyst: DAB

Reporting Units: mg/L MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCLP Mercury by SW 7470A  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury	< 0.0000291	0.00200	0.00200	100	0.00200	0.00195	98	3	75-125	20	





**Project Name: Holly Energy RJU** 

Work Order #: 482259 Project ID: 086361

**Lab Batch ID:** 938325 **QC- Sample ID:** 482140-001 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/L MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCLP Metals by SW846 6010B  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Antimony	< 0.0294	5.00	5.40	108	5.00	5.34	107	1	80-120	20	
Arsenic	< 0.0275	5.00	5.35	107	5.00	5.30	106	1	80-120	20	
Barium	0.684	5.00	5.97	106	5.00	5.91	105	1	80-120	20	
Beryllium	< 0.00245	5.00	5.34	107	5.00	5.32	106	0	80-120	20	
Cadmium	< 0.0122	5.00	5.25	105	5.00	5.21	104	1	80-120	20	
Chromium	0.0120	5.00	5.35	107	5.00	5.35	107	0	80-120	20	
Lead	< 0.0118	5.00	5.35	107	5.00	5.31	106	1	80-120	20	
Nickel	0.0766	5.00	5.55	109	5.00	5.51	109	1	80-120	20	
Selenium	< 0.0219	5.00	5.44	109	5.00	5.38	108	1	80-120	20	
Silver	0.0529	2.50	2.46	96	2.50	2.36	92	4	80-120	20	





**Project Name: Holly Energy RJU** 

**Work Order #:** 482259 **Project ID:** 086361

**Lab Batch ID:** 937788 **QC- Sample ID:** 482324-002 S **Batch #:** 1 **Matrix:** Solid

Reporting Units: mg/L MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCLP VOAs by EPA 8260B  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	< 0.00102	0.250	0.199	80	0.250	0.214	86	7	66-142	25	
2-Butanone	< 0.00660	0.500	0.453	91	0.500	0.449	90	1	60-140	25	
Carbon Tetrachloride	< 0.00140	0.250	0.205	82	0.250	0.215	86	5	62-125	25	
Chlorobenzene	< 0.00112	0.250	0.197	79	0.250	0.213	85	8	60-133	25	
Chloroform	< 0.00120	0.250	0.201	80	0.250	0.216	86	7	70-130	25	
1,4-Dichlorobenzene	< 0.000989	0.250	0.201	80	0.250	0.206	82	2	75-125	25	
1,2-Dichloroethane	< 0.000790	0.250	0.215	86	0.250	0.220	88	2	68-127	25	
1,1-Dichloroethene	< 0.00136	0.250	0.164	66	0.250	0.206	82	23	59-172	25	
Tetrachloroethylene	< 0.00115	0.250	0.174	70	0.250	0.184	74	6	71-125	25	X
Trichloroethene	< 0.00192	0.250	0.193	77	0.250	0.204	82	6	62-137	25	
Vinyl Chloride	< 0.00146	0.250	0.163	65	0.250	0.175	70	7	60-140	25	

**Lab Batch ID:** 937459 **QC- Sample ID:** 482186-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 03/31/2014 Date Prepared: 03/31/2014 Analyst: FOV

Reporting Units: mg/kg MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by Texas1005  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<29.9	2000	1500	75	1990	1540	77	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<29.9	2000	1950	98	1990	2110	106	8	70-135	35	

Final 1.000



## **Sample Duplicate Recovery**



**Project Name: Holly Energy RJU** 

**Work Order #:** 482259

**Lab Batch #:** 937776 **Project ID:** 086361

 Date Analyzed:
 04/03/2014 11:40
 Date Prepared:
 04/03/2014
 Analyst: DHE

 QC- Sample ID:
 482540-001 D
 Batch #:
 1
 Matrix: Soil

Reporting Units: Deg F	SAMPLE/SAMPLE DUPLICATE RECOVERY									
Flash Point (CC) SW-846 1010	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag					
Analyte		[13]								
Flash Point	>180	>180	0	25	U					

**Lab Batch #:** 937443

 Date Analyzed:
 03/31/2014 17:02
 Date Prepared:
 03/31/2014
 Analyst: DHE

 QC- Sample ID:
 482259-001 D
 Batch #:
 1
 Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY **Reporting Units: %** Parent Sample Sample Control **Percent Moisture** RPD **Duplicate** Limits Result Flag Result %RPD [A] [B] Analyte Percent Moisture 4.47 3.94 13

**Lab Batch #:** 937689

 Date Analyzed:
 04/02/2014 12:12
 Date Prepared:
 04/02/2014
 Analyst:
 BFO

 QC- Sample ID:
 482158-001 D
 Batch #:
 1
 Matrix:
 Soil

Reporting Units: mg/kg SAMPLE / SAMPLE DUPLICATE RECOVERY Sample Control Reactive Cyanide by EPA 9010B Parent Sample **Duplicate RPD** Limits Result Flag Result %RPD [A] [B] Analyte Cyanide U < 0.176 < 0.176 20

**Lab Batch #:** 937681

 Date Analyzed:
 04/02/2014 16:55
 Date Prepared:
 04/02/2014
 Analyst: DHE

 QC- Sample ID:
 482158-001 D
 Batch #:
 1
 Matrix: Soil

Reporting Units: mg/kg	SAMPLE / SAMPLE DUPLICATE RECOVERY								
Reactive Sulfide by SW 9030B  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag				
Sulfide	<6.72	<6.72	0	20	U				

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

Page 50 of 53

Final 1.000



# **Sample Duplicate Recovery**



**Project Name: Holly Energy RJU** 

Work Order #: 482259

**Lab Batch #:** 937540 **Project ID:** 086361

 Date Analyzed:
 04/01/2014 16:09
 Date Prepared:
 04/01/2014
 Analyst: DHE

 QC- Sample ID:
 482266-001 D
 Batch #:
 1
 Matrix: Soil

Reporting Units: SU	SAMPLE / SAMPLE DUPLICATE RECOVERY								
Soil pH by EPA 9045C  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag				
рН	7.87	7.89	0	20					

2 1		10	9	00	7	6	<b>O</b> 1	4	ω	2	_													-
3)	Relinquished by		8				. Asses				Waste Profile 1	Sample ID	Sampler Name Norther		Special DLs (GW DW QAPP	QAPP Per-Contract CLP	Reg Program: UST DR	Quote/Pricing:	ting	E-mail Results to ロ ハ Knowしら	Proj. State: (TX) AL, FE,/G/NJ, PA, SC, TN, UT Other	, P	Company-City CPA	XENCO
*	(Initials and Sign)										5/26/14	Sampling Date	Knowles		APP MDLs RLs	AGCEE NAVY	DRY-CLEAN Land-Fill Waste-Disp		☐ Inc. Invoice wi	S C C A WOL		Location Previously	n	4143 Greenbriar Drive, Stafford, TX 77477 <b>281-240-4200</b> 5332, Blackberry Drive, San Antonio, TX 78238 <b>210-509-3</b>
87.5	Date & T										040	Time	Signature		See Lab PM	DOE DOD	-ill Waste-L	P.O. No:	Invoice with Final Report	orld.co	Proj. Manager (PM)	Previously done at XENCO		/e, Stafford, TX ve, San Antonio
4)			1								5	Depth ft' In" m Matrix Composite	Roth		Included	D USACE OTHER	Disp NPDES			3	ger (PM)	NCO	Phone 45	.77477 <b>281.</b> 5, TX 78238 <b>2</b>
Am	Relinquished to (Initials and Sign)		)			4 2					<b>-</b> 32	# Containers  Container Size	TOP		Call PM)	OTHER:	DW TRRP	☐ Call	☐ Invoice must have a P.O.	Fax No:	then k	Project ID 08636	1. 686-0086	-240-4200 210-509-3334
S.C.	d (Initials ar							F			J. J.	Container Type Preservatives			(4)		٦	Call for P.O.	a P.O.	10	Knowles	6	08le	
	nd Sign)											VOA: PP TCL	D\ 3310	N A	TBE Appd 3270	Et0 x-1		Oxyg dx-2	VOH CALL			TAT: ASAP 5h 12h It is typically 5-7 Wor	Lab Only:	9701-Harry Hines Blv 12600 West I-20 East
101	20											TX-1005 DRO SVOCs: Full-Lis OC Pesticides		W	BN&	_	TCL s O	P P	Р Арр		CALL	P 5h 12h 24h / 5-7 Working D		- <u>O</u>
Unti	Time Tota		-								X	Metals: RCRA-8 SPLP TCLP (I	Estata	approximation (	_		-	_	. Appd: est. He			h 48h 3d 5d Days for level II		., Dallas, TX 75220 Odessa, TX 79765
erwise agreed I paid. Sample	Total Containers per COC:										XXX	BTEX- TPH-:	-5 5W	8	840 46	60°.	82 15	60				7d and	E.	214-902-0300 432-563-1800
s will be held	per COC:										X	TCLP-en	xtc Xt	720	ition	- (	Si Vo	1.)	Metal 13	<u>)</u> (1	1311)	<	0.000	300 Serial #:
30 days after	-																					21d Standard TAT is proje orking days for level III and	3 3	# 32
e Intellectual r final report i	Cooler Temp											TATASAP 5h Addn: PAH abov	12 'e		24h mg/L	48h W,			d 7d S High	10d hest Hi		project specific	48	2932
Otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless	2. HA	-										Hold Samples (S								pprove	Remarks	cific. a.	SAAS	Page \
SS																					arks		73	으

Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L) Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract. Committed to Excellence in Service and Quality

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hereby requested. Rush Charges and Collection Fees are pre-approved if needed.

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Page 52 of 53

Date

Addn:

Final 1.000

Rcv. by:

From:



Work Order #: 482259

## **XENCO Laboratories** Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 03/28/2014 04:15:00 PM

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)?	25	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	N/A	
#4 *Custody Seals intact on shipping container/ cooler?	N/A	
#5 Custody Seals intact on sample bottles?	N/A	
#6 *Custody Seals Signed and dated?	N/A	
#7 *Chain of Custody present?	Yes	
#8 Sample instructions complete on Chain of Custody?	Yes	
#9 Any missing/extra samples?	No	
#10 Chain of Custody signed when relinquished/ received?	Yes	
#11 Chain of Custody agrees with sample label(s)?	Yes	
#12 Container label(s) legible and intact?	Yes	
#13 Sample matrix/ properties agree with Chain of Custody?	Yes	
#14 Samples in proper container/ bottle?	Yes	
#15 Samples properly preserved?	N/A	
#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)?	N/A	
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	N/A	
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	N/A	

Must be completed for after	r-hours de	livery of samples prior to plac	ing in the refrigerator
Analyst:	PH Device	e/Lot#:	
Checklist comp	leted by:	Ruriko Konuma	Date: 03/28/2014
Checklist revie	ewed by:	Mus Moah  Kelsey Brooks	Date: 03/28/2014

# **Analytical Report 491109**

for

## **Conestoga Rovers & Associates**

Project Manager: Nathan Knowles

RJU South

086361

18-AUG-14

Collected By: Client





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

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054) New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135) Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

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

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

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

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

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





18-AUG-14

Project Manager: Nathan Knowles Conestoga Rovers & Associates 2135 S Loop 250 W Midland, TX 79703

Reference: XENCO Report No(s): 491109

**RJU South** 

Project Address: Loco Hills,NM

#### **Nathan Knowles:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 491109. 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. 491109 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, Hoah

**Kelsey Brooks** 

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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# **Sample Cross Reference 491109**



## Conestoga Rovers & Associates, Midland, TX

#### **RJU** South

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
DS #1-4'	S	08-07-14 14:15	- 4 ft	491109-001
DS #2-4'	S	08-07-14 14:20	- 4 ft	491109-002
DS #3-4'	S	08-07-14 14:25	- 4 ft	491109-003
DS #4-8'	S	08-07-14 14:27	- 8 ft	491109-004
DS #5-4'	S	08-07-14 14:30	- 4 ft	491109-005
DS #6-2'	S	08-07-14 14:33	- 2 ft	491109-006
DS #7-2'	S	08-07-14 14:39	- 2 ft	491109-007
DS #8-6'	S	08-07-14 14:42	- 6 ft	491109-008
DS #9-6'	S	08-07-14 14:45	- 6 ft	491109-009
DS #10-6'	S	08-07-14 14:47	- 6 ft	491109-010
DS #11-6'	S	08-07-14 14:50	- 6 ft	491109-011
DS #12-8'	S	08-07-14 14:52	- 8 ft	491109-012
DS #13-8'	S	08-07-14 14:55	- 8 ft	491109-013



#### **CASE NARRATIVE**



Client Name: Conestoga Rovers & Associates

Project Name: RJU South

 Project ID:
 086361
 Report Date:
 18-AUG-14

 Work Order Number(s):
 491109
 Date Received:
 08/08/2014

Sample rece	eipt non confo	rmances and	comments:			
Comple week	int non confe	bee seemen	aammanta r	an gampla.		
sampie rece	eipt non conic	rmances and	comments p	per sample:		
None						



## **Certificate of Analysis Summary 491109**

#### Conestoga Rovers & Associates, Midland, TX

**Project Name: RJU South** 



**Project Id:** 086361

Project Location: Loco Hills,NM

**Contact:** Nathan Knowles

**Date Received in Lab:** Fri Aug-08-14 11:10 am

**Report Date:** 18-AUG-14

**Project Manager:** Kelsey Brooks

								I Toject Ma	mager.	Keisey Diook	1.0		
	Lab Id:	491109-0	001	491109-0	02	491109-	003	491109-0	004	491109-	005	491109-	006
Analysis Requested	Field Id:	DS #1-	4'	DS #2-4	.'	DS #3-	-4'	DS #4-	8'	DS #5-	-4'	DS #6-	-2'
Analysis Requesieu	Depth:	4 ft		4 ft	4 ft		4 ft			4 ft		2 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	SOIL		SOIL	_
	Sampled:	Aug-07-14	14:15	Aug-07-14 1	4:20	Aug-07-14	14:25	Aug-07-14	14:27	Aug-07-14	14:30	Aug-07-14	14:33
BTEX by EPA 8021B	Extracted:	Aug-16-14	18:00	Aug-16-14 1	8:00	Aug-13-14	16:00	Aug-16-14	18:00	Aug-13-14	16:00	Aug-13-14	16:00
	Analyzed:	Aug-17-14	13:38	Aug-17-14 1	3:54	Aug-14-14	12:27	Aug-17-14	14:11	Aug-14-14	13:34	Aug-14-14	13:50
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.276	ND	0.279	ND	0.00556	0.224	0.0304	0.0572	0.00535	ND	0.00519
Toluene		7.32	0.552	10.1	0.557	ND	0.0111	4.34	0.0609	0.753	0.0107	0.0786	0.0104
Ethylbenzene		37.4	0.276	44.2	0.279	0.00974	0.00556	9.80	0.0304	1.55	0.00535	0.117	0.00519
m,p-Xylenes		40.4	0.552	48.4	0.557	0.0258	0.0111	8.16	0.0609	1.81	0.0107	1.24	0.0104
o-Xylene		20.2	0.276	20.7	0.279	0.00785	0.00556	3.93	0.0304	0.996	0.00535	0.633	0.00519
Total Xylenes		60.6	0.276	69.1	0.279	0.0337	0.00556	12.1	0.0304	2.81	0.00535	1.87	0.00519
Total BTEX		105	0.276	123	0.279	0.0434	0.00556	26.5	0.0304	5.17	0.00535	2.07	0.00519
Percent Moisture	Extracted:												
	Analyzed:	Aug-12-14	17:00	Aug-12-14 1	7:00	Aug-12-14	17:00	Aug-12-14	17:00	Aug-12-14	17:00	Aug-12-14	17:00
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		9.83	1.00	10.5	1.00	10.2	1.00	18.2	1.00	6.58	1.00	3.60	1.00
TPH By SW8015 Mod	Extracted:	Aug-13-14	10:00	Aug-13-14 1	0:00	Aug-13-14	10:00	Aug-13-14	10:00	Aug-13-14	10:00	Aug-13-14	10:00
	Analyzed:	Aug-13-14	19:35	Aug-13-14 2	20:00	Aug-13-14	20:25	Aug-13-14	20:52	Aug-13-14	21:18	Aug-13-14	21:43
	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		4480	82.9	3750	83.5	55.7	16.7	324	18.3	1290	80.1	762	77.7
C12-C28 Diesel Range Hydrocarbons		16100	82.9	13100	83.5	777	16.7	1180	18.3	8130	80.1	6090	77.7
C28-C35 Oil Range Hydrocarbons		440	82.9	316	83.5	23.9	16.7	35.6	18.3	205	80.1	166	77.7
Total TPH		21000	82.9	17200	83.5	857	16.7	1540	18.3	9630	80.1	7020	77.7

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

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Kelsey Brooks Project Manager



## **Certificate of Analysis Summary 491109**

#### Conestoga Rovers & Associates, Midland, TX

**Project Name: RJU South** 

TNI LyBORATORY

**Project Id:** 086361

Project Location: Loco Hills,NM

**Contact:** Nathan Knowles

Date Received in Lab: Fri Aug-08-14 11:10 am

**Report Date:** 18-AUG-14

**Project Manager:** Kelsey Brooks

								1 1 0 J c c c 1 1 1 1 1		IXCISCY DIOOK			
	Lab Id:	491109-	-007	491109-0	800	491109-0	009	491109-0	010	491109-0	)11	491109-0	012
Analysis Requested	Field Id:	DS #7	-2'	DS #8-	6'	DS #9-6	5'	DS #10	-6'	DS #11-	-6'	DS #12-	8'
inulysis Requesieu	Depth:	2 ft		6 ft		6 ft		6 ft		6 ft		8 ft	
	Matrix:	SOII	L	SOIL	,	SOIL		SOIL	,	SOIL		SOIL	
	Sampled:	Aug-07-14	14:39	Aug-07-14	14:42	Aug-07-14	14:45	Aug-07-14	14:47	Aug-07-14	14:50	Aug-07-14	14:52
BTEX by EPA 8021B	Extracted:	Aug-13-14	16:00	Aug-13-14	16:00	Aug-16-14	18:00	Aug-13-14	16:00	Aug-13-14	16:00	Aug-16-14	18:00
	Analyzed:	Aug-14-14	14:07	Aug-14-14	11:05	Aug-17-14	14:28	Aug-14-14	11:21	Aug-14-14	11:38	Aug-17-14	14:44
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		0.0198	0.00515	ND	0.00574	ND	0.287	ND	0.00640	ND	0.00550	2.18	0.313
Toluene		0.496	0.0103	ND	0.0115	3.54	0.574	ND	0.0128	ND	0.0110	56.2	0.626
Ethylbenzene		1.05	0.00515	ND	0.00574	9.48	0.287	ND	0.00640	ND	0.00550	98.2	0.313
m,p-Xylenes		1.17	0.0103	ND	0.0115	27.6	0.574	ND	0.0128	ND	0.0110	132	0.626
o-Xylene		1.24	0.00515	ND	0.00574	12.1	0.287	ND	0.00640	ND	0.00550	51.0	0.313
Total Xylenes		2.41	0.00515	ND	0.00574	39.7	0.287	ND	0.00640	ND	0.00550	183	0.313
Total BTEX		3.98	0.00515	ND	0.00574	52.7	0.287	ND	0.00640	ND	0.00550	340	0.313
Percent Moisture	Extracted:												
	Analyzed:	Aug-12-14	17:00	Aug-12-14	17:00	Aug-12-14	17:00	Aug-12-14	17:00	Aug-12-14	17:00	Aug-12-14	17:00
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		2.99	1.00	12.9	1.00	13.5	1.00	21.9	1.00	9.04	1.00	20.4	1.00
TPH By SW8015 Mod	Extracted:	Aug-13-14	10:00	Aug-13-14	10:00	Aug-13-14	12:00	Aug-13-14	12:00	Aug-13-14	12:00	Aug-13-14	12:00
	Analyzed:	Aug-13-14	1 22:08	Aug-13-14	22:33	Aug-13-14	22:29	Aug-13-14	22:53	Aug-13-14	23:17	Aug-13-14 2	23:41
	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		1290	77.2	ND	17.2	3210	86.4	ND	19.2	ND	16.4	4670	93.8
C12-C28 Diesel Range Hydrocarbons		8250	77.2	59.6	17.2	8060	86.4	ND	19.2	ND	16.4	9320	93.8
C28-C35 Oil Range Hydrocarbons		225	77.2	ND	17.2	ND	86.4	ND	19.2	ND	16.4	ND	93.8
Total TPH		9770	77.2	59.6	17.2	11300	86.4	ND	19.2	ND	16.4	14000	93.8

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

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Kelsey Brooks Project Manager



## **Certificate of Analysis Summary 491109**

#### Conestoga Rovers & Associates, Midland, TX



**Project Id:** 086361

**Project Name: RJU South** 

**Contact:** Nathan Knowles Project Location: Loco Hills,NM

Date Received in Lab: Fri Aug-08-14 11:10 am

**Report Date:** 18-AUG-14

**Project Manager:** Kelsev Brooks

			 	Project Manager:	Reisey Diooks	
	Lab Id:	491109-013				
Analysis Requested	Field Id:	DS #13-8'				
Analysis Requesieu	Depth:	8 ft				
	Matrix:	SOIL				
	Sampled:	Aug-07-14 14:55				
BTEX by EPA 8021B	Extracted:	Aug-16-14 18:00				
	Analyzed:	Aug-17-14 15:33				
	Units/RL:	mg/kg RL				
Benzene		ND 0.0283				
Toluene		3.73 0.0567				
Ethylbenzene		10.9 0.0283				
m,p-Xylenes		20.3 0.0567				
o-Xylene		9.08 0.0283				
Total Xylenes		29.4 0.0283				
Total BTEX		44.0 0.0283				
Percent Moisture	Extracted:					
	Analyzed:	Aug-12-14 17:00				
	Units/RL:	% RL				
Percent Moisture		12.2 1.00				
TPH By SW8015 Mod	Extracted:	Aug-13-14 12:00				
	Analyzed:	Aug-14-14 00:06				
	Units/RL:	mg/kg RL				
C6-C12 Gasoline Range Hydrocarbons		2000 85.3				
C12-C28 Diesel Range Hydrocarbons		5940 85.3				
C28-C35 Oil Range Hydrocarbons		ND 85.3	_	·		
Total TPH		7940 85.3				

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

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Kelsey Brooks Project Manager



### Flagging Criteria



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

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

**DL** Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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**Project Name: RJU South** 

Units:	mg/kg	<b>Date Analyzed:</b> 08/13/14 19:35	SU	RROGATE RI	ECOVERY S	STUDY	
	ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes			[-]		
1-Chloroocta	ine		120	99.7	120	70-135	
o-Terphenyl			57.9	49.9	116	70-135	

**Units:** mg/kg **Date Analyzed:** 08/13/14 20:00 SURROGATE RECOVERY STUDY **Amount** True Control TPH By SW8015 Mod Found Limits Flags Amount Recovery [A] [B] %R %R [D] **Analytes** 1-Chlorooctane 125 99.7 125 70-135 o-Terphenyl 57.1 49.9 114 70-135

**Lab Batch #:** 948074 **Sample:** 491109-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg Date Analyzed: 08/13/14 20:25 SURROGATE RECOVERY STUDY

TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	120	99.9	120	70-135	
o-Terphenyl	63.4	50.0	127	70-135	

Units:	mg/kg	<b>Date Analyzed:</b> 08/13/14 20:52	SURROGATE RECOVERY STUDY								
	ТРН	By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1-Chlorooct	ane		116	99.6	116	70-135					
o-Terpheny	1		63.0	49.8	127	70-135					

Units:	mg/kg	<b>Date Analyzed:</b> 08/13/14 21:18	SURROGATE RECOVERY STUDY							
	ТРН	By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooct	ane		110	99.8	110	70-135				
o-Terphenyl			40.6	49.9	81	70-135				

<sup>\*</sup> Surrogate outside of Laboratory QC limits

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

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



**Project Name: RJU South** 

Units:	mg/kg	<b>Date Analyzed:</b> 08/13/14 21:43	SU	RROGATE RI	ECOVERY S	STUDY	
	TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chloroocta	ane		121	99.9	121	70-135	
o-Terphenyl			42.5	50.0	85	70-135	

**Units:** mg/kg **Date Analyzed:** 08/13/14 22:08 SURROGATE RECOVERY STUDY **Amount** True Control TPH By SW8015 Mod Found Limits Flags Amount Recovery [A] [B] %R %R [D] **Analytes** 1-Chlorooctane 121 99.9 121 70-135 o-Terphenyl 70-135 61.3 50.0 123

Units: mg/kg Date Analyzed: 08/13/14 22:29 SURROGATE RECOVERY STUDY

TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	99.7	114	70-135	
o-Terphenyl	54.4	49.9	109	70-135	

Units:	mg/kg	<b>Date Analyzed:</b> 08/13/14 22:33	SURROGATE RECOVERY STUDY					
	ТРН	By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooc	etane		111	99.7	111	70-135		
o-Terpheny	yl		57.4	49.9	115	70-135		

Units:	mg/kg	<b>Date Analyzed:</b> 08/13/14 22:53	SURROGATE RECOVERY STUDY					
	ТРН	By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooct	tane		102	99.9	102	70-135		
o-Terpheny	1		51.3	50.0	103	70-135		

<sup>\*</sup> Surrogate outside of Laboratory QC limits

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

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



**Project Name: RJU South** 

Units:	Inits: mg/kg Date Analyzed: 08/13/14 23:17 SURROGATE RECOVERY STUDY							
	TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
		Analytes			[D]			
1-Chlorooct	ane		96.6	99.6	97	70-135		
o-Terphenyl			48.8	49.8	98	70-135		

**Units:** mg/kg **Date Analyzed:** 08/13/14 23:41 SURROGATE RECOVERY STUDY **Amount** True Control TPH By SW8015 Mod Found Limits Flags Amount Recovery [A] [B] %R %R [D] **Analytes** 1-Chlorooctane 106 99.6 106 70-135 o-Terphenyl 53.0 49.8 70-135 106

Units: mg/kg Date Analyzed: 08/14/14 00:06 SURROGATE RECOVERY STUDY

TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	99.9	102	70-135	
o-Terphenyl	38.4	50.0	77	70-135	

Units:	mg/kg	<b>Date Analyzed:</b> 08/14/14 11:05	SURROGATE RECOVERY STUDY					
	ВТЕ	X by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Difluoro	benzene		0.0263	0.0300	88	80-120		
4-Bromoflu	orobenzene		0.0266	0.0300	89	80-120		

**Lab Batch #:** 948194 **Sample:** 491109-010 / SMP **Batch:** 1 **Matrix:** Soil

Units:	mg/kg	<b>Date Analyzed:</b> 08/14/14 11:21	SURROGATE RECOVERY STUDY						
	ВТЕ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1,4-Difluorob	penzene		0.0279	0.0300	93	80-120			
4-Bromofluoi	robenzene		0.0279	0.0300	93	80-120			

<sup>\*</sup> Surrogate outside of Laboratory QC limits

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

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



**Project Name: RJU South** 

**Work Orders :** 491109, **Project ID:** 086361 **Lab Batch #:** 948194 **Sample:** 491109-011 / SMP **Batch:** 1 **Matrix:** Soil

Units:	Units: mg/kg Date Analyzed: 08/14/14 11:38 SURROGATE RECOVERY STUDY							
	ВТЕ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
		Analytes			[D]			
1,4-Difluorobenzene		0.0272	0.0300	91	80-120			
4-Bromofluo	orobenzene		0.0276	0.0300	92	80-120		

**Units:** mg/kg Date Analyzed: 08/14/14 12:27 SURROGATE RECOVERY STUDY **Amount** True Control BTEX by EPA 8021B Found Limits Flags Amount Recovery [A] [B] %R %R [D] **Analytes** 1,4-Difluorobenzene 0.0260 0.0300 87 80-120 4-Bromofluorobenzene 0.0284 0.0300 80-120 95

Units: mg/kg Date Analyzed: 08/14/14 13:34 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0296	0.0300	99	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

 Lab Batch #: 948194
 Sample: 491109-006 / SMP
 Batch: 1
 Matrix: Soil

Units:	mg/kg	<b>Date Analyzed:</b> 08/14/14 13:50	SURROGATE RECOVERY STUDY						
	вте	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
		Analytes			[D]				
1,4-Difluor	robenzene		0.0291	0.0300	97	80-120			
4-Bromoflu	uorobenzene		0.0309	0.0300	103	80-120			

Units:	mg/kg	<b>Date Analyzed:</b> 08/14/14 14:07	SURROGATE RECOVERY STUDY					
	ВТЕ	X by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Difluorober	nzene	Analytes	0.0286	0.0300	95	80-120		
4-Bromofluoro	benzene		0.0324	0.0300	108	80-120		

<sup>\*</sup> Surrogate outside of Laboratory QC limits

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

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



**Project Name: RJU South** 

nits: mg/kg Date Analyzed: 08/17/14 13:38 SURROGATE RECOVERY STUDY							
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1,4-Difluorobenzene	0.0277	0.0300	92	80-120			
4-Bromofluorobenzene	0.0304	0.0300	101	80-120			

**Units:** mg/kg Date Analyzed: 08/17/14 13:54 SURROGATE RECOVERY STUDY **Amount** True Control BTEX by EPA 8021B Found Limits Amount Recovery Flags [A] [B] %R %R [D] **Analytes** 1,4-Difluorobenzene 0.0280 0.0300 93 80-120 4-Bromofluorobenzene 0.0304 0.0300 80-120 101

Units: mg/kg Date Analyzed: 08/17/14 14:11 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0255	0.0300	85	80-120	
4-Bromofluorobenzene	0.0348	0.0300	116	80-120	

Units:	mg/kg	<b>Date Analyzed:</b> 08/17/14 14:28	SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B			Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
		Analytes			[D]				
1,4-Difluor	robenzene		0.0274	0.0300	91	80-120			
4-Bromofluorobenzene			0.0295	0.0300	98	80-120			

Units:	mg/kg	<b>Date Analyzed:</b> 08/17/14 14:44	SURROGATE RECOVERY STUDY						
	ВТЕ	X by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorobe	enzene	Timury tes	0.0242	0.0300	81	80-120			
4-Bromofluorobenzene			0.0295	0.0300	98	80-120			

<sup>\*</sup> Surrogate outside of Laboratory QC limits

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

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



**Project Name: RJU South** 

 Work Orders: 491109,
 Project ID: 086361

 Lab Batch #: 948394
 Sample: 491109-013 / SMP
 Batch: 1
 Matrix: Soil

Juits: mg/kg Date Analyzed: 08/17/14 15:33 SURROGATE RECOVERY STUDY								
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]					
1,4-Difluorobenzene	0.0255	0.0300	85	80-120				
4-Bromofluorobenzene	0.0303	0.0300	101	80-120				

Lab Batch #: 948074 Sample: 659934-1-BLK / BLK Batch: 1 Matrix: Solid

Units:	mg/kg	<b>Date Analyzed:</b> 08/13/14 10:49	SURROGATE RECOVERY STUDY					
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooc	etane	may us	120	100	120	70-135		
o-Terphenyl			57.6	50.0	115	70-135		

Lab Batch #: 948125 Sample: 659993-1-BLK/BLK Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 08/13/14 15:16 SURROGATE RECOVERY STUDY

TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	108	100	108	70-135	
o-Terphenyl	55.4	50.0	111	70-135	

Lab Batch #: 948194 Sample: 660025-1-BLK / BLK Batch: 1 Matrix: Solid

Units:	mg/kg	<b>Date Analyzed:</b> 08/13/14 18:00	SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B  Analytes			Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluor	obenzene	<del>-</del>	0.0289	0.0300	96	80-120			
4-Bromofluorobenzene			0.0274	0.0300	91	80-120			

Lab Batch #: 948394 Sample: 660143-1-BLK / BLK Batch: 1 Matrix: Solid

Units:	mg/kg	<b>Date Analyzed:</b> 08/17/14 05:39	SURROGATE RECOVERY STUDY						
	ВТЕ	X by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorobenzene			0.0296	0.0300	99	80-120			
4-Bromofluorobenzene			0.0263	0.0300	88	80-120			

<sup>\*</sup> Surrogate outside of Laboratory QC limits

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

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



**Project Name: RJU South** 

 Work Orders: 491109,
 Project ID: 086361

 Lab Batch #: 948074
 Sample: 659934-1-BKS / BKS
 Batch: 1
 Matrix: Solid

Units:	mg/kg Date Analyzed: 08/13/14 11:17 SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]			
1-Chlorooctane			118	100	118	70-135		
o-Terphenyl			64.7	50.0	129	70-135		

Lab Batch #: 948125 Sample: 659993-1-BKS / BKS Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 08/13/14 15:41 SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
		Analytes			[D]		
1-Chlorooc	ctane		120	100	120	70-135	
o-Terpheny	yl		64.1	50.0	128	70-135	

Lab Batch #: 948194 Sample: 660025-1-BKS / BKS Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 08/13/14 18:17 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0289	0.0300	96	80-120	
4-Bromofluorobenzene	0.0300	0.0300	100	80-120	

Lab Batch #: 948394 Sample: 660143-1-BKS / BKS Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 08/17/14 05:56 SURROGATE RECOVERY STUD							
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1,4-Difluorobenzene	0.0299	0.0300	100	80-120			
4-Bromofluorobenzene	0.0285	0.0300	95	80-120			

Lab Batch #: 948074 Sample: 659934-1-BSD / BSD Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 08/13/14 12:08 SURROGATE RECOVERY STUDY								
	ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
		Analytes			[D]			
1-Chlorooctane			130	100	130	70-135		
o-Terphenyl			63.1	50.0	126	70-135		

<sup>\*</sup> Surrogate outside of Laboratory QC limits

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

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



**Project Name: RJU South** 

 Work Orders: 491109,
 Project ID: 086361

 Lab Batch #: 948125
 Sample: 659993-1-BSD / BSD
 Batch: 1
 Matrix: Solid

Units:	mg/kg	<b>Date Analyzed:</b> 08/13/14 16:07	SURROGATE RECOVERY STUDY								
	ТРН І	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1-Chlorooct	ane		116	100	116	70-135					
o-Terphenyl			64.3	50.0	129	70-135					

Lab Batch #: 948194 Sample: 660025-1-BSD / BSD Batch: 1 Matrix: Solid

Units:	mg/kg	<b>Date Analyzed:</b> 08/13/14 18:33	SURROGATE RECOVERY STUDY								
	ВТЕ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
		Analytes			[D]						
1,4-Difluor	obenzene		0.0293	0.0300	98	80-120					
4-Bromoflu	orobenzene		0.0294	0.0300	98	80-120					

Lab Batch #: 948394 Sample: 660143-1-BSD / BSD Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 08/17/14 06:13 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0296	0.0300	99	80-120	
4-Bromofluorobenzene	0.0285	0.0300	95	80-120	

Units:	mg/kg	<b>Date Analyzed:</b> 08/13/14 15:05	SURROGATE RECOVERY STUDY								
	ТРН	By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1-Chlorooct	ane		118	99.8	118	70-135					
o-Terpheny			62.6	49.9	125	70-135					

Units:	mg/kg	<b>Date Analyzed:</b> 08/13/14 17:47	SURROGATE RECOVERY STUDY								
	ТРН	By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1-Chloroocta	ane		106	99.9	106	70-135					
o-Terphenyl			55.5	50.0	111	70-135					

<sup>\*</sup> Surrogate outside of Laboratory QC limits

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

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



**Project Name: RJU South** 

**Work Orders :** 491109, **Project ID:** 086361 **Lab Batch #:** 948394 **Sample:** 490901-001 S/MS **Batch:** 1 **Matrix:** Soil

Units: **Date Analyzed:** 08/17/14 06:29 mg/kg SURROGATE RECOVERY STUDY Amount True Control BTEX by EPA 8021B Found Amount Recovery Limits Flags [A] [B] %R %R [D]**Analytes** 1,4-Difluorobenzene 0.0315 0.0300 105 80-120 4-Bromofluorobenzene 0.0307 102 0.0300 80-120

**Units:** mg/kg Date Analyzed: 08/13/14 15:34 SURROGATE RECOVERY STUDY **Amount** True Control TPH By SW8015 Mod Found Limits Flags Amount Recovery [A] [B] %R %R [D] **Analytes** 1-Chlorooctane 130 99.9 130 70-135 o-Terphenyl 50.0 124 70-135 62.1

Units: mg/kg Date Analyzed: 08/13/14 18:11 SURROGATE RECOVERY STUDY

TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	99.8	114	70-135	
o-Terphenyl	60.1	49.9	120	70-135	

Units:	mg/kg	<b>Date Analyzed:</b> 08/17/14 06:46	SURROGATE RECOVERY STUDY								
	ВТЕ	X by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1,4-Difluoro	benzene	randy cos	0.0312	0.0300	104	80-120					
4-Bromoflu	orobenzene		0.0311	0.0300	104	80-120					

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

<sup>\*</sup> Surrogate outside of Laboratory QC limits

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution





**Project Name: RJU South** 

Work Order #: 491109 Project ID: 086361

 Analyst:
 ARM
 Date Prepared:
 08/13/2014
 Date Analyzed:
 08/13/2014

Lab Batch ID: 948194Sample: 660025-1-BKSBatch #: 1Matrix: Solid

Units:	mg/kg	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B  Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	< 0.00500	0.500	0.481	96	0.500	0.501	100	4	70-130	35	
Toluene	< 0.0100	0.500	0.500	100	0.500	0.515	103	3	70-130	35	
Ethylbenzene	< 0.00500	0.500	0.516	103	0.500	0.529	106	2	71-129	35	
m,p-Xylenes	< 0.0100	1.00	1.05	105	1.00	1.07	107	2	70-135	35	
o-Xylene	< 0.00500	0.500	0.498	100	0.500	0.511	102	3	71-133	35	

**Analyst:** ARM **Date Prepared:** 08/16/2014 **Date Analyzed:** 08/17/2014

Lab Batch ID: 948394 Sample: 660143-1-BKS Batch #: 1 Matrix: Solid

Units: mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B  Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00100	0.100	0.104	104	0.100	0.106	106	2	70-130	35	
Toluene	< 0.00200	0.100	0.102	102	0.100	0.105	105	3	70-130	35	
Ethylbenzene	< 0.00100	0.100	0.107	107	0.100	0.111	111	4	71-129	35	
m,p-Xylenes	< 0.00200	0.200	0.209	105	0.200	0.219	110	5	70-135	35	
o-Xylene	< 0.00100	0.100	0.101	101	0.100	0.105	105	4	71-133	35	





**Project Name: RJU South** 

Work Order #: 491109 Project ID: 086361

Analyst: ARM Date Prepared: 08/13/2014 Date Analyzed: 08/13/2014

Lab Batch ID: 948074Sample: 659934-1-BKSBatch #: 1Matrix: Solid

Units:	mg/kg	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY
--------	-------	-----------------------------------------------------------

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	875	88	1000	1100	110	23	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	1080	108	1000	1230	123	13	70-135	35	

Analyst: ARM Date Prepared: 08/13/2014 Date Analyzed: 08/13/2014

Units: mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod  Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	1030	103	1000	963	96	7	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	1120	112	1000	1140	114	2	70-135	35	





**Project Name: RJU South** 

Work Order #: 491109 Project ID: 086361

**Lab Batch ID:** 948394 **QC- Sample ID:** 490901-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 08/17/2014 Date Prepared: 08/16/2014 Analyst: ARM

Reporting Units: mg/kg MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	< 0.00103	0.103	0.104	101	0.102	0.0999	98	4	70-130	35	
Toluene	< 0.00205	0.103	0.103	100	0.102	0.0974	95	6	70-130	35	
Ethylbenzene	< 0.00103	0.103	0.108	105	0.102	0.102	100	6	71-129	35	
m,p-Xylenes	< 0.00205	0.205	0.212	103	0.205	0.199	97	6	70-135	35	
o-Xylene	< 0.00103	0.103	0.102	99	0.102	0.0965	95	6	71-133	35	

**Lab Batch ID:** 948074 **QC- Sample ID:** 490975-004 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 08/13/2014 **Date Prepared:** 08/13/2014 **Analyst:** ARM

Reporting Units: mg/kg MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<20.8	1380	1320	96	1390	1400	101	6	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<20.8	1380	1470	107	1390	1590	114	8	70-135	35	

 Lab Batch ID:
 948125
 QC- Sample ID:
 491118-003 S
 Batch #:
 1
 Matrix:
 Soil

 Date Analyzed:
 08/13/2014
 Date Prepared:
 08/13/2014
 Analyst:
 ARM

Reporting Units: mg/kg MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<15.8	1050	944	90	1050	1010	96	7	70-135	35	
C12-C28 Diesel Range Hydrocarbons	27.1	1050	1050	97	1050	1110	103	6	70-135	35	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B Relative Percent Difference RPD = 200\*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E



# **Sample Duplicate Recovery**



**Project Name: RJU South** 

Work Order #: 491109

**Lab Batch #:** 948003 **Project ID:** 086361

 Date Analyzed:
 08/12/2014 17:00
 Date Prepared:
 08/12/2014
 Analyst:
 WRU

 QC- Sample ID:
 491109-005 D
 Batch #:
 1
 Matrix:
 Soil

Reporting Units: %	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
	Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Percent Moisture	6.58	6.26	5	20	

**Lab Batch #:** 948003

 Date Analyzed:
 08/12/2014 17:00
 Date Prepared:
 08/12/2014
 Analyst: WRU

 QC- Sample ID:
 491265-001 D
 Batch #:
 1
 Matrix:
 Soil

Reporting Units: %	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte		[D]			
Percent Moisture	4.10	3.61	13	20	



# CHAIN OF CUSTODY

Dalla Staffo Setting the Standard since 1990

Stafford, Texas (281-240-4200)  Dallas, Texas (214-902-0300)		Odessa, Texas (432-563-1800) Norcross, Georgia (770-449-8800)	Lakeland, Florida (863-646-8526) Tampa, Florida (813-620-2600)	
Service Center - San Antonio, Texas (210-509-3334)	www.xenco.com	Xenco Quote # Xenco Job #	200000000000000000000000000000000000000	
Client / Reporting Information	Project Information	Analytical Information	Matrix Codes	
Company Name / Branch: CPA	Project Name/Number: 0863/ 270 S. 11.		A= Air	
Company Address:	Project Location:		S = Soil/Sed/Solld GW =Ground Water DW = Drinking Water	
MKnowles @craworldrew 437.557681			P = Product SW = Surface water SL = Sludge	
Project Contact: Nather Knowles	PO Number:		WW= Waste Water W = Wipe	
Samplers's Name:	May None		0=0	

Date	Sample   Date   Time   Mark   Sol   Holder   Date	Relinquished by:	3	1 Nath-1	Relinquished by Sampler:	TAT Starts Day received by Lab, if received by 3:00 pm	3 Day EMERGENCY	2 Day EMERGENCY	Next Day EMERGENCY	Same Day TAT	Turnaround Time ( Business days)	10 DS#(0-6"	0 DS#9-6	8 DS #8-6	7 254.6-4.	6 DS#6-21	5 DS#2-H,	4 05#4-8	1	1			No. Fleid ID / Point of Collection
4:35 50	Y   1/5   50   1   Nacitate   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20	Date Time:		18 11:10	SAMPLE CUSTODY MUST BE DOCUMENTED	eceived by 3:00 pm		Contract TAT	]7 Day TAT	S Day TAT		8/7	6, 8/7	7	8/7		00	20.	00,	1/8/1	4, 8/7		ction
On  HNO3  H2SO4  NaOH  NaOH  NaHSO4  N	On  IHNO3  H2SO4  NaOH  NaOH  NaOH  NaHSO4  NAHSOA  NA	Received By:	Received By:	1 Celved By	3		TRRP Checklist	Level 3 (CLP Forms)	Level III Std QC+ Forms	Level II Std QC	Data Deliverable Informati		٧,	_	_			1 05 12:11	14:35 50 1	1 09 oe:h	14:15 50 1	Matrix bottles HCI	În .
	FED-EX / UPS: Trach Page Trach Pa	Custody Seal # Prese	elinquished By:	Relinquished By:	DSSESSION, INCLUDING COURIER DELIVE			UST/RG -411	TRRP Level IV	Level IV (Full Data Pkg /raw-data)	ion											H2SO4 NaOH NaHSO4 MEOH NONE	> }

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mowle Knowles

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SSOW



# CHAIN OF CUSTODY

Stafford, Texas (281-240-4200)

Relinquished by:	Relinquished by:	Relinquished by Sampler:	IA   Starts Day received by Lab, if received by 3:00 pm	3 Day EMEHGENCY	2 Day EMERGENCY	Next Day EMERGENCY	Same Day TAT	Turnaround Time ( Business days)	10	9	8	7	0	Ch	4	3 DS#13-81	2 DS # 12-8	,	<b>.</b>	No. Field ID / Point of Collection		Samplers's Name:	Maylan Comacii	Alfrombs @ Cra world	Email:	company wouless:	TOTAL CICAL	Client / Reporting Information Company Name / Branch:		Service Center - San Antonio, Texas (210-509-3334)	Dallas, Texas (214-902-0300)	
Date	Date	Date	sample custody must be documented below EACH TIME		Contract TAT	7 Day TAT	5 Day TAT									,			Sa	ollection		Kerrentes	Laures	U rom	Phone No:					as (210-509-3334)		
Date Time:	Date Time:	Date Time:	T BE DOCUMENTE													25,11,52	め、エバン	as. Hiso	Sample ( N	) Collection	Colloctic		PO Number:		Invoice To:	Project Location	rioject	District				
Received By: 5	Received By:	Received By:	D BELOW EACH TIME SAM	TRRP Checklist	Level 3 (CLP Forms)	Level III Std QC+ Forms	Level II Std QC	Data De							2	9/1 50	St 28	1 05 19/8	Time Matrix bottles			See				to a Hills NM	vumber:	Project Information		WWW		
	(		PLES CHANGE POS		ns)	Forms		Data Deliverable Information											HCI NaOH/Z Acetate	Number		SSOW					086361 .1			www.xenco.com		
Custody Seal #	Relinquished By:	Relinquished By:  Da	SEESSION INCLUDING COL		UST/RG -411	TRRP Level IV	Level IV (Full Data Pkg /raw data)	3											H2SO4 NaOH NaHSO MEOH NONE	Number of preserved bottles							Wras nEd.					
Preserved where applicable	Date Time:	Date-Tipe					/raw data)									7	2 2	7,	T B	PH	1	<							Ana	Xenco Quote #	Norcross, Georgia (770-449-8800)	Odessa, Texas (432-563-1800)
e applicable	0   1	Q L Rece	FED-EX / UPS: Tracking #	,				Notes:																					Analytical Information	×	ia (770-449-8800	432-563-1800)
On leg	2	Received By	racking #																		240									nco Job#		_
Cooler Temp. Thermo.																5	2002	- ero Comments	n i i		=WW	0 = 0i	W=1	SL =	PII	GW DW:	A= Air	INIC	Ma	707	Tampa, Florida (813-620-2000)	Lakeland, Florida (863-646-8526)
Thermo. Corr Factor	Name of the Control o								AND THE REAL PROPERTY OF THE P						00000		2000	IIIIeills			WW= Waste Water	Oil	W = Wipe	SW = Surface water SL = Sludge	P = Product	GW =Ground Water DW = Drinking Water	Air	matrix codes	triv Codes	3	1000)	(3070

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Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service tribes previously neglocitated under a fully executed client contract.



### **XENCO Laboratories**

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



Client: Conestoga Rovers & Associates

**Date/ Time Received:** 08/08/2014 11:10:00 AM

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

Work Order #: 491109

**Temperature Measuring device used:** 

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		1
#2 *Shipping container in good condition?	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shipping con	tainer/ cooler?	No
#5 Custody Seals intact on sample bottle	s?	No
#6 *Custody Seals Signed and dated?		No
#7 *Chain of Custody present?		Yes
#8 Sample instructions complete on Chai	in of Custody?	Yes
#9 Any missing/extra samples?		No
#10 Chain of Custody signed when relinq	uished/ received?	Yes
#11 Chain of Custody agrees with sample	e 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 indicate	ed test(s)?	Yes
#18 All samples received within hold time	9?	Yes
#19 Subcontract of sample(s)?		Yes
#20 VOC samples have zero headspace	(less than 1/4 inch bubble)?	No
#21 <2 for all samples preserved with HN	103,HCL, H2SO4?	N/A
#22 >10 for all samples preserved with Na	aAsO2+NaOH, ZnAc+NaOH?	N/A
Must be completed for after-hours del	livery of samples prior to placing in	the refrigerator
Checklist completed by:	Mmy Moah Kelsey Brooks	Date: 08/08/2014
Checklist reviewed by:		Date:

### **Analytical Report 495738**

for

### **Conestoga Rovers & Associates**

Project Manager: Nathan Knowles

RJU South

086361

28-OCT-14

Collected By: Client





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

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-14-18), Arizona (AZ0765), Florida (E871002), Louisiana (03054) New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135) Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

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

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

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

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

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





28-OCT-14

Project Manager: Nathan Knowles Conestoga Rovers & Associates 2135 S Loop 250 W Midland, TX 79703

Reference: XENCO Report No(s): 495738

**RJU South** 

Project Address: Loco Hills,NM

### **Nathan Knowles:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 495738. 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. 495738 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, Hoah

**Kelsey Brooks** 

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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



### **Sample Cross Reference 495738**



### Conestoga Rovers & Associates, Midland, TX

### **RJU** South

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
CS1-102214	S	10-22-14 11:22	- 8.5 ft	495738-001
CS2-102214	S	10-22-14 11:04	- 8 ft	495738-002
CS3-102214	S	10-22-14 11:24	- 8.5 ft	495738-003
CS4-102214	S	10-22-14 10:55	- 12 ft	495738-004
CS5-102214	S	10-22-14 10:50	- 12 ft	495738-005
CS6-102214	S	10-22-14 11:08	- 4 ft	495738-006
CS7-102214	S	10-22-14 11:10	- 4 ft	495738-007
CS8-102214	S	10-22-14 11:12	- 9 ft	495738-008
CS9-102214	S	10-22-14 11:14	- 6 ft	495738-009
CS10-102214	S	10-22-14 11:16	- 6 ft	495738-010
CS11-102214	S	10-22-14 11:18	- 9 ft	495738-011
CS12-102214	S	10-22-14 11:20	- 10 ft	495738-012
CS13-102214	S	10-22-14 11:22	- 10 ft	495738-013



### **CASE NARRATIVE**



Client Name: Conestoga Rovers & Associates

Project Name: RJU South

 Project ID:
 086361
 Report Date:
 28-OCT-14

 Work Order Number(s):
 495738
 Date Received:
 10/22/2014



**Project Id:** 086361

Project Location: Loco Hills,NM

**Contact:** Nathan Knowles

### **Certificate of Analysis Summary 495738**

### Conestoga Rovers & Associates, Midland, TX

**Project Name: RJU South** 

**Date Received in Lab:** Wed Oct-22-14 04:50 pm

**Report Date:** 28-OCT-14

Project Manager: Kelsey Brooks

ND   0.00213   ND   0.00247   ND   0.00233   0.0449   0.0250   ND   0.00253   ND   0.00238									1 Toject Ma	nager.	Keisey Diook			
Depth:		Lab Id:	495738-0	001	495738-0	002	495738-0	003	495738-0	004	495738-0	005	495738-0	006
Matrix:   SOIL	Analysis Requested	Field Id:	CS1-102	214	CS2-1022	214	CS3-102	214	CS4-1022	214	CS5-102	214	CS6-102	214
Sampled   Oct-22-14   1:22	Anaiysis Kequesieu	Depth:	8.5 ft	:	8 ft	8 ft		:	12 ft		12 ft		4 ft	
BTEX by EPA 8021B    Extracted: Analyzed: Oct-23-14 15:00   Oct-2		Matrix:	SOIL	SOIL			SOIL		SOIL		SOIL		SOIL	,
Analyzed:   Oct-23-14   19:52   Oct-24-14   08:33   Oct-23-14   20:22   Oct-24-14   10:11   Oct-23-14   20:24   Oct-23-14   20:40   Oct-23-14		Sampled:	Oct-22-14	11:22	Oct-22-14	11:04	Oct-22-14	11:24	Oct-22-14	10:55	Oct-22-14	10:50	Oct-22-14	11:08
Nither   N	BTEX by EPA 8021B	Extracted:	Oct-23-14	15:00	Oct-23-14	15:00	Oct-23-14	15:00	Oct-23-14	15:00	Oct-23-14	15:00	Oct-23-14	15:00
ND   0.00106   ND   0.00124   ND   0.00116   ND   0.0125   ND   0.00127   ND   0.00119		Analyzed:	Oct-23-14	19:52	Oct-24-14 (	08:33	Oct-23-14	23:22	Oct-24-14	10:11	Oct-23-14	20:24	Oct-23-14	20:40
ND   0.00213   ND   0.00247   ND   0.00233   0.0449   0.0250   ND   0.00253   ND   0.00238		Units/RL:	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Content   Cont	Benzene		ND	0.00106	ND	0.00124	ND	0.00116	ND	0.0125	ND	0.00127	ND	0.00119
Description	Toluene		ND	0.00213	ND		ND	0.00233	0.0449	0.0250	ND	0.00253	ND	0.00238
ND   0.00124   0.0762   0.00116   0.658   0.0125   0.0438   0.00127   ND   0.00119	Ethylbenzene		0.0103	0.00106	ND	0.00124	ND	0.00116	1.65	0.0125	0.00413	0.00127	ND	0.00119
Cotal Xylenes   0.498   0.00106   ND   0.00124   0.156   0.00116   2.35   0.0125   0.0991   0.00127   ND   0.00119	m,p-Xylenes		0.287	0.00213	ND	0.00247	0.0799	0.00233	1.69	0.0250	0.0553	0.00253	ND	0.00238
Percent Moisture   Extracted:   Analyzed:   Oct-23-14   16:50	o-Xylene		0.211	0.00106	ND	0.00124	0.0762	0.00116	0.658	0.0125	0.0438	0.00127	ND	0.00119
Percent Moisture    Extracted:   Analyzed:   Oct-23-14 16:50   Oct-23-14 16:00   Oct	Total Xylenes		0.498	0.00106	ND	0.00124	0.156	0.00116	2.35	0.0125	0.0991	0.00127	ND	0.00119
Analyzed: Oct-23-14 16:50 Oct-	Total BTEX		0.508	0.00106	ND	0.00124	0.156	0.00116	4.04	0.0125	0.103	0.00127	ND	0.00119
Units/RL:         %         RL         %	Percent Moisture	Extracted:												
Percent Moisture 6.32 1.00 19.5 1.00 14.1 1.00 20.8 1.00 21.5 1.00 16.4 1.00  TPH By SW8015 Mod Extracted: Oct-23-14 16:00 Oct-23-14 16:00 Oct-23-14 16:00 Oct-23-14 16:00 Oct-23-14 16:00 Oct-23-14 16:00		Analyzed:	Oct-23-14	16:50	Oct-23-14	16:50	Oct-23-14	16:50	Oct-23-14	16:50	Oct-23-14	16:50	Oct-23-14	16:50
TPH By SW8015 Mod		Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
	Percent Moisture		6.32	1.00	19.5	1.00	14.1	1.00	20.8	1.00	21.5	1.00	16.4	1.00
A I I 0+24 14 12 52	TPH By SW8015 Mod	Extracted:	Oct-23-14	16:00	Oct-23-14	16:00	Oct-23-14	16:00	Oct-23-14	16:00	Oct-23-14	16:00	Oct-23-14	16:00
Analyzed: Oct-24-14 15:55 Uct-24-14 16:55 Uct-24-14 16:19 Oct-24-14 16:43 Oct-24-14 17:06		Analyzed:	Oct-24-14	13:53	Oct-24-14	14:42	Oct-24-14	15:55	Oct-24-14	16:19	Oct-24-14	16:43	Oct-24-14	17:06
Units/RL: mg/kg RL		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 68.7 16.0 ND 18.6 353 17.4 130 18.9 45.7 19.1 ND 17.9	C6-C12 Gasoline Range Hydrocarbons		68.7	16.0	ND	18.6	353	17.4	130	18.9	45.7	19.1	ND	17.9
	C12-C28 Diesel Range Hydrocarbons		189	16.0	ND	18.6	3120	17.4	259	18.9	112	19.1	299	17.9
	C28-C35 Oil Range Hydrocarbons		ND	16.0	ND	18.6	192	17.4	ND	18.9	ND	19.1	ND	17.9
Total TPH         258         16.0         ND         18.6         3670         17.4         389         18.9         158         19.1         299         17.9	Total TPH		258	16.0	ND	18.6	3670	17.4	389	18.9	158	19.1	299	17.9

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

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Kelsey Brooks Project Manager



### **Certificate of Analysis Summary 495738**

### Conestoga Rovers & Associates, Midland, TX

**Project Name: RJU South** 



**Project Id:** 086361

Project Location: Loco Hills,NM

**Contact:** Nathan Knowles

**Date Received in Lab:** Wed Oct-22-14 04:50 pm

Report Date: 28-OCT-14

**Project Manager:** Kelsey Brooks

								I Toject Mia	inger.	Keisey brook	.0		
	Lab Id:	495738-0	007	495738-0	08	495738-	009	495738-0	010	495738-0	011	495738-	012
Analysis Requested	Field Id:	CS7-102	214	CS8-1022	214	CS9-102	214	CS10-102	214	CS11-102	2214	CS12-102	2214
Analysis Requesieu	Depth:	4 ft		9 ft		6 ft		6 ft		9 ft		10 ft	
	Matrix:	SOIL	,	SOIL		SOIL	,	SOIL		SOIL	,	SOIL	_
	Sampled:	Oct-22-14	11:10	Oct-22-14	1:12	Oct-22-14	11:14	Oct-22-14	11:16	Oct-22-14	11:18	Oct-22-14	11:20
BTEX by EPA 8021B	Extracted:	Oct-23-14	15:00	Oct-23-14	5:00	Oct-23-14	15:00	Oct-23-14	15:00	Oct-23-14	15:00	Oct-23-14	15:00
	Analyzed:	Oct-24-14	09:54	Oct-24-14	2:04	Oct-24-14	08:50	Oct-24-14	09:06	Oct-23-14	23:06	Oct-24-14	09:22
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00113	ND	0.0569	ND	0.00122	ND	0.00106	ND	0.00110	ND	0.00111
Toluene		ND	0.00225	ND	0.114	ND	0.00244	ND	0.00211	ND	0.00220	ND	0.00221
Ethylbenzene		ND	0.00113	0.777	0.0569	ND	0.00122	ND	0.00106	ND	0.00110	ND	0.00111
m,p-Xylenes		ND	0.00225	11.6	0.114	ND	0.00244	ND	0.00211	ND	0.00220	ND	0.00221
o-Xylene		ND	0.00113	5.08	0.0569	ND	0.00122	ND	0.00106	ND	0.00110	ND	0.00111
Total Xylenes		ND	0.00113	16.7	0.0569	ND	0.00122	ND	0.00106	ND	0.00110	ND	0.00111
Total BTEX		ND	0.00113	17.5	0.0569	ND	0.00122	ND	0.00106	ND	0.00110	ND	0.00111
Percent Moisture	Extracted:												
	Analyzed:	Oct-23-14	16:50	Oct-23-14	6:50	Oct-23-14	16:50	Oct-23-14	16:50	Oct-23-14	16:50	Oct-23-14	16:50
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		11.7	1.00	12.4	1.00	18.1	1.00	5.80	1.00	9.52	1.00	9.93	1.00
TPH By SW8015 Mod	Extracted:	Oct-23-14	16:00	Oct-23-14	6:00	Oct-23-14	16:00	Oct-23-14	16:00	Oct-23-14	16:00	Oct-23-14	16:00
	Analyzed:	Oct-24-14	17:30	Oct-24-14	7:56	Oct-24-14	18:19	Oct-24-14	19:43	Oct-24-14	20:16	Oct-24-14	20:51
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	16.9	783	17.1	ND	18.3	ND	15.9	ND	16.5	ND	16.6
C12-C28 Diesel Range Hydrocarbons		667	16.9	2550	17.1	76.5	18.3	50.6	15.9	566	16.5	53.9	16.6
C28-C35 Oil Range Hydrocarbons		34.6	16.9	119	17.1	ND	18.3	ND	15.9	49.8	16.5	ND	16.6
Total TPH		702	16.9	3450	17.1	76.5	18.3	50.6	15.9	616	16.5	53.9	16.6

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Kelsey Brooks Project Manager



### Certificate of Analysis Summary 495738

### Conestoga Rovers & Associates, Midland, TX



**Project Id:** 086361

Project Location: Loco Hills,NM

**Contact:** Nathan Knowles

**Project Name: RJU South** 

Date Received in Lab: Wed Oct-22-14 04:50 pm

**Report Date:** 28-OCT-14

**Project Manager:** Kelsev Brooks

				Project Manager:	Keisey Biooks	
	Lab Id:	495738-013				
Analysis Requested	Field Id:	CS13-102214				
Anaiysis Kequesieu	Depth:	10 ft				
	Matrix:	SOIL				
	Sampled:	Oct-22-14 11:22				
BTEX by EPA 8021B	Extracted:	Oct-23-14 15:00				
	Analyzed:	Oct-24-14 09:38				
	Units/RL:	mg/kg RL				
Benzene		ND 0.00113				
Toluene		ND 0.00227				
Ethylbenzene		ND 0.00113				
m,p-Xylenes		ND 0.00227				
o-Xylene		ND 0.00113				
Total Xylenes		ND 0.00113				
Total BTEX		ND 0.00113				
Percent Moisture	Extracted:					
	Analyzed:	Oct-23-14 16:50				
	Units/RL:	% RL				
Percent Moisture		12.5 1.00				
TPH By SW8015 Mod	Extracted:	Oct-23-14 16:00				
	Analyzed:	Oct-24-14 21:28				
	Units/RL:	mg/kg RL				
C6-C12 Gasoline Range Hydrocarbons		ND 17.1				
C12-C28 Diesel Range Hydrocarbons		55.6 17.1				
C28-C35 Oil Range Hydrocarbons		ND 17.1				
Total TPH		55.6 17.1				
			•			

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Kelsey Brooks Project Manager



### Flagging Criteria



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

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

**DL** Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
6017 Financial Drive, Norcross, GA 30071	(770) 449-8800	(770) 449-5477
3725 E. Atlanta Ave, Phoenix, AZ 85040	(602) 437-0330	



**Project Name: RJU South** 

**Work Orders :** 495738, **Lab Batch #:** 953772 **Sample:** 495738-001 / SMP **Batch:** 1 **Matrix:** Soil

Units:	mg/kg	<b>Date Analyzed:</b> 10/23/14 19:52	SU	SURROGATE RECOVERY STUDY								
	BTEX	by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
		Analytes			[D]							
1,4-Difluoro	benzene		0.0311	0.0300	104	80-120						
4-Bromofluo	orobenzene		0.0269	0.0300	90	80-120						

**Units:** mg/kg Date Analyzed: 10/23/14 20:24 SURROGATE RECOVERY STUDY **Amount** True Control BTEX by EPA 8021B Found Limits Amount Recovery Flags [A] [B] %R %R [D] **Analytes** 1,4-Difluorobenzene 0.0284 0.0300 95 80-120 4-Bromofluorobenzene 0.0301 0.0300 100 80-120

Units: mg/kg Date Analyzed: 10/23/14 20:40 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0299	0.0300	100	80-120	
4-Bromofluorobenzene	0.0291	0.0300	97	80-120	

Lab Batch #: 953772 Sample: 495738-011 / SMP Batch: 1 Matrix: Soil

Units:	mg/kg	<b>Date Analyzed:</b> 10/23/14 23:06	SU	RROGATE R	ECOVERY S	STUDY	
	BTE	X by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluor	robenzene	Analytes	0.0283	0.0300	94	80-120	
4-Bromoflu	uorobenzene		0.0258	0.0300	86	80-120	

<b>Units:</b>	mg/kg	<b>Date Analyzed:</b> 10/23/14 23:22	SU	RROGATE RI	ECOVERY S	STUDY	
	ВТЕ	X by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorob	enzene	may us	0.0261	0.0300	87	80-120	
4-Bromofluor	robenzene		0.0279	0.0300	93	80-120	

<sup>\*</sup> Surrogate outside of Laboratory QC limits

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

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



**Project Name: RJU South** 

**Work Orders :** 495738, **Lab Batch #:** 953772 **Sample:** 495738-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg Date Analyzed: 10/24/14 08:33 SURROGATE RECOVERY STUDY								
BTEX by EPA 8	8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes				[D]				
1,4-Difluorobenzene	0.0296	0.0300	99	80-120				
4-Bromofluorobenzene	0.0289	0.0300	96	80-120				

**Units:** mg/kg Date Analyzed: 10/24/14 08:50 SURROGATE RECOVERY STUDY **Amount** True Control BTEX by EPA 8021B Found Limits Amount Recovery Flags [A] [B] %R %R [D] **Analytes** 1,4-Difluorobenzene 0.0322 0.0300 107 80-120 4-Bromofluorobenzene 0.0294 0.0300 80-120 98

**Lab Batch #:** 953772 **Sample:** 495738-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg Date Analyzed: 10/24/14 09:06 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	80-120	

**Lab Batch #:** 953772 **Sample:** 495738-012 / SMP **Batch:** 1 **Matrix:** Soil

Units:	mg/kg	<b>Date Analyzed:</b> 10/24/14 09:22	SURROGATE RECOVERY STUDY						
	ВТЕ	X by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluor	robenzene		0.0330	0.0300	110	80-120			
4-Bromoflu	uorobenzene		0.0299	0.0300	100	80-120			

Units: mg	g/kg	<b>Date Analyzed:</b> 10/24/14 09:38	SURROGATE RECOVERY STUDY						
		by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorobenzer		mary ces	0.0318	0.0300	106	80-120			
4-Bromofluoroben:	zene		0.0308	0.0300	103	80-120			

<sup>\*</sup> Surrogate outside of Laboratory QC limits

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

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



**Project Name: RJU South** 

**Work Orders :** 495738, **Lab Batch #:** 953772 **Sample:** 495738-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg Date Analyzed: 10/24/14 09:54 SURROGATE RECOVERY STUDY								
	ВТЕ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
		Analytes			[D]			
1,4-Difluor	obenzene		0.0294	0.0300	98	80-120		
4-Bromoflu	orobenzene		0.0283	0.0300	94	80-120		

**Units:** mg/kg Date Analyzed: 10/24/14 10:11 SURROGATE RECOVERY STUDY BTEX by EPA 8021B **Amount** True Control Found Limits Flags Amount Recovery [A] [B] %R %R [D] **Analytes** 1,4-Difluorobenzene 0.0243 0.0300 81 80-120 4-Bromofluorobenzene 0.0334 0.0300 80-120 111

Units: mg/kg Date Analyzed: 10/24/14 12:04 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0266	0.0300	89	80-120	
4-Bromofluorobenzene	0.0281	0.0300	94	80-120	

**Lab Batch #:** 953910 **Sample:** 495738-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg Date Analyzed: 10/24/14 13:53 SURROGATE RECOVERY STUDY							
	ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooc	tane		98.5	99.7	99	70-135	
o-Terpheny	1		52.1	49.9	104	70-135	

Units:	mg/kg	<b>Date Analyzed:</b> 10/24/14 14:42	SURROGATE RECOVERY STUDY					
	ТРН	By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooct	ane	Analytes	97.9	99.8	98	70-135		
o-Terpheny	1		53.4	49.9	107	70-135		

<sup>\*</sup> Surrogate outside of Laboratory QC limits

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

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



**Project Name: RJU South** 

Units: mg/kg Date Analyzed: 10/24/14 15:55 SURROGATE RECOVERY STUDY								
		By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
		Analytes						
1-Chloroocta	ine		109	99.6	109	70-135		
o-Terphenyl			48.6	49.8	98	70-135		

**Units:** mg/kg Date Analyzed: 10/24/14 16:19 SURROGATE RECOVERY STUDY **Amount** True Control TPH By SW8015 Mod Found Limits Flags Amount Recovery [A] [B] %R %R [D] **Analytes** 1-Chlorooctane 110 99.9 110 70-135 o-Terphenyl 117 70-135 58.6 50.0

Units: mg/kg Date Analyzed: 10/24/14 16:43 SURROGATE RECOVERY STUDY

TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	99.9	101	70-135	
o-Terphenyl	54.1	50.0	108	70-135	

Units:	mg/kg	<b>Date Analyzed:</b> 10/24/14 17:06	SURROGATE RECOVERY STUDY					
	ТРН	By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooct	ane		101	99.6	101	70-135		
o-Terpheny			57.0	49.8	114	70-135		

Units:	mg/kg	<b>Date Analyzed:</b> 10/24/14 17:30	SURROGATE RECOVERY STUDY					
	ТРН	By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooct	ane		106	99.7	106	70-135		
o-Terphenyl			62.0	49.9	124	70-135		

<sup>\*</sup> Surrogate outside of Laboratory QC limits

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

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



**Project Name: RJU South** 

Units: mg/kg Date Analyzed: 10/24/14 17:56 SURROGATE RECOVERY STUDY							
	ТРН	By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	ane		111	99.7	111	70-135	
o-Terphenyl			47.3	49.9	95	70-135	

**Date Analyzed:** 10/24/14 18:19 **Units:** mg/kg SURROGATE RECOVERY STUDY **Amount** True Control TPH By SW8015 Mod Found Limits Flags Amount Recovery [A] [B] %R %R [D] **Analytes** 1-Chlorooctane 100 99.9 100 70-135 o-Terphenyl 54.8 70-135 50.0 110

Units: mg/kg Date Analyzed: 10/24/14 19:43 SURROGATE RECOVERY STUDY

TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.8	99.8	93	70-135	
o-Terphenyl	48.5	49.9	97	70-135	

**Lab Batch #:** 953910 **Sample:** 495738-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg Date Analyzed: 10/24/14 20:16 SURROGATE RECOVERY STUDY							
	TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooc	etane		79.7	99.8	80	70-135	
o-Terpheny	/1		43.8	49.9	88	70-135	

Units:	mg/kg	<b>Date Analyzed:</b> 10/24/14 20:51	SURROGATE RECOVERY STUDY					
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooc	tane		74.9	99.8	75	70-135		
o-Terpheny	1		38.2	49.9	77	70-135		

<sup>\*</sup> Surrogate outside of Laboratory QC limits

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

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



**Project Name: RJU South** 

Units: mg/kg Date Analyzed: 10/24/14 21:28 SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod  Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
	Analytes						
1-Chlorooctane		74.8	99.7	75	70-135		
o-Terphenyl		37.7	49.9	76	70-135		

Lab Batch #: 953772 Sample: 663448-1-BLK / BLK Batch: 1 Matrix: Solid

Units:	mg/kg	<b>Date Analyzed:</b> 10/23/14 17:42	SURROGATE RECOVERY STUDY					
	ВТЕ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
		Analytes			[D]			
1,4-Difluor	robenzene		0.0311	0.0300	104	80-120		
4-Bromoflu	ıorobenzene		0.0269	0.0300	90	80-120		

Lab Batch #: 953910 Sample: 663507-1-BLK/BLK Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 10/24/14 12:13 SURROGATE RECOVERY STUDY

TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	100	103	70-135	
o-Terphenyl	56.5	50.0	113	70-135	

Lab Batch #: 953772 Sample: 663448-1-BKS / BKS Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 10/23	3/14 17:58 SU	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0.0312	0.0300	104	80-120		
4-Bromofluorobenzene	0.0293	0.0300	98	80-120		

Lab Batch #: 953910 Sample: 663507-1-BKS / BKS Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 10/24/14 12:38 SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod			Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chloroocta	ane		121	100	121	70-135	
o-Terphenyl			37.3	50.0	75	70-135	

<sup>\*</sup> Surrogate outside of Laboratory QC limits

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

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



**Project Name: RJU South** 

 Work Orders: 495738,
 Project ID: 086361

 Lab Batch #: 953772
 Sample: 663448-1-BSD / BSD
 Batch: 1
 Matrix: Solid

Units: mg/kg Date Analyzed: 10/23/14 18	ECOVERY S	STUDY			
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0314	0.0300	105	80-120	
4-Bromofluorobenzene	0.0287	0.0300	96	80-120	

Lab Batch #: 953910 Sample: 663507-1-BSD / BSD Batch: 1 Matrix: Solid

Units:	mg/kg	<b>Date Analyzed:</b> 10/24/14 13:03	SURROGATE RECOVERY STUDY					
	ТРН	By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooc	tane		109	100	109	70-135		
o-Terpheny	1		37.4	50.0	75	70-135		

Units: mg/kg Date Analyzed: 10/23/14 18:47 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0344	0.0300	115	80-120	
4-Bromofluorobenzene	0.0343	0.0300	114	80-120	

Units:	mg/kg	<b>Date Analyzed:</b> 10/24/14 15:07	SU	RROGATE RE	ECOVERY S	STUDY	
	ТРН	By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	tane		119	99.7	119	70-135	
o-Terpheny	1		63.1	49.9	126	70-135	

Units:	mg/kg	<b>Date Analyzed:</b> 10/24/14 15:31	SU	RROGATE RI	ECOVERY	STUDY	
	ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chloroocta	ane		114	99.8	114	70-135	
o-Terphenyl			63.2	49.9	127	70-135	

<sup>\*</sup> Surrogate outside of Laboratory QC limits

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

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



### **BS / BSD Recoveries**



**Project Name: RJU South** 

Work Order #: 495738 Project ID: 086361

Analyst: ARM Date Prepared: 10/23/2014 Date Analyzed: 10/23/2014

 Lab Batch ID: 953772
 Sample: 663448-1-BKS
 Batch #: 1
 Matrix: Solid

Units: mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes  Benzene	<0.00100	0.100	0.0901	90	0.100	0.0895	90	1	70-130	35	
Toluene	<0.00100	0.100	0.0958	96	0.100	0.0953	95	1	70-130	35	
Ethylbenzene	< 0.00100	0.100	0.0988	99	0.100	0.0985	99	0	71-129	35	
m,p-Xylenes	< 0.00200	0.200	0.203	102	0.200	0.202	101	0	70-135	35	
o-Xylene	< 0.00100	0.100	0.0955	96	0.100	0.0942	94	1	71-133	35	

**Analyst:** ARM **Date Prepared:** 10/23/2014 **Date Analyzed:** 10/24/2014

**Lab Batch ID:** 953910 **Sample:** 663507-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	909	91	1000	916	92	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	1090	109	1000	1090	109	0	70-135	35	

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



### Form 3 - MS Recoveries

**Project Name: RJU South** 



**Work Order #:** 495738

**Lab Batch #:** 953772 **Project ID:** 086361

 Date Analyzed:
 10/23/2014
 Date Prepared:
 10/23/2014
 Analyst:
 ARM

 QC- Sample ID:
 495738-002 S
 Batch #:
 1
 Matrix:
 Soil

Reporting Units: mg/kg

Reporting Units: mg/kg	MATI	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	[B]				
Benzene	< 0.00124	0.124	0.0966	78	70-130	
Toluene	< 0.00248	0.124	0.103	83	70-130	
Ethylbenzene	< 0.00124	0.124	0.105	85	71-129	
m,p-Xylenes	< 0.00248	0.248	0.222	90	70-135	
o-Xylene	< 0.00124	0.124	0.107	86	71-133	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/BRelative Percent Difference [E] = 200\*(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: RJU South** 

**Work Order #:** 495738 **Project ID:** 086361

**Lab Batch ID:** 953910 **QC- Sample ID:** 495738-002 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 10/24/2014 Date Prepared: 10/23/2014 Analyst: ARM

Reporting Units: mg/kg MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<18.6	1240	1090	88	1240	1100	89	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<18.6	1240	1260	102	1240	1290	104	2	70-135	35	



### **Sample Duplicate Recovery**



**Project Name: RJU South** 

**Work Order #:** 495738

**Lab Batch #:** 953737 **Project ID:** 086361

 Date Analyzed:
 10/23/2014 16:50
 Date Prepared:
 10/23/2014
 Analyst: WRU

 QC- Sample ID:
 495738-004 D
 Batch #:
 1
 Matrix:
 Soil

Reporting Units: %	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture	Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Percent Moisture	20.8	20.6	1	20	

**Lab Batch #:** 953737

 Date Analyzed:
 10/23/2014 16:50
 Date Prepared:
 10/23/2014
 Analyst: WRU

 QC- Sample ID:
 495750-001 D
 Batch #:
 1
 Matrix:
 Soil

Reporting Units: %	SAMPLE A	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	8.71	8.53	2	20	



# CHAIN OF CUSTODY

Odessa, Texas (432-563-1800)

Lakeland, Florida (863-646-8526)

Setting the Standard since 1990

Dallas, Texas (214-902-0300) Stafford, Texas (281-240-4200)

raide, rexas (z.i+-90z-0300)				Norcross, Georgia (770-449-8800)		Tampa, Florida (8)3-620-2000)
Service Center - San Antonio, Texas (210-509-3334)		www.xenco.com	٠	Xenco Quote #	Xenco Job#	10738
				Analytical Information	n	Matrix Codes
Company Name / Branch: A A	Project	Project Information Project Name/Number:	D.T.J.C. W			A= Air
Company Address:	Project Location	ocation:	White of the			S = Soil/Sed/Solid
Midland IX		Loco Hills NM				DW = Drinking Water P = Product
Mhnowles Octavo ddicom 430-557-01004	Invoice To:	To:				SW = Surface water SL = Sludge
Project Contact: Nather Knowles	PO Number:	ber:				W = Wipe
不			3	<		WALL Mosts Wiston
	Collection		Number of preserved bottles	5) H		A STATE STATE OF THE STATE OF T
No. Field ID / Point of Collection	Sample		NO3 2SO4 aOH aHSO4 EOH	BI		
16601-1651	6	1	h			riela Comments
1 plet 01 - CS2 2	<u>a</u>					
hleeol - 557 E	8.5	11 5 he:11				
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hletal - 957 9	드	11:00 5 1				
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1	2	11:11				
Ľ	(o' //	11番 5 1				
10 CS 10 - 10 S) 101	4	11:16 5				
Same Day TAT		Level II Std QC	Level IV (Full Data Pkg /raw data)	Notes:	<i>S</i>	30
Next Day EMERGENCY 7 Day TAT		Level III Std QC+ Forms	TRRP Level IV			
2 Day EMERGENCY Contract TAT		Level 3 (CLP Forms)	UST/RG-411			
3 Day EMERGENCY		TRRP Checklist				
TAT Starts Day received by Lab, if received by 3:00 pm	) pm			FED-EX / UPS: Tracking #	: Tracking #	
Relinquished by Sambler:	Date Time: (1/52) Received B		MPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY  Relinquished By:  Dat  1 C	efrime: ////////////////////////////////////	Received By:	
Relinduished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	
Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice	Cooler Temp. Thermo Coury Factor
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously neglotiated under a fully executed client contract.	valid purchase order from	client company to XENCO Laboratories and its	affiliates, subcontractors and assign	s XENCO's standard terms and conditions	of service unless previous	sly negiotiated under a fully executed client contract.



# CHAIN OF CUSTODY

Stafford, Texas (281-240-4200)

Stafford,Texas (281-240-4200)				Odessa, Texas (432-563-1800)		Lakeland, Florida (863-646-8526)
Dallas, Texas (214-902-0300)				Norcross, Georgia (770-449-8800)		Tampa, Florida, (843-620-2000)
Service Center - San Antonio, Texas (210-509-3334)		www.xenco.com		Xenco Quote #	nco Job#	864,017
				Analytical Information	ion	Matrix Codes
Client / Reporting Information  Company Name / Branch: 🔌 0 0	Project	Project Information Project Name/Number:				A= Air
Company Address:	Project Location:	ocation:	MINOS OF			S = Soil/Sed/Solid GW =Ground Water
Miller	60	o Fills NA				DW = Drinking Water P = Product
Email: Phone No:	Invoice To:					SW = Surface water
NKnowles Occamouldium 452.557-0000 9	89					SL = Sludge WW= Waste Water
6 ) . Maria	PO Number:	ber:				W = Wipe O = Oil
Samplers's Name: \\ \( \( \lambda \) \( \lambda \) \\ \(		HT.		<u>C</u>		WW= Waste Water
	Collection		Number of preserved bottles	E X		
No. Field ID / Paint of Collection	Sample Depth Date	Time Matrix bottles # of HCI NaOH/Zn Acetate	H2SO4 NaOH NaHSO4 MEOH NONE	BT		Field Comments
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2 CS 12 - 108314	10, 10/20	1, 5, al. 11		N		
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Turnarouna Time (Business un)of		Data Denverable illoritation		Notes:		
Same Day TAT S Day TAT		Level II Std QC	Level IV (Full Data Pkg /raw data)	raw data) SeC	Mass	
Next Day EMERGENCY		Level III Std QC+ Forms	TRRP Level IV			
2 Day EMERGENCY Contract TAT		Level 3 (CLP Forms)	UST/RG-411			
3 Day EMERGENCY		TRRP Checklist				
TAT Starts Day received by Lab, if received by 3:00 pm	0 pm			FED-EX/U	FED-EX / UPS: Tracking #	
Sampler:	SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EA	CH TIMES	MPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY			
A A A	16/02 4:50	Received WWW	Helinquished By:	10 R2/4 16	Received By:	
ω · · · · · · · · · · · · · · · · · · ·	Date siline.	3	4		Received by:	
Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice Coo	Cooler Temp. Thermo. Corr. Factor
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously neglocitated under a tuly executed client contract.	valid purchase order from	n client company to XENCO Laboratories and its aff	iliates, subcontractors and assig	ns XENCO's standard terms and conditi	ons of service unless previously	negiotiated under a fully executed client contract.



Work Order #: 495738

### **XENCO Laboratories** Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 10/22/2014 04:50:00 PM

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)?		5
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shipping cor	ntainer/ cooler?	No
#5 Custody Seals intact on sample bottle	es?	No
#6 *Custody Seals Signed and dated?		No
#7 *Chain of Custody present?		Yes
#8 Sample instructions complete on Cha	in of Custody?	Yes
#9 Any missing/extra samples?		No
#10 Chain of Custody signed when reline	quished/ received?	Yes
#11 Chain of Custody agrees with sampl	le label(s)?	Yes
#12 Container label(s) legible and intact	?	Yes
#13 Sample matrix/ properties agree with	n 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 indicat	ed test(s)?	Yes
#18 All samples received within hold time	e?	Yes
#19 Subcontract of sample(s)?		No
#20 VOC samples have zero headspace	(less than 1/4 inch bubble)?	N/A
#21 <2 for all samples preserved with HI samples for the analysis of HEM or HEM-analysts.		N/A
#22 >10 for all samples preserved with N	laAsO2+NaOH, ZnAc+NaOH?	N/A
* Must be completed for after-hours de Analyst:	elivery of samples prior to placing in PH Device/Lot#:	the refrigerator
Checklist completed by:  Checklist reviewed by:	Kelsey Brooks	Date: 10/22/2014
Checklist reviewed by:	Kelsey Brooks	Date: 10/23/2014

## **Appendix E**

**Waste Manifests** 



This Memo	randu	Bill of Lading, nor a copy of	at a Bill of Lading has been is or duplicate, covering the prop	ssued and is not Origi erty named herein, and	nal is	Shipper No	I/A	
Page1_ c	of <u>1</u>	intended solely for filling of	(Name of ca	arrier)	(SCAC)	Carrier No	8/6	114
	ents, the letters	s "COD" must appear before consignee's name or as	s otherwise provided in Item 430, Sec.1.	FROM: Holly	Energy Partne	rs-RJU Sou	th	
<b>FO:</b> Consignee R36	0 Hal	fWay Facility		Snipper	s SW of Loco I			· · · · · · · · ·
Street Mil	.e Mar	ker 66, Carlsbad HWY	Υ.			kan a seen	Zip Code	
City Hob	bs	State NM	Zip Code	24 hr. Emergency Co	( 478	2) 553-168	1	
Route					, *	Vehicle Number		1
No. of Units & Container Type	HM	17=3	ASIC DESCRIPTION Shipping Name, Hazard Class	, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
DT		NON DOT-Regulated M	aterial(soil),RCR	A Non-exempt	1749	Y		11
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34, 370 Sept. 30		ENDERED: YES  NO		REMIT C.O.D. TO:				
specifically in writing the agreed or declared value be not exceeding.	agreed or de of the propert	Ident on value, shippers are required to state sclared value of the property, as follows: "The y is hereby specifically stated by the shipper to per "" specify a limitation of the carrier's liability absent	consignment are fully and accurately	COD	Amt: \$	C.O.D. PREPA COLLE	ID 🗆	
a release or a value de the carrier's liability or de provided by such provisio (3) Commodities requirin must be so marked and p	eclaration by to eclare a value, ens. See NMFC og special or ac packaged as to . Freight Bills a	he shipper and the shipper does not release the carrier's liability shall be limited to the extent tem 172. dditional care or attention in handling or stowing ensure safe transportation. See Section 2(e) of and Statements of Charces and Section 1(a) of	in all respects in proper condition for transport according to applicable international and national governmental regulations.  Signature	Subject to Section 7 of the c consignee without recourse of following statement: The carrier shall not make freight and all other lawful chai	Ψ.	payment of FREIGHT except wh	EIGHT CHAI	eck box if charges are to be
I the ter (th point)	RECEIVED, sub e property desc its of packages the word carrier ssession of the tion, if on its ro	plet to the classifications and tariffs in effect on the da ribed above in apparent good order, except as note is unknown), marked, consigned, and destined as it being understood throughout this contract as mer property under the contract) agrees to carry to its us use, otherwise to deliver to another carrier on the re geaff "carrier of all or any of, said property over all c	te of the issue of this Bill of Lading, ed (contents and condition of con- ndicated above which said carrier ining any person or corporation in sual place of delivery at said desti- bute to said destination. It is mutu-	tination and as to each performed hereunder sification on the date Shipper hereby	certifies that he is familiar with a on and the said terms and condition	g terms and conditions in II the lading terms and	every service to the governing of conditions in	the
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### is an acknowledgment that a Bill of Lading has been issued and is not Original Shipper No. N/A This Memorandum Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record. Carrier No. N/A avacre He (SCAC) On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1. FROM: Holly Energy Partners-RJU South Shipper TO: R360 HalfWay Facility Consignee 4 miles SW of Loco Hills, NM Street Mile Marker 66, Carlsbad HWY Street State Zip Code City Eddy County MM Hobbs State Zip Code City (432)553 - 168124 hr. Emergency Contact Tel. No. \_ Vehicle Route Number TOTAL QUANTITY WEIGHT CHARGES BASIC DESCRIPTION HM No. of Units RATE (Weight, Volume, (Subject to (For Carrier UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group & Container Type Gallons, etc.) Correction) Use Only) NON DOT-Regulated Material (soil), RCRA Non-exempt Y DT PLACARDS TENDERED: YES - NO -REMIT C.O.D. TO: ADDRESS Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding per I hereby declare that the contents of thi consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are C.O.D. FEE: PREPAID | COLLECT | agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding per (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172 and the shipper does not release (3) Commodifies requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles. COD Amt: \$ in all respects in proper condition for transport according to applicable international and national governmental Subject to Section 7 of the conditions, if this shipment is to be delivered to the insignee without recourse on the consigner, the consignor shall sign the TOTAL CHARGES consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. FREIGHT CHARGES tination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing clas-sification on the date of shipment. Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if is not its route, otherwise to deliver to another carrier on the route to said destination. It is multi-ally agreed as to each carrier of all or any of, said property over all or any portion of said route to des-SHIPPER PER PER DATE

### is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is This Memorandum Shipper No. N/A intended solely for filing or record. Carrier No. N/A 8-27-19 Page \_\_\_\_1 of \_1 (Name of carrier) (SCAC) On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1. FROM: Holly Energy Fartners-RJU South TO: Shipper R360 HalfWay Facility Consignee 4 miles SW of Loco Hills, NM Street Mile Marker 66, Carlsbad HWY Street City State MM Zip Code Eddy County Hobbs MM State City Zip Code (432)553 - 168124 hr. Emergency Contact Tel. No. Vehicle Route Number BASIC DESCRIPTION **TOTAL QUANTITY** WEIGHT CHARGES HIM No. of Units (Weight, Volume, (Subject to RATE (For Carrier UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group & Container Type Gallons, etc.) Correction) Use Only) NON DOT-Regulated Material (soil), RCRA Non-exempt 20 DT PLACARDS TENDERED: YES Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding — per — (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not rolease the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172. (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of litem 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles. COD TO I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. ADDRESS C.O.D. FEE: PREPAID | COLLECT | COD Amt: \$ Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement. The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. TOTAL CHARGES regulations. FREIGHT CHARGES FREIGHT PREPAID except when box at right is checked Check box if cha Signature (Signature of Consignor) tination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lating terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destinations.

	nation, if on its route, otherwise to deliver to another carrier on the route to said destination, it is mutu- ally agreed as to each carrier of all or any of, said property over all or any portion of said route to des-	accepted for himself and his assigns.	
SHIPPER	Hope Chin on Behol of 1/1/2 Enry	CARRIER RELATIVE	
PER	Olyn Winney	PER	D D
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Page $\underline{1}$ of $\underline{1}$		(Name of ca	urrier)	(SCAC)	Date_		2
On Collect on Delivery shipments, the I	ellers "COD" must appear before consignee's name or a	s olherwise provided in Item 430, Sec.1.	FROM: Holly Shipper	Energy Partn	ers-RJU So	uth	
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Street Mile Ma	arker 66, Carlsbad HW	У	City Eddy	County	State NM	Zip Code	
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No. of Units & Container Type	WIII	ASIC DESCRIPTION Shipping Name, Hazard Class,	, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
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the property tents of pac (the word or possession or nation, if on	O, subject to the classifications and tariffs in effect on the de described above in apparent good order, except as not kages unknown), marked, consigned, and destined as arrier being understoed throughout this contract as mea of the property under the contract) agrees to carry to its u its route, otherwise to deliver to another carrier on the re as to each carrier of all or any of, said property over all c	ed (contents and condition of con- ndicated above which said carrier ning any person or corporation in sual place of delivery at said dosti- oute to said destination. It is mutu-	tination and as to each performed hereunder si sification on the date Shipper hereby	h party at any time interested in a hall be subject to all the bill of la of shipment. certifies that he is familiar wit on and the said terms and condi-	ding terms and conditions h all the lading terms ar	in the governing c nd conditions in	las- the
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Shipp	er No.	N/A	

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Page1_ of	1	(Name of ca	urrier)	(SCAC)	Date _	8-5.	7-24	
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City Hobbs	State IVM Z	Zip Code	24 hr. Emergency Con	County  ntact Tel. No(4	State NM (32)553-168	Zip Code	1	
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a release or a value declaration the carrier's liability or declare a v provided by such provisions. See I (3) Commodities requiring specia must be so marked and packaged	n by the shipper and the shipper does not release in value, the carrier's liability shall be limited to the extent NMFC ltem 172.  If or additional care or attention in handling or stowing read as to ensure safe transportation. See Section 2(e) of Bills and Statements of Charges and Section 1(a) of	narked and labelled/placarded, and are all respects in proper condition for ransport according to applicable ternational and national governmental egulations.  Signature	Subject to Section 7 of the co- consignee without recourse or following statement: The carrier shall not make freight and all other lawful charge	onditions, if this shipment is to be an the consignor, the consignor delivery of this shipment withough.	delivered to the shall sign the CHAR out payment of FREIGHT	GES \$ REIGHT CHAR PREPAID Che	GES ck box if charges are to be collect	
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is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

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ю:		COD* must appear before consignee's name or a	s otherwise provided in Item 430, Sec. 1.	FROM: Holly	Energy Partn	ers-RJU Sou	ith		
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Street Mil	e Mark	er 66, Carlsbad HW		City Eddy	County	State NM	Zip Code		
City Hobb	)S	State NM	Zip Code	24 hr. Emergency Co	ontact Tel. No.	132)553-168	1		
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No. of Units & Container Type	HM		ASIC DESCRIPTION Shipping Name, Hazard Class	s, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)	
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TO:		COD" must appear before consignee's name or a	s otherwise provided in Item 430, Sec.1.	FROM: Holly	Energy Partn	ers-RJU So	outh		
Consignee R36	0 HalfV	Way Facility		Street 4 mile	s SW of Loco	Hills, NM			
Street Mil	e Marke	er 66, Carlsbad HW	Α	City Eddy	County	State NM	Zip Code		
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го:				as otherwise provided in Item 430, Sec.1.	FROM: Holly	Energy Partn	ers-RJU	J Sout	h :	
Consignee R.	360 Ha.	LIWay	Facility		Street 4 mile	s SW of Loco	Hills,	NM	*	
Street	ile Mar	cker (	i6, Carlsbad HW	Υ	City Eddy	County	State M	M Zip	Code	
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Consignee R36	0 Hali	fWay Facility		Street 4 mile	s SW of Loco	Hills, NM		
Street Mil	e Mar}	er 66, Carlsbad HW	Y	City Eddy	County	State NM	Zip Code	
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No. of Units & Container Type	HM	0	ASIC DESCRIPTION r Shipping Name, Hazard Class	, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
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the tents (the poss natio	ECEIVED, subjective property description of packages word carrier bession of the pon, if on its rou	list of such articles.  ect to the classifications and tariffs in effect on the debed above in apparent good order, except as not unknown), marked, consigned, and destined as leeing understood throughout this contract as mea property under the contract) agrees to carry to its ute, otherwise to deliver to another carrier on the rach carrier of all or any of, said property over all or any of, said property over all	ed (contents and condition of con- indicated above which said carrier ming any person or corporation in sual place of delivery at said desti- oute to said destination. It is mutu-	tination and as to each performed hereunder sh sification on the date of Shipper hereby of	certifies that he is familiar with a in and the said terms and condition	or any said property, that og terms and conditions in all the lading terms an	t every service to the governing of d conditions in	be las-
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illis Mellioralidalli		Bill of Lading, nor a	n acknowledgment that a Bill of Lading has been issued and is not Original of Lading, nor a copy or duplicate, covering the property named herein, and is nded solely for filing or record.					Shipper No. N/A				
			interlace solely for	illing of record.			Carrier No. N/A					
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On Collect on Deliv <b>TO:</b> Consignee			*COD* must appear before consignee's a	name or as otherwise provided in Item 430, Sec.1.	Snipper	y Energy Part			th			
			ker 66, Carlsbac	Hav	Street 4 mi.	les SW of Loc	Hills	, NM		·		
Street	V dala da S	2 Mar.	or our carronac	Y 7104 Y	City Edd	y County	State 1	M Z	Zip Code			
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Route	17			168				Vehicle Number				
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specifically in wagreed or declar	riting the a red value of	greed or de f the property	dent on value, shippers are required clared value of the property, as follow is hereby specifically stated by the sh	vs: "The consignment are fully and accurate hipper to described above by the proper shipping	ly O O D	S. C. W.		C.O.D. FI	EE:			
a release or a the carrier's liab	value decla ility or decla	aration by th are a value, t	per	release in all respects in proper condition f	Subject to Section 7 of	Amt: \$ the conditions, if this shipment is to be	pe delivered to the	PREPAID COLLECT	Τ□ \$			
(3) Commodities must be so mark item 360, Bills of	h provisions s requiring : ked and pac of Lading, F	. See NMFC special or ad ckaged as to reight Bills a	ltem 172. ditional care or attention in handling or ensure safe transportation. See Sectior nd Statements of Charges and Section	stowing n 2(e) of 1 1(a) of	consignee wilhout recour following statement: The carrier shall not freight and all other lawful	se on the consignor, the consign make delivery of this shipment wi	or shall sign the	CHARGE	GHT CHAR	GES ck box if charges are to be		
tne Contract Ter	RE	CEIVED, subj	list of such articles. ect to the classifications and tariffs in effect	on the date of the issue of this Bill of Lading,	lination and as to	(Signature of Consignor) each party at any time interested in	all or any said pro	right is check operty, that eve	ery service to	collect		
	tents (the posse nation	of packages word carrier t ession of the p n <sub>e</sub> if on its rou	unknown), marked, consigned, and desti- peing understood throughout this contract property under the contract) agrees to carry te, otherwise to deliver to another carrier	pt as noted (contents and condition of con- ined as indicated above which said carrier t as meaning any person or corporation in y to its usual place of delivery at said desti- on the route to said destination. It is mutu- over all or any portion of said route to des-	sification on the d Shipper here governing classifi	er shall be subject to all the bill of late of shipment. by certifies that he is familiar w cation and the said terms and con- self and his assigns.	ith all the lading	terms and co	onditions in t	he		
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ally agreed as to each carrier of all or any of, said property over all or any portion of said route to des-	accepted for nimsell and his assigns.

Hobbs

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On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

MM

R360 HalfWay Facility

State

Mile Marker 66, Carlsbad HWY

Page \_\_\_\_1\_ of \_\_1

Consignee

Street

City

Route

No. of Units

& Container Type

DT

is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Zip Code

**BASIC DESCRIPTION** 

UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group

NON DOT-Regulated Material (soil), RCRA Non-exempt

(Name of carrier)

FROM:

Street

City

Shipper

24 hr. Emergency Contact Tel. No.

not Origir erein, and		Shipper No. N/A				
		Carrier No. N/A				
		ī	Date	8-2	7-14	
	(SCAC)					
Holly	Energy Partn	ers-RJ	U Sou	th		
mile	s SW of Loco	Hills,	NM	1		
Eddy (	County	State N	M Z	ip Code		
gency Cor	ntact Tel. No(4	32) 553	-1681	-	Б	
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up	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIC (Subje Correc	ct to	RATE	CHARGES (For Carrier Use Only)	
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G.O.D. FEE: PREPAID □ COLLECT □ \$						
on 7 of the conditions, if this shipment is to be delivered to the recourse on the consignor, the consignor shall sign the all not make delivery of this shipment without payment of r lawful charges.		TOTAL CHARGES \$ FREIGHT CHARGES FREIGHT PREPAID Check box if charges except when box at are to be				
nd as to each hereunder sh on the date o per hereby c g classification	gnature of Consignor)  party at any time interested in all all be subject to all the bill of lad f shipment.  ertifles that he is familiar with n and the said terms and conditi- nd his assigns.	ing terms and co all the lading	right is check perty, that ev anditions in the terms and c	ery service to e governing c onditions in	be las-	
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Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding — per (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(o) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

PLACARDS TENDERED: YES 
NO

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. regulations.

Signature

ADDRESS

REMIT C.O.D. TO:

COD Amt: \$

Subject to Section 7 of the conditions, if this shipme consignee without recourse on the consigner, the following statement: The carrier shall not make delivery of this ship freight and all other lawful charges.

(Signature of Consignor)

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination.

tination and as to each party at any time inter performed hereunder shall be subject to all the stification on the date of shipment. Shipper hereby certifies that he is far governing classification and the said terms a

any agreed as to each carrier of an or any of, sale property over an or any portion or sale route to des-					
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CARRIER

DATE

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STYLE CF375-4 © 2012 LABELI ASTER® (800) 621-5808 www.labelmaster.com

# **This Memorandum**

is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

	Shipper			
				7-14
irtne	ers-RJ	J Sou	th.	*
oco	Hills,	MM		·
	State N	M Z	ip Code	
(4	32) 553	-1681 Vehicle	71	
ITITY	WEIG	Number		CHARGES
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Page1 o	f1_		(Name of c	arrier)	(SCAC)	Da	ate _ <u>&amp; ~ &lt;</u>	1-17
го:		*COD* must appear before consignee's name of	or as otherwise provided in Item 430, Sec.1.	Shipper	Energy Partne			
M-1		cer 66, Carlsbad H	WY	Street 4 mile	s SW of Loco I	illis,	NM	
Street	0 8444	a new part of the contract of		City Eddy	County	State NM	Zip Code	
City Hobl	)5	State NM	Zip Code	24 hr. Emergency Co	ntact Tel. No(43	12) 553-	1681	
Route							Vehicle Number	
No. of Units & Container Type	HM	UN or NA Number, Prop	BASIC DESCRIPTION per Shipping Name, Hazard Class	s, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGH (Subject Correction	to RATE	CHARGES (For Carrier Use Only)
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specifically in writing the agreed or declared value be not exceeding	agreed or de of the property	dent on value, shippers are required to sta clared value of the property, as follows: "T y is hereby specifically stated by the shipper per reper specify a limitation of the carrier's liability abse	to described above by the proper shipping name and are classified, packaged	ADDRESS	Amt: \$	10	C.O.D. FEE: PREPAID  COLLECT  \$	
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A the tent (the pos nati	ECEIVED, subj property descr s of packages word carrier i session of the on, if on its ro	ect to the classifications and tariffs in effect on the ibed above in apparent good order, except as unknown), marked, consigned, and destined being understood throughout this contract as properly under the contract) agrees to carry to it ule, otherwise to deliver to another carrier on the acch carrier of all or any of, said properly over	e date of the issue of this Bill of Lading, noted (contents and condition of con- sis indicated above which said carrier neaning any person or corporation in s usual place of delivery at said desti- e route to said destination. It is multu-	tination and as to each performed hereunder si sification on the date of Shipper hereby	n party at any time interested in all of hall be subject to all the bill of lading of shipment. certifies that he is familiar with a on and the said terms and condition	r any said prope terms and cond	rty, that every service to litions in the governing o ms and conditions in	be las-
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DATE

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Page1_ c	of1		(Name of c	arrier)	(SCAC)	Date	-0 c	· · · / ·	
ro:		°COD⁻ must appear before consignee's name o	r as olherwise provided in Item 430, Sec.1.	FROM: Holly Shipper	Energy Partn	ers-RJU S	outh		
Consignee R36	0 Hali	Way Facility		Street 4 mile	s SW of Loco	Hills, NM	ĩ		
Street Mil	e Marl	er 66, Carlsbad H	VΥΥ	City Eddy	County	State NM	Zip Code		
City Hob	DS	State NM	Zip Code	24 hr. Emergency Co	ntact Tel. No(4	132)553-16	81		
Route	-					Veh Nun			
No. of Units & Container Type	НМ		BASIC DESCRIPTION er Shipping Name, Hazard Class	, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)	
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CARRIER SHIPPER PER PER DATE 4

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го:		"COD" must appear before consignee's name or as o	therwise provided in Item 430, Sec.1.	FROM: Holly	Energy Partn	ers-RJU	South		
Consignee R36	0 Hali	EWay Facility		Street 4 mile	s SW of Loco	Hills; N	IM		
Street Mil	e Marl	er 66, Carlsbad HWY		City Eddy	County	State NM	Zip Code		
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Permaner	nt post-offic	ce address	of shippe	er.	CAC) PROPRIE	ON RECYCLED BAFER A PRINTED W	itie)	STYLE CF375-4	© 2012 LABEL <b>M</b> ASTER	(800) 621-58	08 www.la	abelmaster.d	om

# This Memorandum

is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

		intended solely for filing	or record.			Carrier No	N/A	
agel_ (	of1	<u> </u>	(Name of	carrier)	(SCAC)	Date _	8-7	7-1-
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	60 Hal:	fWay Facility			s SW of Loco	Hills, NM		
reet Mi.l	le Marl	ker 66, Carlsbad HW	Y	Same			Zip Code	
ty Hob	bs	State NM	Zip Code	24 hr. Emergency Co	o o one o y	32)553-168		1.1
oute				Z-Till. Emolganoy oc	made Fol. No.	Vehicl Numb	e	
No. of Units & Container Type	НМ		ASIC DESCRIPTION Shipping Name, Hazard Clas	s, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
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ote — (1) Where the	rate is depend	NDERED: YES NO Defent on value, shippers are required to state clared value of the property, as follows: "The		REMIT C.O.D. TO: ADDRESS				
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ne carrier's liability or dec rovided by such provision B) Commodities requiring rust be so marked and p	clare a value, to ns. See NMFC g special or add ackaged as to Freight Bills a	he carrier's liability shall be limited to the extent litem 172. dilional care or attention in handling or stowing ensure safe transportation. See Section 2(e) of not Statements of Charces and Section 1(a) of	transport according to applicable international and national governmental regulations.  Signature	Subject to Section 7 of the or consignee without recourse o following statement: The carrier shall not make freight and all other lawful chan	onditions, if this shipment is to be do n the consignor, the consignor si e delivery of this shipment without ges.	hall sign the CHARG	EIGHT CHAR	GES ck box if charges are to be collect
the tent (the pos nati	property descri ts of packages word carrier b session of the p ion, if on its rou	ect to the classifications and tariffs in effect on the da bed above in apparent good order, except as note unknown), marked, consigned, and deslined as in einig understood throughout this contract as mear roperty under the contract) agrees to carry to its us to, otherwise to deliver to another carrier on the ach carrier of all or any of, said property over all o	to of the issue of this Bill of Lading, and (contents and condition of con- dicated above which said carrier dicated above which said carrier ing any person or corporation in sual place of delivery at said desti- ute to said destination. It is mutu-	tination and as to each performed hereunder sh sification on the date of Shipper hereby of	party at any time interested in all all be subject to all the bill of ladin of shipment. certifies that he is familiar with a n and the said terms and condition	or any said property, that eg g terms and conditions in t the lading terms and	every service to the governing cla	be as-
HIPPER /	16/14	Energy Papers		CARRIER \/)	cente	gon-	ZN	
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Permanent post-office address of shipper.

Shipper No. N/A

This Memo	<b>This Memorandum</b> is an acknowledgment that a Bill of Lading has be Bill of Lading, nor a copy or duplicate, covering the intended solely for filling or record.					Shipper No. N/A			
		interloca solely for filling	or record.			Carrie	No1		
B 1	. 1					ĺ	Date	8-	27-14
Page1 o	Of	_	(Name of c	carrier)	(SCAC)				
On Collect on Delivery shipm	nents, the letters	s "COD" must appear before consignee's name or	as otherwise provided in Item 430, Sec.1.	FROM: Holly Shipper	Energy Partn	ers-RJ	U Sou	th	
	0 Hal	fWay Facility		Street 4 miles SW of Loco Hills, NM					
Street Mil	e Marl	ker 66, Carlsbad HW	Y	\(\sec\)	County	State N	114 2	Zip Code	0 1
City Hob	bs	State	Zip Code	24 hr. Emergency Contact Tel. No. (432) 553-1681					
Route							Vehicle Numbe		
No. of Units & Container Type	HM	Company of the control of the contro	ASIC DESCRIPTION r Shipping Name, Hazard Class	s, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIG (Subje Corre	ect to	RATE	CHARGES (For Carrier Use Only)
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the Contract Terms and C	Conditions for a	AND CONTROL OF THE PROPERTY OF	Signature	10	Signature of Consignor)		except when right is check	box at	are to be collect
F the	RECEIVED, subj property descri	ect to the classifications and tariffs in effect on the da ibed above in apparent good order, except as not	ate of the issue of this Bill of Lading, ed (contents and condition of con-	tination and as to each performed hereunder sh	n party at any time interested in a nall be subject to all the bill of lac	ll or any said pro ding terms and co	perty, that ev	rery service to ne governing cl	be as-

the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as inclicated above which said carrier the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to des-

silication on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

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PER den dang on behalfor Holly Errory PEI	PER 3
	DATE 8-27-14

#### is an acknowledgment that a Bill of Lading has been issued and is not Original This Memorandum Shipper No. N/A Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record. Carrier No. N/A Page 1 of 1 (Name of carrier) (SCAC) On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1. FROM: Holly Energy Partners-RJU South TO: Shipper R360 HalfWay Facility Consignee 4 miles SW of Loco Hills, NM Street Mile Marker 66, Carlsbad HWY Street City Eddy County State MM Zip Code Hobbs MM City State Zip Code (432) 553-1681 24 hr. Emergency Contact Tel. No. Vehicle Route Number BASIC DESCRIPTION **TOTAL QUANTITY** WEIGHT CHARGES HM No. of Units RATE (Weight, Volume, (Subject to (For Carrier UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group & Container Type Use Only) Gallons, etc.) Correction) NON DOT-Regulated Material (soil), RCRA Non-exempt DT PLACARDS TENDERED: YES NO 🖂 C.O.D. TO: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. ADDRESS C.O.D. FEE: PREPAID | COLLECT | COD Amt: \$ Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consigner, the consigner shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. TOTAL CHARGES \$ regulations. FREIGHT CHARGES FREIGHT PREPAID except when box at right is checked Check box if charges Signature (Signature of Consignor)

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if is not its route, otherwise to deliver to enother carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to des-

lination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER LEND QUINDEY	on behelf of Holly Charge
PER MA	8.78.4

CARRIER PER

DATE

# This Memorandum

is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper No.	N/A	-40
Carrier No.	N/A	

Page <u>1</u> of	1		Name of ca	arrier)	(SCAC)	Date _	8-	28-14
On Collect on Delivery shipmen	ils, the letters	"COD" must appear before consignee's name or as otherwise provided in Item 434	0, Sec.1.	FROM: Holly	Energy Partne	ers-RJH So	uth	
TO: Consignee R360	Hal:	EWay Facility	ı	Shipper				· 
Street Mile	Mar	er 66, Carlsbad HWY		Street 4 TILLE	s SW of Loco	HIIIS, NM		-
Street		177		City Eddy	County	State NM	Zip Code	
City Hobb	5	State NM Zip Code		24 hr. Emergency Co	ntact Tel. No(4	32)553-168		
Route	(a)					Vehic Numb		
No. of Units & Container Type	HM	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Haza		, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	(For Carrier Use Only)
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specifically in writing the ac	greed or dea	lent on value, shippers are required to state lared value of the property, as follows: "The consignment are fully and is hereby specifically stated by the shipper to per	accurately per shipping	ADDRESS		C.O.D.	, FEE;	
(2) Where the applicable tarif a release or a value decla	ration by th	per name and are classified, marked and labelled/placard behipper and the shipper does not release in all respects in proper core carrier's liability shall be limited to the extent transport according to	ed, and are ondition for	COD Subject to Section 7 of the co	Amt: \$	COLLE	AID   \$	
must be so marked and pack	pecial or ade kaged as to eight Bills a	tem 172. iitlional care or attention in handling or stowing regulations. ensure safe transportation. See Section 2(e) of additional and national governments of Charges and Section 1(a) of	vernmental Signature	following statement: The carrier shall not make freight and all other lawful charg	the consignor, the consignor si delivery of this shipment without es.	payment of FF	REIGHT CHAR	IGES ck box if charges are to be collect
the protection of the protecti	operty descri of packages vord carrier b ssion of the p , if on its rou	act to the classifications and tariffs in effect on the date of the issue of this Bill of Ladin bed above in apparent good order, except as noted (contents and condition of co unknown), marked, consigned, and destined as indicated above which said carri eing understood throughout his contract as meaning any person or copporation roperly under the contract) agrees to carry to its usual place of delivery at said des et, otherwise to deliver to another carrier on the route to said destination. It is mut ach carrier of all or any of, said property over all or any portion of said route to de	on- ier in sti- lu-	tination and as to each performed hereunder sh sification on the date o Shipper hereby c	party at any time interested in all all be subject to all the bill of ladin f shipment. ertifies that he is familiar with a n and the said terms and condition	or any said property, that g terms and conditions in	every service to the governing cl	as- he
SHIPPER (	in W.	many on brhallet thely come	4	CARRIER A	5#1 6	-1/2		
PER \\	9	41-85-8		PER	an			_ 5
	7	· ·		DATE	8-28-14			

This Memo	randu	bill of Lading, nor a copy	or duplicate, covering the prop			Shipper No	N/A	
		intended solely for filing	or record.			Carrier No.	N/A	
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Page1_ o	f_1_	=	(Name of ca	arrier)	(SCAC)	Date _	8	1
·O:		'COD" must appear before consignee's name or a	as otherwise provided in Item 430, Sec.1.	FROM: Holly	Energy Partne	ers-RJU So	ith	ř.
Consignee R36	O Hali	Way Facility	<del>,</del>	Street 4 mile	s SW of Loco	Hills, NM		
Street Mil.	e Mark	er 66, Carlsbad HW	Y	City Eddy	County	State NM	Zip Code	
City Hobb	S	State NM	Zip Code	24 hr. Emergency Co	intact Tel. No(4	32)553-168	1	
Route				(A-17)		Vehic Numb		
No. of Units & Container Type	HM		ASIC DESCRIPTION Shipping Name, Hazard Class	, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
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a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent transport according to applic provided by such provisions. See NMFC Item 172.  (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of Item Contract Terms and Conditions for a list of such articles.  Signal				bible Subject to Section 7 of the conditions, if this shipment is to be delivered to the characteristic consigner without recourse on the consignor, the consignor shall sign the consigner without recourse or the consignor shall sign the consign shall sign shall sign shall sign shall sign shall sha			EIGHT CHAR PREPAID Che	GES ck box if charges are to be collect
RE the p tents (the poss natio	CEIVED, subjection of packages to word carrier be ession of the property of th	of to the classifications and tariffs in effect on the dated above in apparent good order, except as not inknown), marked, consigned, and destined as it ingu understood throughout this contract as as eacoperly under the contract) agrees to carry to its us, otherwise to deliver to another carrier on the roth carrier of all or any of, said property over all of the carrier of all or any of, said property over all of the carrier of all or any of, said property over all or the carrier of all or any of, said property over all or the carrier of all or any of, said property over all or the carrier of all or any of, said property over all or the carrier of all or any of, said property over all or the carrier of all or any of, said property over all or the carrier of all or any of, said property over all or the carrier of all or any of, said property over all or the carrier of all or any of, said property over all or the carrier of all or any of the carrier of all or a	te of the issue of this Bill of Lading, ed (contents and condition of con- indicated above which said carrier ining any person or corporation in sual place of delivery at said desti- vute to said destination. It is multi-	tination and as to each performed hereunder sh sification on the date of Shipper hereby of	certifies that he is familiar with a n and the said terms and condition	g terms and conditions in all the lading terms and	every service to the governing cla conditions in the	be as-
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8-78-14 DATE



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Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.				Snipper No. N/A				
		intended solely for filing	or record.			Carrier No	). N/A	
						Det	e 8-2	8-14
Page1_ o	f_1_	<del></del>	(Name of ca	arrier)	(SCAC)	Dat	e () c	0 - /
On Collect on Delivery shipme	nts, the letters	*COD* must appear before consignee's name or	as otherwise provided in Item 430, Sec.1.	FROM: Holly	Energy Partne	ers-RJU	South	
Consignee R36	0 Hali	fWay Facility		Street 4 mile	s SW of Loco	Hills, N	1M	
Street Mile	a Mark	ker 66, Carlsbad HW	IX	City Eddy	County	State NM	Zip Code	
City Hobb	S	State NM	Zip Code	24 hr. Emergency Co	ontact Tel. No(4	32) 553-1	.681	
Route							ehicle umber	
No. of Units & Container Type	НМ	75	BASIC DESCRIPTION r Shipping Name, Hazard Class	, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction	RATE	CHARGES (For Carrier Use Only)
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Note — (1) Where the ra	ate is depend	NDERED: YES NO content on value, shippers are required to state	I hereby declare that the contents of this	REMIT C.O.D. TO: ADDRESS				
specifically in writing the agreed or declared value of the property, as follows: The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding exceeding (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent		COD	Amt: \$	PF	O.D. FEE: REPAID     DLLECT     \$			
the carrier's liability or decl provided by such provisions	are a value, to See NMFC I	ne shipper and the shipper does not release the carrier's liability shall be limited to the extent ltem 172.	transport according to applicable international and national governmental	condition for applicable Subject to Section 7 of the conditions, if this shipment is to be delivered to the CHARGES :				-
<ul><li>(3) Commodities requiring must be so marked and pa</li></ul>	special or add ckaged as to Freight Bills a	ditional care or attention in handling or stowing ensure safe transportation. See Section 2(e) of and Statements of Charges and Section 1(a) of		following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.  FREIGHT CHARGES FREIGHT CHARGES Check box Oncord when box it				IGES ck box if charges are to be collect
the ptents (the poss natio	oroperty descri- of packages word carrier be ession of the p n, if on its rou	ect to the classifications and tariffs in effect on the dibed above in apparent good order, except as no unknown), marked, consigned, and destined as being understood throughout this contract as me properly under the contract) agrees to carry to its te, otherwise to deliver to another carrier on the acch carrier of all or any of, said property over all	ted (contents and condition of con- indicated above which said carrier aning any person or corporation in usual place of delivery at said desti- route to said destination. It is mutu-	performed hereunder s sification on the date Shipper hereby	certifies that he is familiar with on and the said terms and condition	ng terms and conditional three lading terms	ons in the governing class and conditions in t	as- he
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ally agreed as to each carrier of all or any of, said property over all or any portion of said route to des-	•
SHIPPER Clegg Gannay onhole It of 4011	CARRIER ROCKING
PER 8.28.14	PER
	DATE

## This Memorandum

No. N/A
No. N/A ate 8-23-/4
South
Zip Code
-1681
Vehicle Number HT CHARGES
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oute				Vehicl Numb	e er	
No. of Units & Container Type	HM	BASIC DESCRIPTION  UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
DT		NON DOT-Regulated Material (soil), RCRA Non-exempt	20	У		
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specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding per (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

consignment are tully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

REMIT C.O.D. TO: ADDRESS

COD

Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE: PREPAID | COLLECT | TOTAL CHARGES

FREIGHT CHARGES
FREIGHT PREPAID
except when box at right is checked are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if is route, otherwise to deliver to another carrier or the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to des-

tination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER ( land Quinney on behalf of Holly Enrist	CARRIER Albert MANTINEZ Trucking # 25
PER ( 8-78-14	PER 3
)	DATE 8.28-14

# This Memorandum

is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper No.	N/A
Carrier No.	N/A

Page1_of	. 1		7	-			Date \$ - 2	8-14
Page of		<b>≓</b>	(Name of c	arrier)	(SCAC)			
TO:		s "COD" must appear before consignee's name or a	is otherwise provided in Item 430, Sec.1.	FROM: Holly	Energy Partne	ers-RJ1	U South	
Consignee R360	) Hali	fWay Facility		Street 4 mile	s SW of Loco	Hills,	MM :	
Street Mile	e Marl	ker 66, Carlsbad HW	Ŷ	City Eddy	County	State N	M. Zip Code	
City Hobb	S	State NM	Zip Code	24 hr. Emergency Co		32)553	-1681	
Route		- X			,		Vehicle Number	1
No. of Units & Container Type	HM	7.00	ASIC DESCRIPTION Shipping Name, Hazard Class	, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIG (Subje	GHT RATE	CHARGES (For Carrier Use Only)
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(2) Where the applicable tar a release or a value decl	able tariff provisions specify a limitation of the carrier's liability absent the declaration by the shipper and the shipper does not release or declare a value, the carrier's liability shall be limited to the extent visions. See NMFC Item 172. The carrier are unable transport according to applicable international and national governmental regulations.  Subject to Section 7 of the transport according to applicable international and national governmental regulations.  Subject to Section 7 of the consignee without recours following statement: The carrier shall not make and are classified, packaged, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.		COD	Amt: \$		PREPAID  COLLECT  \$		
provided by such provisions (3) Commodities requiring must be so marked and pa- item 360, Bills of Lading, F			consignee without recourse o following statement: The carrier shall not make freight and all other lawful char	Subject to Section 7 of the conditions, if this shipment is to be defivered to the consigner without recourse on the consigner, the consignor shall sign the following statement:  The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.  [Signature of Consignor]			\$ CHARGES Check box if charges are to be collect	
RE the p tents (the posse nation	CEIVED, subjectoperty description of packages word carrier bession of the part	ect to the classifications and tariffs in effect on the da bied above in apparent good order, except as not unknown), marked, consigned, and destined as i being understood threughout this contract as mea properly under the contract) agrees to carry to its us ute, otherwise to deliver to another carrier on the re acch carrier of all or any of, said properly over all of	ed (contents and condition of con- ndicated above which said carrier ning any person or corporation in sual place of delivery at said desti- pute to said destination. It is mutu-	tination and as to each performed hereunder sh sification on the date of Shipper hereby of	certifies that he is familiar with on and the said terms and condition	ng terms and co all the lading t	perty, that every service to inditions in the governing of terms and conditions in	be clas-
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#### is an acknowledgment that a Bill of Lading has been issued and is not Original This Memorandum Shipper No. N/A Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record. Carrier No. N/A Date 8-28-14 Page \_\_\_\_1\_ of \_\_1\_\_ (Name of carrier) (SCAC) On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1. FROM: Holly Energy Partners-RJU South TO: Shipper R360 HalfWay Facility Consignee 4 miles SW of Loco Hills, NM Street Mile Marker 66, Carlsbad HWY Street NM City Eddy County State Zip Code MM Hobbs State Zip Code City (432)553-168124 hr. Emergency Contact Tel. No. Vehicle Route Number TOTAL QUANTITY WEIGHT CHARGES HM BASIC DESCRIPTION No. of Units RATE (Weight, Volume, (Subject to (For Carrier UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group & Container Type Gallons, etc.) Correction) Use Only) NON DOT-Regulated Material (soil), RCRA Non-exempt DT PLACARDS TENDERED: YES - NO -REMIT C.O.D. TO: Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding per I hereby declare that the contents of this ADDRESS I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. C.O.D. FEE: PREPAID | COLLECT | agreed or declared value of the property is hereby specifically stated by the shipper to per [2] Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's fiability or declare a value, the carrier's fiability shall be limited to the extent provided by such provisions. See NMFC Item 172. [3] Commodifies requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure sale transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles. COD Amt: \$ Subject to Section 7 of the conditions, if this shipment is to be delivered to the consigner without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. TOTAL CHARGES FREIGHT CHARGES THE PREPAID Check box if charges are to be collect FREIGHT PREPAID except when box at right is checked (Signature of Consignor)

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if is mutually arrived as to each carrier of all or any of, said property over all or any portion of said route to destination.

tination and as to each party at any time interested in all or any said property, that every service to be performed herounder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

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possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination.

accepted for himself and his assigns.

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#### is an acknowledgment that a Bill of Lading has been issued and is not Original This Memorandum Shipper No. N/A Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record. Carrier No. N/A Sweet Cortwelor Page \_\_\_\_1\_ of \_\_1\_ (SCAC) On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1. FROM: Holly Energy Partners-RJU South Shipper R360 Halfway Facility Consignee 4 miles 3W of Loco Hills, NM Street Mile Marker 66, Carlsbad HWY Street City State MM Zip Code Eddy County MM Hobbs City State Zip Code (432)553 - 168124 hr. Emergency Contact Tel. No. Vehicle Route Number BASIC DESCRIPTION TOTAL QUANTITY WEIGHT CHARGES HM No. of Units (Weight, Volume, (Subject to RATE (For Carrier UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group & Container Type Gallons, etc.) Correction) Use Only) NON DOT-Regulated Material (soil), RCRA Non-exempt Y DT PLACARDS TENDERED: YES . NO . REMIT Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding per (2) Where the applicable tarilf provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC them 172. (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of them 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles. C.O.D. TO: ADDRESS I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are labelled. C.O.D. FEE: PREPAID | COLLECT | COLL COD Amt: \$ in all respects in proper condition fo transport according to applicable Subject to Section 7 of the conditions, it this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and other lawful charges. TOTAL CHARGES transport according to applicable international and national governmental FREIGHT CHARGES FREIGHT PREPAID except when box at right is checked Signature (Signature of Consignor) RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if is route, otherwise to deliver to another carrier on the route to said destination, it is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed horounder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment. ation on the date of shipment. Shipper hereby certifies that he is familiar with all the lading terms and conditions in the eming classification and the said terms and conditions are hereby agreed to by the shipper and governing classification and the said accepted for himself and his assigns. CARRIER PARS SHIPPER

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#### is an acknowledgment that a Bill of Lading has been issued and is not Original This Memorandum Shipper No. N/A Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record. Carrier No. N/A Sweath Porshveton Date 8-29-14 Page 1 of 1 On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1. FROM: Holly Energy Partners-RJU South TO: Shipper R360 HalfWay Facility Consignee 4 miles SW of Loco Hills, NM Street Mile Marker 66, Carlsbad HWY Street City State MM Zip Code Eddy County Hobbs State City Zip Code (432) 553-1681 24 hr. Emergency Contact Tel. No. .... Vehicle Route Number BASIC DESCRIPTION **TOTAL QUANTITY** WEIGHT **CHARGES** HM No. of Units (Weight, Volume, (Subject to RATE (For Carrier UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group & Container Type Use Only) Gallons, etc.) Correction) NON DOT-Regulated Material (soil), RCRA Non-exempt Y DT PLACARDS TENDERED: YES NO REMIT Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding per (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172. (3) Commodilies requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 369, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles. C.O.D. TO: I hereby declare that the contents of this ADDRESS I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. C.O.D. FEE: PREPAID | | | COLLECT | | COD Amt: \$ Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of relight and all other lawful charges. TOTAL CHARGES \$ regulations. FREIGHT CHARGES FREIGHT PREPAID except when box at right is checked Check box if charges are to be Signature (Signature of Consignor) RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutulination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns. ally agreed as to each carrier of all or any of, said property over all or any portion of said route to des SHIPPER CARRIER PER PER

### is an acknowledgment that a Bill of Lading has been issued and is not Original Shipper No. N/A This Memorandum Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record. Carrier No. N/A Sweat for Page \_\_\_\_\_1\_ of \_\_1\_ On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1. FROM: Holly Energy Partners-RJU South Shipper R360 HalfWay Facility Consignee 4 miles SW of Loco Hills, NM Street Mile Marker 66, Carlsbad HWY Street State MM Zip Code City Eddy County Hobbs MM Zip Code State City (432)553 - 168124 hr. Emergency Contact Tel, No. -Vehicle Route Number CHARGES TOTAL QUANTITY WEIGHT BASIC DESCRIPTION HM No. of Units RATE (Weight, Volume, (Subject to (For Carrier UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group & Container Type Correction) Use Only) Gallons, etc.) Y NON DOT-Regulated Material (soil), RCRA Non-exempt DT PLACARDS TENDERED: YES - NO -REMIT Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding — per (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172. (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles. I hereby declare that the contents of this **ADDRESS** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. C.O.D. FEE: PREPAID | COLLECT | COD Amt: \$ Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the oldowing statement. The carrier shall not make delivery of this shipment without payment of relight and all other lawful charges. TOTAL CHARGES \$ FREIGHT CHARGES FREIGHT PREPAID except when box at right is checked Check box i Signature (Signature of Consignor) tination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns. RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said desti-nation, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutu-

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#### is an acknowledgment that a Bill of Lading has been issued and is not Original Shipper No. N/A This Memorandum Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record. Carrier No. N/A - Sweet Pontartin \_1\_ of \_1 (SCAC) On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1. FROM: Holly Energy Partners-RJU South Shipper R360 HalfWay Facility Consignee 4 miles SW of Loco Hills, NM Street Mile Marker 66, Carlsbad HWY Street City State NM Zip Code Eddy County MM Hobbs City State Zip Code (432)553 - 168124 hr. Emergency Contact Tel. No. \_\_\_ Vehicle Route Number WEIGHT CHARGES **TOTAL QUANTITY** BASIC DESCRIPTION HM No. of Units RATE (Weight, Volume, (Subject to (For Carrier UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group & Container Type Gallons, etc.) Correction) Use Only) NON DOT-Regulated Material (soil), RCRA Non-exempt Y DT REMIT C.O.D. TO: PLACARDS TENDERED: YES - NO -Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding per — (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172. (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. ADDRESS C.O.D. FEE: PREPAID | COLLECT | COD Amt: \$ Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. TOTAL CHARGES FREIGHT CHARGES Check box if charges are to be collect regulations. FREIGHT PREPAID except when box at right is checked Signature the Contract Terms and Conditions for a list of such articles. (Signature of Consignor) RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

HECLEVED, subject to the classifications and tamis in effect on the date of the issue of this Bill of Lauring, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is multi-appear as to each carrier of all or any of, said property over all or any portion of said doute to destination.

lination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

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Permanent post-offic	ce address	of shipper.	STYLE CF375-4 ©	2012 LABELIMASTER® (	800) 621-5808 www.l	abelmaster.co	om

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is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper No.	N/A
Carrier No.	N/A

Page	1 of 1	D-10 - SW	(Name of carrier)	ruction (scac)	Date <u>8-29-11/</u>	
On Collect on Del	ivery shipments, the letters "COD" must app	pear before consignee's name or as otherwise provided in	r Item 430, Sec.1. FROI Ship		artners-RJU South	
Consignee	R360 HalfWay Fa	cility	Stree	et 4 miles SW of I	Loco Hills, NM	
Street	Mile Marker 66,	Carlsbad HWY	City	Eddy County	State NM Zip Code	
City	Hobbs State	NM Zip Code	3		74201552 1501	

24 hr. Emergency Contact Tel. No. (432) 553-1681

Route		3,			Vehicl Numb	e er	
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(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of them 302. Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental

Signature

**ADDRESS** 

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consigner without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

tination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

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TO:		s "COD" must appear before consignee's name fWay Facility	or as otherwise provided in Item 430, Sec.1.	FROM: Holly	Energy Partn	ers-RJU So	uth	
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	AHET			City Eddy	County	State NM	Zip Code	
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### is an acknowledgment that a Bill of Lading has been issued and is not Original Shipper No. N/A This Memorandum Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record. Carrier No. N/A ) Sweet lonshoom Page \_\_\_\_1 of \_\_1 (SCAC) On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1. FROM: Holly Energy Partners-RJU South Shipper TO: R360 Halfway Facility Consignee Street 4 miles SW of Loco Hills, NM Mile Marker 66, Carlsbad HWY Street Zip Code City State MM Eddy County Hobbs MM City State Zip Code (432)553 - 168124 hr. Emergency Contact Tel. No. '\_\_\_ Vehicle Route Number **TOTAL QUANTITY** BASIC DESCRIPTION WEIGHT CHARGES HM No. of Units (Weight, Volume, Gallons, etc.) (Subject to Correction) RATE (For Carrier UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group & Container Type Use Only) Y NON DOT-Regulated Material (soil), RCRA Non-exempt DT PLACARDS TENDERED: YES - NO -C.O.D. TO: Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeded. I hereby declare that the contents of this **ADDRESS** Thereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. C.O.D. FEE: PREPAID | COLLECT | agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding per (2) Where the applicable farilf provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172. (3) Commodifies requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading. Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles. COD Amt: \$ Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consigner, the consigner shall sign the following statement: The carrier shall not make delivery of this shipment without payment of felight and all other lawful charges. TOTAL CHARGES FREIGHT CHARGES FREIGHT PREPAID except when box at right is checked Check box if charges are to be collect Signature (Signature of Consignor) tination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accorded for bitmed and his expense.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if is route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to des-

accepted for himself and his assigns.

SHIPPER Com Genery on behalfet Holly Com	CARRIER JESUS 1101DEZ
PER 4. 4 2-16-19	PER Juny Valle 3
	DATE 9-16-14

#### is an acknowledgment that a Bill of Lading has been issued and is not Original This Memorandum Shipper No. N/A Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record. Carrier No. N/A / Swon for worksolow Page \_\_\_\_1\_ of \_\_1 (SCAC) On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1. FROM: Holly Energy Partners-RJU South Shipper TO: R360 HalfWay Facility Consignee 4 miles SW of Loco Hills, NM Street Mile Marker 66, Carlsbad HWY Street City State MM Zip Code Eddy County MM Hobbs City State Zip Code (432)553 - 168124 hr. Emergency Contact Tel. No. \_ Vehicle Route Number BASIC DESCRIPTION **TOTAL QUANTITY** WEIGHT CHARGES HM No. of Units (Weight, Volume, (Subject to RATE (For Carrier UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group & Container Type Correction) Use Only) Gallons, etc.) NON DOT-Regulated Material (soil), RCRA Non-exempt Y DT PLACARDS TENDERED: YES NO REMIT COD TO Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding per (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172. (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable intervalinate and natives to expression. ADDRESS C.O.D. FEE: PREPAID | COLLECT | COD Amt: \$ Subject to Section 7 of the conditions, if this shipment is to be delivered to the consigner without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of treight and all other lawful charges. TOTAL CHARGES transport according to applicable international and national governmental regulations. FREIGHT CHARGES FREIGHT PREPAID except when box at right is checked Check box if char the Contract Terms and Conditions for a list of such articles. Signature (Signature of Consignor) tination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, HELE/IVED, studject to the cassimizations and taints in effect on the date of the issue of this bill or activity, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier beling understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, it is returned to the contract of the property under the contract) agrees to carry to its usual place of delivery at said destination, it is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to desaccepted for himself and his assigns. S

HIPPER Lengtonney on behalf of Holly Energy	CARRIER ALDO CERSONO
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This Memorandum is an acknowledgment that a Bill of Lading has been Bill of Lading, nor a copy or duplicate, covering the prointended solely for filling or record,									Shipper No. N/A  Carrier No. N/A						
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Street		007 0011		*		City	Eddy (	County	State NM	Zip Code	
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specifically in writing the agreed or declared value	agreed or de	fent on value, shippers are clared value of the property is hereby specifically state	, as follows: "The	I hereby declare that the consignment are fully described above by the	and accurately	ADDRESS			10	CO.D. FEE:	-
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the ten (th pos nat	property descri its of packages e word carrier to seession of the policy ion, if on its rou	ect to the classifications and tal bed above in apparent good unknown), marked, consigne- eing understood throughout I roperty under the contract) ag te, otherwise to deliver to anc ach carrier of all or any of, sa	order, except as note d, and destined as in this contract as meal rees to carry to its us other carrier on the ro	ed (contents and condition indicated above which said ning any person or corpor sual place of delivery at sa oute to said destination. It	of con- d carrier ration in id desti- is mutu-	performed sification of Shipp governing	d as to each phereunder sha on the date of oer hereby control	party at any time interested in all Il be subject to all the bill of ladir	ng terms and cond all the lading term	itions in the governing	the
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Street Mil	e Mark	er 66, Carlsbad HW	Υ	City Eddy	County	State NM .	Zip Code	
City Hobb	15	State NM	Zip Code	24 hr. Emergency Co	ontact Tel. No(4	32)553-168;	1	
Route						Vehicle Numbe		
No. of Units & Container Type	HM	W.75	ASIC DESCRIPTION Shipping Name, Hazard Class	s, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
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the p tents (the posse natio	roperty describ of packages is word carrier be ession of the per n, it/on its rout	ct to the classifications and tariffs in effect on the dat ed above in apparent good order, except as note unknown), marked, consigned, and destined as ir eing understood throughout this contract as ar- roperty under the contract) agrees to carry to its us a, otherwise to deliver to another carrier on the ro ctch carrier of all or any of, said property over all or	te of the issue of this Bill of Lading, ed (contents and condition of con- idicated above which said carrier ining any person or corporation in sual place of delivory at said desti- ute to said destination. It is multi-	tination and as to eac performed hereunder s sification on the date Shipper hereby	th party at any time interested in all shall be subject to all the bill of ladir of shipment. certifies that he is familiar with a ion and the said terms and conditio	or any said property, that e ig terms and conditions in t all the lading terms and	very service to he governing cla conditions in the	be as-
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#### is an acknowledgment that a Bill of Lading has been issued and is not Original This Memorandum Shipper No. N/A Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record. Carrier No. N/A Rage (SCAC) On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1. FROM: Holly Energy Partners-RJU South Shipper TO: R360 HalfWay Facility Consignee 4 miles SW of Loco Hills, NM Street Mile Marker 66, Carlsbad HWY Street City State NM Zip Code Eddy County Hobbs NM State Zip Code City (432)553-168124 hr. Emergency Contact Tel. No. \_\_\_ Vehicle Route Number TOTAL QUANTITY WEIGHT CHARGES BASIC DESCRIPTION HM No. of Units RATE (Weight, Volume, (Subject to (For Carrier UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group & Container Type Gallons, etc.) Correction) Use Only) 20 NON DOT-Regulated Material (soil), RCRA Non-exempt DT PLACARDS TENDERED: YES - NO -REMIT C.O.D. TO: Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding per I hereby declare that the contents of this ADDRESS I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. C.O.D. FEE: PREPAID || COLLECT || agreed or declared value of the property is hereby specifically stated by the shipper to per [2] Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and [3] of the extent provided by such provisions. See NMFC Item 1722. [3] Commodifies requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles. COD Amt: \$ Subject to Section 7 of the conditions, if this shipment is to be delivered to the consigner without recourse on the consignor, the consignor shall sign the following slatement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. TOTAL CHARGES \$ FREIGHT CHARGES HARGES Check box if charges are to be collect FREIGHT C FREIGHT PREPAID except when box at right is checked (Signature of Consignor) RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, it is route, otherwise to deliver to another carrier on the route to said destination, it is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to deslination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns. CARRIER SHIPPER PER PER

DATE

#### is an acknowledgment that a Bill of Lading has been issued and is not Original This Memorandum Shipper No. N/A Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record. Carrier No. N/A 1\_ of \_1 Page \_ (SCAC) On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1. FROM: Holly Energy Partners-RJU South Shipper TO: R360 HalfWay Facility Consignee 4 miles SW of Loco Hills, NM Street Mile Marker 66, Carlsbad HWY Street City State NM Zip Code Eddy County NM Hobbs City State Zip Code (432)553-1681 24 hr. Emergency Contact Tel. No. \_ Vehicle Route Number BASIC DESCRIPTION **TOTAL QUANTITY** WEIGHT CHARGES HM No. of Units RATE (Weight, Volume, (Subject to (For Carrier UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group & Container Type Correction) Gallons, etc.) Use Only) ¥ NON DOT-Regulated Material (soil), RCRA Non-exempt DT PLACARDS TENDERED: YES - NO -Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: The agreed or declared value of the property is hereby specifically slated by the shipper to be not exceeding — per — (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172. (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles. C.O.D. TO: I hereby declare that the contents of this **ADDRESS** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping marked and labelled/placarded, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental C.O.D. FEE: PREPAID | COLLECT | CODAmt: \$ Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. TOTAL regulations FREIGHT CHARGES FREIGHT PREPAID except when box at right is checked Signature (Signature of Consignor) RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination, it is mutually appeared to the pack agree at all its and a leaft property user all of any portion of said trule to destinations. tination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing clas-sification on the date of shipment. Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns. ally agreed as to each carrier of all or any of, said property over all or any portion of said route to des SHIPPER CARRIER PER PER DATE

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DATE

FRANTED ON RECYCLED PAPER FOR SOUTH

# **Appendix F**

**Bureau of Land Management (BLM) Contract** 



# United States Department of the Interior Bureau of Land Management

Receipt

CARLSBAD FIELD OFFICE 620 E. GREENE CARLSBAD, NM 88220 -6292 Phone: (575) 234-5972

No:

3185137

Transaction #: 3278230
Date of Transaction: 12/08/2014

CUSTOMER:

CONESTOGA-ROVERS & ASSOCIATES
2135 S LOOP 250 W
MIDLAND,TX 79703-7404 US

LINE #	QTY	DESCRIPTION	REMARKS	UNIT PRICE	TOTAL
1	900.00	MINERAL MATERIALS / PD MINERAL MATERIAL COMPETITIVE/NONCOMP. SALE / PAYMENT CASES: NMNM 133563/\$720.00 PROJECT: LUGD35015240		- n/a -	720.00
2	1.00	MINERAL MATERIALS / PD MINERAL MATERIAL COMPETITIVE/NONCOMP. SALE / PROCESSING FEE CASES: NMNM 133563/\$46.00 PROJECT: LVEMG15CG410	3	- n/a -	46.00
			ТОТА	L:	\$766.00

		PAYMENT INFORMATION	V	
NOTE: I	tems will appear on	credit card statement as "Bureau of I	Land Mgmt CO".	
1	AMOUNT:	766.00	POSTMARKED:	N/A
	TYPE:	CREDIT CARD	RECEIVED:	12/08/2014
		CONESTOGA-ROVERS & ASSO 2135 S LOOP 250 W MIDLAND TX 79703-7404 US	CIATES	
		XXXXXXXXXXXX8647	AUTH CODE:	03093C
	NAME ON CARD:	NATHAN KNOWLES		
:	EXPIRES:	02/2017		
	SIGNATURE:			

REMARKS		
REMARKS		

Form 3600-9 (February 2012)

### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

#### CONTRACT FOR THE SALE OF MINERAL MATERIALS

FORM APPROVED	
OMB NO. 1004-0103	
Office: BLM CFO 0200	
Contract Serial Number:	
NMNM 133563	

The UNITED STATES OF AMERICA acting through the Bureau of Land Management (BLM), and you, the purchaser, Conestoga-Rovers & Associates (CRA) make this AGREEMENT, under the authority of the Act of July 31, 1947 (61 Stat. 681), as amended at 30 U.S.C. 601 through 604, and the regulations at 43 CFR Group 3600.

Weagres: Berm Pit Entrance 4 feet upon Completion

#### Sec 1. Contract area

Under the terms and conditions of this contract, the United States sells to you and you buy the mineral materials listed in Section 2 and contained in the following lands as shown on the map and mining plan attached to this contract:

Country	Sinite	Township	Ronge	Stantion	Aliquot Parts	Meridian	Acreage
Eddy	NIVI	T185	RBOE	04	SWNW	NMPM	

Pit Name (if any):

#### Sec. 2. Amount and price of materials

The United States determines the total purchase price by multiplying the total quantity of mineral material designated by the unit price given below, or as changed through reappraisal.

Description of Service	e or litem	Quantity	Price Per Unit	Subtotal
Mineral Type: Borrow	⊕ LCY ○ Tons	900	\$0.80	\$720.00
Recovery Fee			T VI	\$46.00
Fax Fee		0	\$0.00	\$0.00
Reclamation			\$1.00	\$0.00
PIt Sloping	DECEMBER OF THE PROPERTY OF TH			
		Marie Choles	Total Price:	\$766.00

BLM's determination of the amount of materials that you have taken under the contract is binding on you. You may appeal this determination as provided in Section 19. You are liable for the total purchase price, even if the quantity of materials you ultimately extract is less than the amount shown above. You may not mine more than the quantity of materials shown in the contract.

If you pay in full in advance, BLM will check this box, and Subsections 3(a) through 3(c) do not apply to your contract. You must pay in full for all sales of \$2,000 or less.

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You may not extract the materials until you have paid in advance for them in full \$766.00 , or paid the first installment of \$0.00

(a) If you pay in installments, you must pay the first installment before BLM approves the contract.

(b) Once you start removing material, you must pay each subsequent installment payment monthly in an amount equal to the value of materials removed in the previous month. Payment must be made by the 15th day following the end of the month for which you are reporting. You must pay the total purchase price not later than 60 days before the contract expires,

(c) The United States will retain the first installment as security for your full and faithful performance and will apply it to the last installment required to make the total payment equal to the total price given in Section 2.

If you are late making an installment payment, you must not remove any more material until you have paid. Removing material you have not paid for is trespass, and for trespass you must pay at triple the appraised unit price, or at triple the reappraised unit price if BLM has made a reappraisal. To resume removal operations after you were late making payments, you must obtain BLM's written approval.

(d) You must annually produce an amount sufficient to pay to the United States a sum of money equal to the first installment identified in this section. In lieu of such production, you may make an annual payment in the amount of the first installment. If in any contract year you make production payments that are less than the first installment, you must pay the difference between the production payments and the amount of the first installment. These annual payments are due on or before each anniversary date of the contract.

(a) You receive title to the mineral materials only after you have paid for them and extracted them.

#### Sec. 4. Bonds

(a) You must furnish BLM with a performance bond in the amount of \$0.00 as a condition of issuing this contract.

(b) If you do not perform all terms of the contract, BLM will deduct an amount equal to the damages from the face amount of the bond. If the damages exceed the amount of the bond, you are liable for the excess. BLM will cancel the bond or return the cash or U.S. bonds you supplied when you have completed performance under this contract.

(c) BLM will require a new bond when it finds any bond you furnish under this contract to be unsatisfactory.

#### Sec. 5. Risk of loss

(a) You assume complete risk of loss for all materials to which you have title. If material covered by this contract is damaged or destroyed before title passes, you are liable for all loss suffered if you or your agents are directly or indirectly responsible for the damages. If you are not responsible for the damage or destruction, you are liable only to the extent that the loss was caused by your failure to remove the material under the terms of this contract. You are still liable for breach of contract or any wrongful or negligent act.

#### Sec. 6. Liability for damage to materials not sold to you

(a) You are liable for loss or damage to materials not sold to you if you or your agents are directly or indirectly responsible for the damage or loss. You are also liable if you fall to perform under the contract according to BLM's instructions and the United States incurs costs resulting from your breach of any contract term or your fallure to use proper conservation practices. If the damage resulted from willful or gross negligence, you are liable for triple the appraised value of the damaged or destroyed materials. If the damage or destruction did not result from willful or gross negligence, you are liable for lesser charges, but not less than the appraised value of the materials.

#### Sec. 7. Stipulations and reserved terms

(a) Your rights are subject to the regulations at 43 CFR Group 3600 now or hereafter in force and to any stipulations and the mining plan attached to this contract.

[V] BLM will check this box if there are stipulations attached to this contract.

#### Sec. 8. Notice of operations

(a) You must notify BLM immediately when you begin and end operations under this contract. If BLM has specified a time frame for notification, you must comply with that time frame.

#### Sec. 9. Assignments

(a) You may not assign this contract without BLM's written approval.

#### Sec. 10. Modification of the Approved Mining or Reclamation Plan

(a) You or BLM may initiate modification of these plans to adjust for changed conditions, or to correct any oversight. The conditions for BLM requiring you to modify these plans, or approving your request for modification are found in the regulations at 43 CFR 3601.44.

#### Sec. 11. Expiration of contract Expiration Date: 12/12/2014

(a) This contract will expire months, 14 years, days from its approval date, unless BLM extends the term or renews the contract.

#### Sec. 12. Extensions of time

(a) BLM may grant you an extension of time in which to comply with contract provisions under the regulations at 43 CFR 3602.27. For contracts with terms over 90 days, you must apply in writing no less than 30 or more than 90 days before your contract expires. For contracts with terms of 90 days or less you must apply no later than 15 days before your contract expires.

#### Sec. 13. Renewal of renewable competitive contract

(a) BLM will renew your renewable competitive contract if you apply in writing no less than 90 days before your contract expires and you meet the conditions in the regulations at 43 CFR 3602.47

#### Sec. 14. Time for removing personal property

(a) You have 3 days (not to exceed 90) from the date this contract expires to remove your equipment, improvements, and other personal property from US lands or rights-of-way. You may leave in place improvements such as roads, culverts, and bridges if BLM consents. Any property remaining after this period ends, including extracted materials, becomes the property of the United States. You will remain liable for any costs of removing and disposing of the property and restoring the site.

#### Sec. 15. Violations and cancellations

(a) If you violate any terms or provisions of this contract, BLM may cancel your contract following the regulations at 43 CFR 3601.60 et seq., and recover all damages suffered by the United States, including applying any advance payments you made under this contract toward the payment of the damages.

(b) If you extract any mineral materials sold under this contract during a suspension period, or after the contract has expired or been canceled, you have committed, and may be charged with, willful trespass.

#### Sec. 16. Responsibility for damages suffered or costs incurred by the United States

(a) If you, your contractors, subcontractors or employees breach this contract or commit any wrongful or negligent act, you are liable for any resulting damages suffered or costs incurred by the United States. You must pay the United States within 30 days after receiving a written demand from BLM.

#### Sec. 17. Equal opportunity clause

(a) The actions you take in hiring must comply with the provisions of Executive Order No. 11246 of Sept. 24,1965, as amended, which describe the nondiscrimination clauses. You may get a copy of this order from BLM.

#### Sec. 18. Effective date

- If this contract becomes effective on the date BLM signs the contract, BLM will check this box.
- If this contract becomes effective only after certain conditions are met, BLM will check this box, list the conditions below, and indicate the effective date.

#### Mineral Destination

Township:	T175	Range:	R29E	Section:	26	Footages:	Job Type:e	environmental
Operator:			totani all'attani		Well Name	: RJU South	Number of Veh	icles:
	The same of the sa	e a servicio de la companio del companio de la companio della comp						

## Job Details -- Standard Pit Stipulations attached

- --Purchaser must have a copy of this contract present in each vehicle handling minerals when working at pit site
- -Berm pit entrance 4' when removal of material is complete
- -No Trackhoos allowed in pit
- -- No pit high walls are to remain in pit or be generated by contractor
- -- 'Dig Safe' clearance required (phone #811)
- -Dust control and road protection required, using water during dry periods

#### Sec. 19. Appeal

(a) You may appeal any decision that BLM makes in regard to this contract under Parts 4 and 1840 of Title 43 of the Code of Federal Regulations.

UNITED STATES OF AMERICA Bureau of Land Management (Print Name of BLM Official)  12.5.2014
(Print Name of BLM Official)
-1 - 00 ( n.m.) 3 - 4 - 6 ( 18 m.) 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
12 60004
16.3 6017
(Signature of BLM Official)
Field Manager
Wansta
(Signature)

If you are a corporation, affix corporate seal here:

Title 18 U.S.C. 1001, makes it a crime for any person knowingly or willfully to make to any department or agency of the United States any false, fictilious or fraudulent statements or representations as to any matter within its jurisdiction, subject to a fine of up to \$10,000 and imprisonment up to 5 years.

#### MOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 601 et seq.; 43 CFR Group 3600

PRINCIPAL PURPOSE: BLM uses this information to identify the parties entering into contracts for disposing of mineral materials.

ROUTINE USES: BLM will transfer information from the record or the record itself to appropriate Federal, State, local, or foreign agencies, when relevant to criminal, civil, or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION: If you do not provide this information to BLM, we will not be able to process your application for a contract.

The Paperwork Reduction Act requires us to inform you that:

The BLM is collecting this information to process your application and effect a binding contract.

The BLM will use this information to identify and communicate with applicants.

You must respond to this request to get a benefit.

You do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average about 1 hour per response, including the time for reviewing instructions gathering and maintaining data, and completing and reviewing the form. You may submit comments regarding the burden estimate or any other aspect of this form to: U.S. Department of the interior, Bureau of Land Management (1004-0103), Bureau information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Room 2134LM, Washington, D.C. 20240.

#### **EXHIBIT A - MINERAL PIT STIPULATIONS**

#### Mining Plan

- 1. The material pit will be mined according to the mining plan.
  - (A) Mining will be restricted within the surveyed Archaeological boundaries which are marked by steel T posts or metal rods.
- 2. The overburden and or topsoil will be stockpiled along the outer rim of the first cell of a new pit. Following the first mined cell all top soil is to be stock piles in the bottom of the previously mined out cell to be used to reclaim the pit. NO overburden or top soil shall leave the pit.
- 3. Damage to the locality will be restricted to the area needed for extraction of the materials. NO excavating without first calling and having New Mexico Dig One field clearance (Call, USA National Cell #811).
- 4. Restrict extraction of mineral material to within the surveyed area and active mineral pit cell being harvested (Example: 120 'wide by 600' long cell) Metal T-post have been placed along four corners of the mineral material pit to distinguish outer boundaries of the entire mineral pit. If T-posts are missing, for your safety, call the BLM office at (575) 234-5972.
- 5. All vehicles shall be confined to roads and the designated boundaries of the working areas. In addition Lesser Prairie chicken timing stipulations maybe required for construction activities in the area of East Eddy Lea County's starting March 1, active until June 15, from 03:00 to 09:00 Hrs.
- 6. On leaving a material site, it will be cleaned and dressed. All rubbish and debris will be removed and the site dressed by dragging, blading, or otherwise smoothing the excavated surface.
- 7. The mineral material site will be maintained so as to diminish injury to people, livestock and wildlife. All open excavations need sloped side wells.
- 8. The open pit slope shall be graded not less than 3 (three) feet horizontal to 1 (one) foot vertical (3 to 1 slope). Test pit are to be back filled.
- 9. Extreme care and caution will be given as to the existence of underground cables and pipelines in the locality to be excavated. Any existing structures will not be disturbed or damaged in any way by an excavation within a material site. No soil stockpile or excavation activity is to be within 30 feet of any underground or aboveground utility structure.
  - (A) New Mexico Coli One is a state law that requires a dig clearance for all earth work. Call USA National Cell Phone Number 811 prior to excavation.
  - (B) Contact pipeline and waterline lease holders in this area prior to digging to determine exact locations of any buried pipe.

    (C) Stake off any pipes that are discovered and post signs. Cell # 811
- 10. The material site access roads will be maintained so as not to cause wear and water crosion. Water bars should be constructed across roads in accordance with Burgau of Land Management (BLM) specifications.
- 11. Natural drainage systems shall not be blocked. Cuts or fills causing silitation or accumulation of debris in stream channels shall be avoided. Precaution will be taken in staging any spoil piles or material stockpiles to insure that silitation of streams, tanks, and ponds does not occur.
- 12. This permit may be canceled by the BLM when it is found that the permittee has violated federal law regulations, any clause of the contract, or any of the attached special stipulation. Funds are forfeited by Holder.

#### **General Conditions of Approval**

- 1. The holder shall indemnify the United State against any liability for damage to life or property arising from the occupancy or use of public lands under this authorization.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, et, seq.) with regard to any toxic substances that are used, generated by or stored on the pipeline route or on facilities authorized. (Seo 40 CFR. Part 702-799 and especially, provisions on polychlorinated hiphonyls, 40 CFR 761.1 761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act, Section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency of State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et, seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et. seq.) on this pipeline (unless the release or threatened release is wholly unrelated to the holder's activity on the pipeline). This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. If, during any phase of the construction, operation, maintenance, or termination of the authorization, any oil or other pollutant should be discharged, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or cleanup such discharge on or affecting Federal lands, or to repair all damages to Federal lands resulting therefrom, the Authorized Officer may take such measures as deemed necessary to control and cleanup the discharge and restore the area, including, where appropriate, the aquatic environment and lish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any liability or responsibility.
- 5. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shalf be immediately reported to the Authorized Officer. The holder shall auspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder shalf be responsible for the cost of evaluation and any decision as to the proper miligation measure will be made by the Authorized Officer after consulting with the holder.
- 6. The holder is herby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be field responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes.

- 7. The holder shall be responsible for weed control on disturbed areas within the limits of the site. The holder is responsible for consultation with the authorized office and/or local authorizes for acceptable weed control methods. The mineral material mining site and construction area will be kept free of the following plant species; Malta starthistie, African rue, Scotch thistie, and safecedar.
- 8. The holder shall be responsible for maintaining the site in a sanitary condition at all times; waste materials at those sites shall be disposed of promptly at an appropriate waste disposal site. "Waste" means all discarded matter including, but not limited to, human waste, trash, garbage, refuse, oil drums, petroleum products, ashes, and equipment.
- 9. The RLM, Carisbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during mineral removal or site construction and no further construction will be done until clearance has been issued by the Authorized Officer. Special restoration stipulations or realignment may be required."

#### **Mineral Material Sites**

- 1. All design, material, and construction, operation, maintenance, and termination practices shall be in accordance with safe and proven engineering practices. Dig One Cali required Cell Phone Number 811
- 2. The holder shall conduct all activities associated with the construction, operation, and termination of the material pit within the authorized limits.
- 3. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair impacted improvements to at least their former state. The holder shall contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates shall be allowed unless approved by the Authorized Officers. Close Gates
- 4. The holder shall be responsible for the actions and operations of any third party users associated with this authorization. All such use shall be subject to the applicable terms, conditions, and stipulations of this authorization. (Example: Dust control required water the roads.)
- 5. The road proposed as part of this authorization shall be constructed and maintained in accordance with the BLM standards prescribed for a roads and the New Mexico Roads Policy. (Example: one lane, 14'W x.5'H, turnout)
- 6. Topsoli material moved in conjunction with clearing and stripping prior to mineral (caliche', gravel, clay) removal, shall be conserved in stockpiles (within the material site). No top soil shall be removed from the mineral pit.
- 7. Excess excavated, unsultable, or slide material shall be disposed of as directed by the authorized officer.
- 8. No construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support construction equipment. If such equipment creates ruts in excess of two inches deep, the soil shall be deemed too wet to adequately support construction equipment.
- 9. Existing permitted roads and trails on public lands that are blocked as the result of the material pit activities shall be rerouted or rebuilt as directed by the authorized officer. No soil is to be stock piled on underground utilities. Holder is responsible for removing stock pile off underground utility.
- 10. The holder shall recontour the disturbed area and obliterate all earth work by removing embankments, backfilling excavations, and grading to reestablish the approximate original contour of the land as determined by the authorized officer. BLM land shall not storage vehicles or equipment.
- 11. The BLM will monitor construction on this material pit site. Notify the appropriate Resource Area Office, BLM at least (one) working days prior to commencing excavation at (575) 234-5972. The holder shall have a copy of the authorized mineral material permit including C.O.A's and stipulations at the material pit site prior to and during excavation and removal of mineral material from a federal material pit. Surface disturbance, excavation and removal of mineral material cannot commence until the mineral material permit is physically at the material site. The holder with have the authorized mineral material permit available for inspection by the authorized officer at the material site location. Operations by the holder within a federal material site will cease upon discovery by the Authorized Officer that the authorized mineral material permit is not available for inspection or is not valid due to permit volume or date expiration.

#### HYDROGEN SULFIDE (H2S) PRODUCTIVE AREA STIPULATINS:

- 1. Hydrogen Sulfide Training All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing excavation or removal of mineral from the material site:
  - (A) The hazards and characteristics of hydrogen sulfide (H25).
  - (B) The proper use and maintenance of personal protective equipment and life support systems.
  - (C) The proper use of H2S detectors, alarms, warning systems, briefing areas, evacuations procedures, and prevailing winds.
  - (O) The proper techniques for first aid and rescue procedures.
- 2. EMERGENCY EQUIPMENT REQUIREMENTS
  - (A) SIGNS-One sign located at the mineral material pit entrance with the following language:

CAUTION - OOTENTIAL POISON GAS

HYDROGEN SULFIDE (H2S)

NO ADMITTANCE WITHOUT AUTHORIZATION

- (B) WINDSOCK WINDSTREAMERS One windsock or streamer which is 36" (in length) located at the pit entrance and at a height visible from the pit area.
- (C) HYDDROGEN SULFIDE DETECTOR AND ALARMS A. H2s detectors or monitors with alarm will be used by all personal located within the mineral material site. BLM personal evacuate at 10ppb H2S, and notify BLM office.

(D) CONDITION FLAGS A. One each of green, yellow, and red condition flags to be displayed to denote conditions.

GREEN — NORMAL CONDITIONS YELLOW — POTENTIAL DANGER RED — DANGER, H25 PRESENT

3. MINERAL MATERIAL EXCAVATION AND REMOVAL WILL CEASE AND THE AREA WILL BE EVACUATED WHEN H2S CONDITIONS ARE IDENTIFIED.

# Pipeline Safety Act of 2006 and U.S. Code: Title 49

### Release date March 17, 2005

## Sec. 60123. Criminal penalties

#### (A) General Penalty

A person knowingly and willfully violating section 60114(c), 60118(a), or 60128 of this Title or a regulation prescribed or order issued under this chapter shall be fined under Title 18, imprisoned for not more than 5 years, or both.

## (B) Penalty for Damaging or Destroying Facilit

A person knowingly and willfully damaging or destroying an interstate gas pipeline facility or interstate hazardous liquid pipeline facility, or attempting or conspiring to do such an act, shall be fined under Title 18, imprisoned for not more than 20 years, or both, and, if death results to any person, shall be imprisoned for any term of years or for life.

## (C) Penalty for Damaging or Destroying Sig

A person knowingly and willfully defacing, damaging, removing, or destroying a pipeline sign or right-of-way marker required by a law or regulation of the United States shall be fined under Title 18, imprisoned for not more than 1 year, or both.

# (D) Penalty for Not Using One-Call Cell #811 Notification System or Not Heeding Location Information or OSHA required utility Marking A person shall be fined under Title 18, imprisoned for not more than 5 years, or both, if the person knowingly and willfully—

- (1) engages in an excavation activity -
  - (A) Without first using an available one-call notification system to establish the location of undergrou facilities in the excavation area; or
  - (B) without paying attention to appropriate location information or markings the operator of a pipeline facili establishes; and
- (2) subsequently damages --
  - (A) a pipeline facility that results in death, serious bodily harm, or actual damage to property of more thn \$50,000;
  - (B) a pipeline facility that does not report the damage promptly to the operator of the pipeline facility and t other appropriate authorities; or
  - (C) a hazardous liquid pipeline facility that results in the release of more than 50 barrels of product.

