

3R-1023

**Release Report/ General
Correspondence**

Western San Juan

Date: Jan-Mar 2015

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

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

JAN 09 2015

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Western Refining Pipeline, LLC	Contact: Kelly Robinson
Address: 111 County Road 4990, Bloomfield, NM 87413	Telephone No.: 505-632-4166
Facility Name: Bisti Station	Facility Type: Crude Station
Surface Owner: BIA Trust Land	Mineral Owner
API No.	

LOCATION OF RELEASE

Unit Letter NESE	Section 17	Township 26N	Range 12W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
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Latitude 36.487768 Longitude -108.129948

NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: 62 barrels	Volume Recovered: 58 barrels
Source of Release: Failed Booster Pump Seal	Date and Hour of Occurrence: 11/25/2014 prior to 9:30am	Date and Hour of Discovery 11/25/2014 at 9:30am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? National Response Center at 10:15am (11/25/2014) NMOCD – Brandon Powell at 3:10pm (11/25/2014)	
By Whom? Kelly Robinson	Date and Hour: See Above for times and date	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.* No watercourse impacted.		
Describe Cause of Problem and Remedial Action Taken.* Seal failure at Booster Pump #2 resulted in the release of approximately 62 barrels of crude oil. The oil that reached the ground surface was contained within a clay lined/concrete bermed containment that surrounded the pump skid area. The Pipeline Operator identified the oil release and immediately shutdown the Station. The concrete berm contained the soil within a 40' by 20' area, eliminating the concern of overland spread and enhancing the soil recovery efforts. The 58 barrels of recovered oil was returned to the pipeline system via an on-site vacuum truck. The 4 barrels unrecovered by the vacuum truck are being removed through soil excavation.		

#NCS 15042 314 27

414

Describe Area Affected and Cleanup Action Taken.*

The impacted area was contained to within the concrete berm area (approximately 40' by 20' area). Western Personnel and Western contractors were on-site within the hour of discovery to initiate clean-up efforts. Recovered oil was returned to the Pipeline System. The impacted soil is being removed and temporarily stockpiled on-site. The excavated soil is being placed on a containment liner, and will be shipped off-site for disposal.

(Up-Date January 5, 2015)

Over the past several weeks, Western has been working to excavate the impacted soils in order to restore the containment area to levels below site-specific clean-up standards. Progress in the excavation using shovels has been slow due to the cold frozen ground conditions. The impacted soil area was equivalent to approximately 600 square feet. Following discussions with BLM and NMOCD, the Site was given a ranking of 10 in accordance with the NMOCD "Guidelines for Remediation of Leaks, Spills, and Releases" dated August 13, 1993. The Site ranking identified the site-specific clean-up standards to be as follows:

- Benzene = 10 mg/kg
- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) = 50 mg/kg
- TPH = 1,000 mg/kg


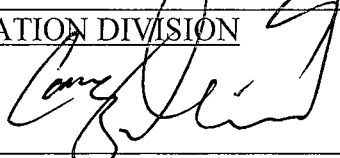
On December 1, 2014, Western collected the first set of confirmation samples following the initial excavation effort. The results indicated that the remaining soils were below the BTEX screening levels; however the TPH concentrations were detected above the site-specific level of 1,000 ppm in two general areas.

Between December 1, 2014 and December 31, 2014, additional excavation and confirmation samples were collected. The results were compared to the site specific clean-up standards. A final composite sample collected on December 31, 2014 indicates that the spill area has been cleaned-up to standards in compliance with the respective NMOCD corrective action guidance. A preliminary summary of these results were provided to NMOCD on January 5, 2015.

A summary of the confirmation sample results and the respective analytical reports are provided as an attachment to this report. In addition, copies of the agency correspondence with respect to this event are also attached.

Based on the findings and actions completed as described above, Western is requesting approval of a "Corrective Action Complete" designation for this event. To prevent future impacts to this area, Western will be backfilling with compacting soils starting Tuesday, January 6th, 2015. In addition, Western will construct a cap using concrete and/or HDPE liner equivalent that will prevent future below grade impacts within the vicinity of the booster pump area.

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

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Kelly Robinson		Approved by Environmental Specialist: 	
Title: Environmental Supervisor		Approval Date: 2/6/15	Expiration Date:
E-mail Address: Kelly.robinson@wnr.com		Conditions of Approval:	
Date: 1/5/2015 Phone: (505) 632-4166		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

NCS 1504231427

44

ATTACHMENTS

Bisti Station Corrective Action Confirmation Sample Summary

Sample ID	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	BTEX (mg/kg)
Clean-Up Standard ->	10	---	---	---	50
South	<0.10	0.2	0.32	2.23	2.75
East	<0.40	0.93	2.00	14.1	17.0
North	0.48	0.84	2.61	10.7	14.63
West	<0.20	2.15	2.45	14.9	19.5

Sample ID	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH Total (mg/kg)	Clean-Up Standard (mg/kg)
South	52.4	965	1,017	1,000
East	231	3,440	3,671	1,000
North	309	9,620	9,929	1,000
West	215	3,510	3,725	1,000

Note: Sample results are for samples collected on 12/1/2014

Sample ID	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH Total (mg/kg)	Clean-Up Standard (mg/kg)
South	24.8	98	122.8	1000
East	155	438	593	1000
North	158	2190	2348	1000
West	37.7	268	305.7	1000

Note: Sample results are for samples collected on 12/16/2014.

Sample ID	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH Total (mg/kg)	Clean-Up Standard (mg/kg)
North	314	838	1152	1000

Note: Sample results are for samples collected on 12/18/2014.

Sample ID	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH Total (mg/kg)	Clean-Up Standard (mg/kg)
North	27	280	307	1000

Note: Sample results are for samples collected on 12/31/2014.



Analytical Report

Report Summary

Client: Western Refining Southwest, Inc.

Chain Of Custody Number: 17552

Samples Received: 12/1/2014 2:10:00PM

Job Number: 96012-0115

Work Order: P412001

Project Name/Location: Bisti Spill

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 12/3/14

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



Western Refining Southwest, Inc.
PO Box 159
Bloomfield NM, 87413

Project Name: Bisti Spill
Project Number: 96012-0115
Project Manager: Bob Krakow

Reported:
03-Dec-14 10:21

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Bisti North	P412001-01A	Soil	12/01/14	12/01/14	Glass Jar, 8 oz.
Bisti South	P412001-02A	Soil	12/01/14	12/01/14	Glass Jar, 8 oz.
Bisti East	P412001-03A	Soil	12/01/14	12/01/14	Glass Jar, 8 oz.
Bisti West	P412001-04A	Soil	12/01/14	12/01/14	Glass Jar, 8 oz.

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5796 US Highway 64, Farmington, NM 87401

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laboratory@envirotech-inc.com



Western Refining Southwest, Inc.
PO Box 159
Bloomfield NM, 87413

Project Name: Bisti Spill
Project Number: 96012-0115
Project Manager: Bob Krakow

Reported:
03-Dec-14 10:21

Bisti North
P412001-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	0.48	0.40	mg/kg	4		1449006	12/01/14	12/02/14	EPA 8021B	
Toluene	0.84	0.40	mg/kg	4		1449006	12/01/14	12/02/14	EPA 8021B	
Ethylbenzene	2.61	0.40	mg/kg	4		1449006	12/01/14	12/02/14	EPA 8021B	
p,m-Xylene	6.53	0.80	mg/kg	4		1449006	12/01/14	12/02/14	EPA 8021B	
o-Xylene	4.20	0.40	mg/kg	4		1449006	12/01/14	12/02/14	EPA 8021B	
Total Xylenes	10.7	0.40	mg/kg	4		1449006	12/01/14	12/02/14	EPA 8021B	
Total BTEX	14.7	0.40	mg/kg	4		1449006	12/01/14	12/02/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		107 %		50-150		1449006	12/01/14	12/02/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	309	39.9	mg/kg	4		1449006	12/01/14	12/02/14	EPA 8015D	
Diesel Range Organics (C10-C28)	9620	3000	mg/kg	100		1449005	12/01/14	12/02/14	EPA 8015D	
Surrogate: o-Terphenyl		105 %		50-200		1449005	12/01/14	12/02/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		101 %		50-150		1449006	12/01/14	12/02/14	EPA 8015D	

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Western Refining Southwest, Inc.
PO Box 159
Bloomfield NM, 87413

Project Name: Bisti Spill
Project Number: 96012-0115
Project Manager: Bob Krakow

Reported:
03-Dec-14 10:21

Bisti South
P412001-02 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1449006	12/01/14	12/02/14	EPA 8021B	
Toluene	0.20	0.10	mg/kg	1	1449006	12/01/14	12/02/14	EPA 8021B	
Ethylbenzene	0.32	0.10	mg/kg	1	1449006	12/01/14	12/02/14	EPA 8021B	
p,m-Xylene	1.68	0.20	mg/kg	1	1449006	12/01/14	12/02/14	EPA 8021B	
o-Xylene	0.56	0.10	mg/kg	1	1449006	12/01/14	12/02/14	EPA 8021B	
Total Xylenes	2.23	0.10	mg/kg	1	1449006	12/01/14	12/02/14	EPA 8021B	
Total BTEX	2.75	0.10	mg/kg	1	1449006	12/01/14	12/02/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %		50-150	1449006	12/01/14	12/02/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	52.4	9.99	mg/kg	1	1449006	12/01/14	12/02/14	EPA 8015D	
Diesel Range Organics (C10-C28)	965	29.9	mg/kg	1	1449005	12/01/14	12/02/14	EPA 8015D	
Surrogate: o-Terphenyl		136 %		50-200	1449005	12/01/14	12/02/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		102 %		50-150	1449006	12/01/14	12/02/14	EPA 8015D	

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Bisti Spill Project Number: 96012-0115 Project Manager: Bob Krakow	Reported: 03-Dec-14 10:21
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Bisti East
P412001-03 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.40	mg/kg	4	1449006	12/01/14	12/02/14	EPA 8021B	
Toluene	0.93	0.40	mg/kg	4	1449006	12/01/14	12/02/14	EPA 8021B	
Ethylbenzene	2.00	0.40	mg/kg	4	1449006	12/01/14	12/02/14	EPA 8021B	
p,m-Xylene	10.3	0.80	mg/kg	4	1449006	12/01/14	12/02/14	EPA 8021B	
o-Xylene	3.81	0.40	mg/kg	4	1449006	12/01/14	12/02/14	EPA 8021B	
Total Xylenes	14.1	0.40	mg/kg	4	1449006	12/01/14	12/02/14	EPA 8021B	
Total BTEX	17.1	0.40	mg/kg	4	1449006	12/01/14	12/02/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		109 %	50-150		1449006	12/01/14	12/02/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	231	39.9	mg/kg	4	1449006	12/01/14	12/02/14	EPA 8015D	
Diesel Range Organics (C10-C28)	3440	29.9	mg/kg	1	1449005	12/01/14	12/02/14	EPA 8015D	
Surrogate: o-Terphenyl		98.9 %	50-200		1449005	12/01/14	12/02/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		104 %	50-150		1449006	12/01/14	12/02/14	EPA 8015D	

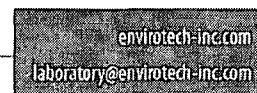
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Western Refining Southwest, Inc.
PO Box 159
Bloomfield NM, 87413

Project Name: Bisti Spill
Project Number: 96012-0115
Project Manager: Bob Krakow

Reported:
03-Dec-14 10:21

Bisti West
P412001-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.20	mg/kg	2	1449006	12/01/14	12/02/14	EPA 8021B	
Toluene	2.15	0.20	mg/kg	2	1449006	12/01/14	12/02/14	EPA 8021B	
Ethylbenzene	2.45	0.20	mg/kg	2	1449006	12/01/14	12/02/14	EPA 8021B	
p,m-Xylene	11.0	0.40	mg/kg	2	1449006	12/01/14	12/02/14	EPA 8021B	
o-Xylene	3.95	0.20	mg/kg	2	1449006	12/01/14	12/02/14	EPA 8021B	
Total Xylenes	14.9	0.20	mg/kg	2	1449006	12/01/14	12/02/14	EPA 8021B	
Total BTEX	19.5	0.20	mg/kg	2	1449006	12/01/14	12/02/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene- <i>P</i> HD		110 %		50-150	1449006	12/01/14	12/02/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	215	20.0	mg/kg	2	1449006	12/01/14	12/02/14	EPA 8015D	
Diesel Range Organics (C10-C28)	3510	29.9	mg/kg	1	1449005	12/01/14	12/02/14	EPA 8015D	E
Surrogate: o-Terphenyl		98.1 %		50-200	1449005	12/01/14	12/02/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene- <i>P</i> HD		107 %		50-150	1449006	12/01/14	12/02/14	EPA 8015D	

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Project Name: Bisti Spill
Project Number: 96012-0115
Project Manager: Bob Krakow

Reported:
03-Dec-14 10:21

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1449006 - Purge and Trap EPA 5030A										
Blank (1449006-BLK1)				Prepared: 01-Dec-14 Analyzed: 02-Dec-14						
Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	0.418		"	0.399		105	50-150			
LCS (1449006-BS1)				Prepared: 01-Dec-14 Analyzed: 02-Dec-14						
Benzene	18.7	0.10	mg/kg	20.0		93.7	75-125			
Toluene	19.0	0.10	"	20.0		95.3	70-125			
Ethylbenzene	19.1	0.10	"	20.0		95.7	75-125			
p,m-Xylene	38.9	0.20	"	40.0		97.2	80-125			
o-Xylene	19.1	0.10	"	20.0		95.6	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.407		"	0.400		102	50-150			
Matrix Spike (1449006-MS1)				Source: P411085-01		Prepared: 01-Dec-14 Analyzed: 02-Dec-14				
Benzene	19.5	0.10	mg/kg	20.0	ND	97.6	75-125			
Toluene	19.9	0.10	"	20.0	ND	99.4	70-125			
Ethylbenzene	20.0	0.10	"	20.0	0.10	99.5	75-125			
p,m-Xylene	40.5	0.20	"	39.9	0.21	101	80-125			
o-Xylene	19.9	0.10	"	20.0	0.17	99.0	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.405		"	0.399		101	50-150			
Matrix Spike Dup (1449006-MSD1)				Source: P411085-01		Prepared: 01-Dec-14 Analyzed: 02-Dec-14				
Benzene	19.2	0.10	mg/kg	19.9	ND	96.4	75-125	1.44	15	
Toluene	19.6	0.10	"	19.9	ND	98.5	70-125	1.14	15	
Ethylbenzene	19.7	0.10	"	19.9	0.10	98.5	75-125	1.21	15	
p,m-Xylene	40.0	0.20	"	39.9	0.21	99.7	80-125	1.21	15	
o-Xylene	19.8	0.10	"	19.9	0.17	98.6	75-125	0.564	15	
Surrogate: 4-Bromochlorobenzene-PID	0.407		"	0.399		102	50-150			

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PO Box 159
Bloomfield NM, 87413

Project Name: Bisti Spill
Project Number: 96012-0115
Project Manager: Bob Krakow

Reported:
03-Dec-14 10:21

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1449005 - DRO Extraction EPA 3550M										
Blank (1449005-BLK1)				Prepared: 01-Dec-14 Analyzed: 02-Dec-14						
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
Surrogate: o-Terphenyl	40.9		"	39.9		103	50-200			
LCS (1449005-BS1)				Prepared: 01-Dec-14 Analyzed: 02-Dec-14						
Diesel Range Organics (C10-C28)	485	29.9	mg/kg	499		97.2	38-132			
Surrogate: o-Terphenyl	40.9		"	39.9		103	50-200			
Matrix Spike (1449005-MS1)				Source: P411085-01		Prepared: 01-Dec-14 Analyzed: 02-Dec-14				
Diesel Range Organics (C10-C28)	555	30.0	mg/kg	499	ND	111	38-132			
Surrogate: o-Terphenyl	45.1		"	40.0		113	50-200			
Matrix Spike Dup (1449005-MSD1)				Source: P411085-01		Prepared: 01-Dec-14 Analyzed: 02-Dec-14				
Diesel Range Organics (C10-C28)	661	30.0	mg/kg	499	ND	132	38-132	17.5	20	
Surrogate: o-Terphenyl	54.4		"	39.9		136	50-200			

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Western Refining Southwest, Inc.	Project Name:	Bisti Spill	Reported: 03-Dec-14 10:21
PO Box 159	Project Number:	96012-0115	
Bloomfield NM, 87413	Project Manager:	Bob Krakow	

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1449006 - Purge and Trap EPA 5030A										
Blank (1449006-BLK1)				Prepared: 01-Dec-14 Analyzed: 02-Dec-14						
Gasoline Range Organics (C6-C10)	ND	9.97	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.376		"	0.399		94.1	50-150			
LCS (1449006-BS1)				Prepared: 01-Dec-14 Analyzed: 02-Dec-14						
Gasoline Range Organics (C6-C10)	270	9.99	mg/kg	292		92.7	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.371		"	0.400		92.8	50-150			
Matrix Spike (1449006-MS1)				Source: P411085-01		Prepared: 01-Dec-14 Analyzed: 02-Dec-14				
Gasoline Range Organics (C6-C10)	280	9.98	mg/kg	292	ND	96.0	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.365		"	0.399		91.4	50-150			
Matrix Spike Dup (1449006-MSD1)				Source: P411085-01		Prepared: 01-Dec-14 Analyzed: 02-Dec-14				
Gasoline Range Organics (C6-C10)	277	9.96	mg/kg	291	ND	95.2	75-125	1.09	15	
Surrogate: 4-Bromochlorobenzene-FID	0.368		"	0.399		92.3	50-150			

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laboratory@envirotech-inc.com



Western Refining Southwest, Inc.
PO Box 159
Bloomfield NM, 87413

Project Name: Bisti Spill
Project Number: 96012-0115
Project Manager: Bob Krakow

Reported:
03-Dec-14 10:21

Notes and Definitions

E Analyte was present at a concentration greater than the calibration curve upper limit.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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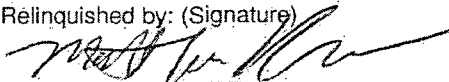
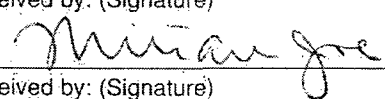

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CHAIN OF CUSTODY RECORD

17552

Client: Western Refining			Project Name / Location: Bisti Spill			ANALYSIS / PARAMETERS															
Email results to: Kelly, Bob, Matt			Sampler Name: Bob			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact		
Client Phone No.:			Client No.: 96012-0115																		
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH	BTEX	VOC	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
					HNO ₃	HCl															
Bisti North	12-14	1:20	P412001-01	1-802 Jars				X	X											X	X
Bisti South	1	12:45	P412001-02	1-802 Jars				X	X											X	X
Bisti East	1	1:30	P412001-03	1-802 Jars				X	X											X	X
Bisti West	1	1:05	P412001-04	1-802 Jars				X	X											X	X
Relinquished by: (Signature) 					Date	Time	Received by: (Signature) 										Date	Time			
					12-14	3:10											12-14	1:10			
Relinquished by: (Signature)							Received by: (Signature)														
Sample Matrix																					
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																					
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area. Rush															22.6 20.8 21.3 21.4						



Analytical Report

Report Summary

Client: Western Refining Southwest, Inc.

Chain Of Custody Number: 17627

Samples Received: 12/16/2014 2:35:00PM

Job Number: 96012-0115

Work Order: P412049

Project Name/Location: Bisti Spill

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 12/18/14

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



Western Refining Southwest, Inc.
PO Box 159
Bloomfield NM, 87413

Project Name: Bisti Spill
Project Number: 96012-0115
Project Manager: Bob Krakow

Reported:
18-Dec-14 10:25

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
South	P412049-01A	Soil	12/16/14	12/16/14	Glass Jar, 8 oz.
East	P412049-02A	Soil	12/16/14	12/16/14	Glass Jar, 8 oz.
North	P412049-03A	Soil	12/16/14	12/16/14	Glass Jar, 8 oz.
West	P412049-04A	Soil	12/16/14	12/16/14	Glass Jar, 8 oz.

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Western Refining Southwest, Inc.
PO Box 159
Bloomfield NM, 87413

Project Name: Bisti Spill
Project Number: 96012-0115
Project Manager: Bob Krakow

Reported:
18-Dec-14 10:25

South
P412049-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	24.8	10.0	mg/kg	1	1451009	12/16/14	12/17/14	EPA 8015D		
Diesel Range Organics (C10-C28)	98.0	30.0	mg/kg	1	1451008	12/16/14	12/17/14	EPA 8015D		
Surrogate: o-Terphenyl		111 %		50-200	1451008	12/16/14	12/17/14	EPA 8015D		
Surrogate: 4-Bromochlorobenzene-FID		102 %		50-150	1451009	12/16/14	12/17/14	EPA 8015D		

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Western Refining Southwest, Inc.
PO Box 159
Bloomfield NM, 87413

Project Name: Bisti Spill
Project Number: 96012-0115
Project Manager: Bob Krakow

Reported:
18-Dec-14 10:25

North
P412049-03 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	158	9.97	mg/kg	1		1451009	12/16/14	12/17/14	EPA 8015D	
Diesel Range Organics (C10-C28)	2190	30.0	mg/kg	1		1451008	12/16/14	12/17/14	EPA 8015D	
Surrogate: o-Terphenyl		107 %		50-200		1451008	12/16/14	12/17/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		119 %		50-150		1451009	12/16/14	12/17/14	EPA 8015D	

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Western Refining Southwest, Inc.
PO Box 159
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Project Name: Bisti Spill
Project Number: 96012-0115
Project Manager: Bob Krakow

Reported:
18-Dec-14 10:25

West
P412049-04 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	37.7	9.99	mg/kg	1	1451009	12/16/14	12/17/14	EPA 8015D	
Diesel Range Organics (C10-C28)	268	30.0	mg/kg	1	1451008	12/16/14	12/17/14	EPA 8015D	
Surrogate: o-Terphenyl		110 %		50-200	1451008	12/16/14	12/17/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		101 %		50-150	1451009	12/16/14	12/17/14	EPA 8015D	

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Western Refining Southwest, Inc.
PO Box 159
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Project Name: Bisti Spill
Project Number: 96012-0115
Project Manager: Bob Krakow

Reported:
18-Dec-14 10:25

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1451008 - DRO Extraction EPA 3550M										
Blank (1451008-BLK1)				Prepared: 16-Dec-14 Analyzed: 17-Dec-14						
Diesel Range Organics (C10-C28)	ND	24.9	mg/kg							
Surrogate: o-Terphenyl	41.7		"	39.9		105	50-200			
LCS (1451008-BS1)				Prepared: 16-Dec-14 Analyzed: 17-Dec-14						
Diesel Range Organics (C10-C28)	487	25.0	mg/kg	500		97.5	38-132			
Surrogate: o-Terphenyl	40.9		"	40.0		102	50-200			
Matrix Spike (1451008-MS1)				Source: P412045-01		Prepared: 16-Dec-14 Analyzed: 17-Dec-14				
Diesel Range Organics (C10-C28)	711	29.9	mg/kg	498	ND	143	38-132			SPK1
Surrogate: o-Terphenyl	57.8		"	39.9		145	50-200			
Matrix Spike Dup (1451008-MSD1)				Source: P412045-01		Prepared: 16-Dec-14 Analyzed: 17-Dec-14				
Diesel Range Organics (C10-C28)	658	30.0	mg/kg	499	ND	132	38-132	7.76	20	
Surrogate: o-Terphenyl	53.1		"	39.9		133	50-200			

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Western Refining Southwest, Inc.
PO Box 159
Bloomfield NM, 87413

Project Name: Bisti Spill
Project Number: 96012-0115
Project Manager: Bob Krakow

Reported:
18-Dec-14 10:25

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1451009 - Purge and Trap EPA 5030A										
Blank (1451009-BLK1)				Prepared: 16-Dec-14 Analyzed: 17-Dec-14						
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.383		"	0.399		95.9	50-150			
LCS (1451009-BS1)				Prepared: 16-Dec-14 Analyzed: 17-Dec-14						
Gasoline Range Organics (C6-C10)	312	9.97	mg/kg	291		107	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.379		"	0.399		94.9	50-150			
Matrix Spike (1451009-MS1)				Source: P412045-01		Prepared: 16-Dec-14 Analyzed: 17-Dec-14				
Gasoline Range Organics (C6-C10)	314	9.98	mg/kg	291	ND	108	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.358		"	0.399		89.6	50-150			
Matrix Spike Dup (1451009-MSD1)				Source: P412045-01		Prepared: 16-Dec-14 Analyzed: 17-Dec-14				
Gasoline Range Organics (C6-C10)	318	9.98	mg/kg	292	ND	109	75-125	1.15	15	
Surrogate: 4-Bromochlorobenzene-FID	0.362		"	0.399		90.7	50-150			

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Western Refining Southwest, Inc.
PO Box 159
Bloomfield NM, 87413

Project Name: Bisti Spill
Project Number: 96012-0115
Project Manager: Bob Krakow

Reported:
18-Dec-14 10:25

Notes and Definitions

SPK1 The spike recovery for this QC sample is outside of control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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CHAIN OF CUSTODY RECORD

17627

Client: <i>Western Refining</i>			Project Name / Location: <i>Bisti Spill</i>			ANALYSIS / PARAMETERS																															
Email results to: <i>Kelly, Bob, Matt</i>			Sampler Name:			<table border="1"> <tr> <td>TPH (Method 8015)</td> <td>BTEX (Method 8021)</td> <td>VOC (Method 8260)</td> <td>PCRA 8 Metals</td> <td>Cation / Anion</td> <td>RCI</td> <td>TCLP with H/P</td> <td>CO Table 910-1</td> <td>TPH (418.1)</td> <td>CHLORIDE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Sample Cool</td> <td>Sample Intact</td> </tr> </table>														TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE							Sample Cool	Sample Intact
TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	RCI															TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE							Sample Cool	Sample Intact						
Client Phone No.:			Client No.: <i>96012-0115</i>																																		
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE							Sample Cool	Sample Intact												
					HNO ₃	HCl																															
<i>South</i>	<i>12/16/14</i>	<i>1:30</i>	<i>P412049-01</i>	<i>1-8oz Jar</i>				<i>X</i>																<i>✓</i>	<i>✓</i>												
<i>East</i>	<i>12/16/14</i>	<i>1:35</i>	<i>P412049-02</i>	<i>/</i>				<i>X</i>																<i>✓</i>	<i>✓</i>												
<i>North</i>	<i>12/16/14</i>	<i>1:40</i>	<i>P412049-03</i>	<i>/</i>				<i>X</i>																<i>✓</i>	<i>✓</i>												
<i>West</i>	<i>12/16/14</i>	<i>1:45</i>	<i>P412049-04</i>	<i>/</i>				<i>X</i>																<i>✓</i>	<i>✓</i>												
Relinquished by: (Signature) <i>[Signature]</i>					Date <i>12/16/14</i>	Time <i>2:35</i>	Received by: (Signature) <i>[Signature]</i>					Date <i>12/16/14</i>	Time <i>2:35</i>																								
Relinquished by: (Signature)							Received by: (Signature) <i>[Signature]</i>																														
Sample Matrix Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																																					

☐ Sample(s) dropped off after hours to secure drop off area.

Rush



envirotech
Analytical Laboratory

14.7 13.8 15.6



Analytical Report

Report Summary

Client: Western Refining Southwest, Inc.

Chain Of Custody Number: 17632

Samples Received: 12/18/2014 10:45:00AM

Job Number: 96012-0115

Work Order: P412062

Project Name/Location: Bisti Spill

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 12/19/14

Tim Cain, Laboratory Manager

Supplement to analytical report generated on: 12/19/14 12:27 pm

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Western Refining Southwest, Inc.
PO Box 159
Bloomfield NM, 87413

Project Name: Bisti Spill
Project Number: 96012-0115
Project Manager: Bob Krakow

Reported:
19-Dec-14 14:16

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
North	P412062-01A	Soil	12/18/14	12/18/14	Glass Jar, 4 oz.

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Western Refining Southwest, Inc.
PO Box 159
Bloomfield NM, 87413

Project Name: Bisti Spill
Project Number: 96012-0115
Project Manager: Bob Krakow

Reported:
19-Dec-14 14:16

North
P412062-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	314	9.99	mg/kg	1		1451026	12/18/14	12/19/14	EPA 8015D	
Diesel Range Organics (C10-C28)	838	30.0	mg/kg	1		1451025	12/18/14	12/19/14	EPA 8015D	
Surrogate: o-Terphenyl		117 %		50-200		1451025	12/18/14	12/19/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		142 %		50-150		1451026	12/18/14	12/19/14	EPA 8015D	

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Western Refining Southwest, Inc.
PO Box 159
Bloomfield NM, 87413

Project Name: Bisti Spill
Project Number: 96012-0115
Project Manager: Bob Krakow

Reported:
19-Dec-14 14:16

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1451025 - DRO Extraction EPA 3550M										
Blank (1451025-BLK1)				Prepared & Analyzed: 18-Dec-14						
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
Surrogate: o-Terphenyl	39.1		"	39.9		98.1	50-200			
LCS (1451025-BS1)				Prepared & Analyzed: 18-Dec-14						
Diesel Range Organics (C10-C28)	508	29.9	mg/kg	499		102	38-132			
Surrogate: o-Terphenyl	45.1		"	39.9		113	50-200			
Matrix Spike (1451025-MS1)				Source: P412060-01		Prepared & Analyzed: 18-Dec-14				
Diesel Range Organics (C10-C28)	599	30.0	mg/kg	499	ND	120	38-132			
Surrogate: o-Terphenyl	50.6		"	39.9		127	50-200			
Matrix Spike Dup (1451025-MSD1)				Source: P412060-01		Prepared & Analyzed: 18-Dec-14				
Diesel Range Organics (C10-C28)	537	30.0	mg/kg	500	ND	108	38-132	10.8	20	
Surrogate: o-Terphenyl	47.0		"	40.0		118	50-200			

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Western Refining Southwest, Inc.	Project Name:	Bisti Spill	Reported: 19-Dec-14 14:16
PO Box 159	Project Number:	96012-0115	
Bloomfield NM, 87413	Project Manager:	Bob Krakow	

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1451026 - Purge and Trap EPA 5030A										
Blank (1451026-BLK1)				Prepared & Analyzed: 18-Dec-14						
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.380		"	0.400		95.1	50-150			
LCS (1451026-BS1)				Prepared & Analyzed: 18-Dec-14						
Gasoline Range Organics (C6-C10)	316	9.98	mg/kg	291		109	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.382		"	0.399		95.9	50-150			
Matrix Spike (1451026-MS1)				Source: P412060-01		Prepared & Analyzed: 18-Dec-14				
Gasoline Range Organics (C6-C10)	301	9.99	mg/kg	292	ND	103	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.382		"	0.399		95.7	50-150			
Matrix Spike Dup (1451026-MSD1)				Source: P412060-01		Prepared & Analyzed: 18-Dec-14				
Gasoline Range Organics (C6-C10)	319	9.99	mg/kg	292	ND	110	75-125	5.91	15	
Surrogate: 4-Bromochlorobenzene-FID	0.379		"	0.399		94.9	50-150			

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Western Refining Southwest, Inc.
PO Box 159
Bloomfield NM, 87413

Project Name: Bisti Spill
Project Number: 96012-0115
Project Manager: Bob Krakow

Reported:
19-Dec-14 14:16

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

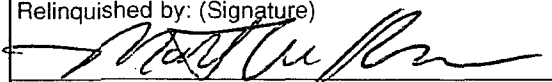


Ph (505) 632-0615 Fx (505) 632-1865

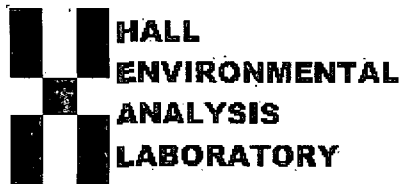
Ph (970) 259-0615 Fr (800) 362-1879



CHAIN OF CUSTODY RECORD

17632

Client: Western Refining			Project Name / Location: Bisti Spill			GRS DRS ANALYSIS / PARAMETERS																
Email results to: Kelly Bob Matt			Sampler Name: Matt			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE					Sample Cool	Sample Intact	
Client Phone No.:			Client No.: 96012-0115																			
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative																	
					HNO ₃	HCl																
North	12/18/14	10:15		1-8oz Jar				X													Y	Y
Relinquished by: (Signature) 					Date 12/18/14	Time 10:45	Received by: (Signature) 					Date 12/18/14	Time 10:45									
Relinquished by: (Signature)							Received by: (Signature)															
Sample Matrix Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																						
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area. <div style="display: flex; justify-content: space-between; align-items: center;"> RUSH <div style="text-align: center;">  envirotech Analytical Laboratory </div> 22.1 </div>																						



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

January 02, 2015

Kelly Robinson

Western Refining Southwest, Inc.

#50 CR 4990

Bloomfield, NM 87413

TEL: (505) 632-4166

FAX (505) 632-3911

RE: Bisti Spill

OrderNo.: 1412B91

Dear Kelly Robinson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/31/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1412B91

Date Reported: 1/2/2015

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Southwest, Inc.**Client Sample ID:** North**Project:** Bisti Spill**Collection Date:** 12/30/2014 1:45:00 PM**Lab ID:** 1412B91-001**Matrix:** SOIL**Received Date:** 12/31/2014 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	280	10		mg/Kg	1	12/31/2014 1:03:50 PM	17041
Surr: DNOP	104	63.5-128		%REC	1	12/31/2014 1:03:50 PM	17041
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	27	16		mg/Kg	4	12/31/2014 10:34:05 AM	R23436
Surr: BFB	170	80-120	S	%REC	4	12/31/2014 10:34:05 AM	R23436

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1412B91

02-Jan-15

Client: Western Refining Southwest, Inc.

Project: Bisti Spill

Sample ID	MB-17041	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	17041	RunNo:	23412					
Prep Date:	12/31/2014	Analysis Date:	12/31/2014	SeqNo:	692482	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.0		10.00		79.9	63.5	128			

Sample ID	LCS-17041	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	17041	RunNo:	23412					
Prep Date:	12/31/2014	Analysis Date:	12/31/2014	SeqNo:	692503	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.2	67.8	130			
Surr: DNOP	4.1		5.000		81.8	63.5	128			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1412B91

02-Jan-15

Client: Western Refining Southwest, Inc.

Project: Bisti Spill

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	R23436	RunNo:	23436					
Prep Date:		Analysis Date:	12/31/2014	SeqNo:	692699	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	870		1000		86.8	80	120			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	R23436	RunNo:	23436					
Prep Date:		Analysis Date:	12/31/2014	SeqNo:	692700	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.7	65.8	139			
Surr: BFB	970		1000		97.3	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Western Refining Southw

Work Order Number: 1412B91

RcptNo: 1

Received by/date: AT 12/31/14

Logged By: Anne Thorne 12/31/2014 7:30:00 AM

Completed By: Anne Thorne 12/31/2014

Reviewed By: [Signature] 12/31/14

[Signature]

[Signature]

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	<input type="text"/>	Date	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

17. Additional remarks:

18. Cooler Information

Cooler No.	Temp. °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	1.3	Good	Yes			

Chain-of-Custody Record

Print-Around Time:

Client: Western Refining

☐ Standard ☒ Rush Same Day

Mailing Address: 111 CE 4990

Project Name: Bisti Spill

Bleed-through: N/A 87413

Project #:

Phone #: 505-633-4166

Mail or Fax#:

Project Manager:

QA/QC Package: ☐ Level 4 (Full Validation)

Kelly Robinson

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Sampler:

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.3

Date

Time

Matrix

Sample Request ID

Container Type and #

Preservative Type

HEAL No

30-14

1:45

Soil

North

8 oz Jar

1412391

-201

BTEX + MTBE + TMB's (8021)	
BTEX + MTBE + TPH (Gas only)	
TPH 8015B (GRO / DRO / MS)	X
TPH (Method 418.1)	
EDB (Method 504.1)	
PAH's (8310 or 8270 SIMS)	
RCRA 8 Metals	
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	
8081 Pesticides / 8082 PCB's	
8260B (VOA)	
8270 (Semi-VOA)	
Air Bubbles (Y or N)	



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date: 12/30/14 Time: 3:00 Relinquished by: [Signature]

Received by: [Signature] Date: 12/31/14 Time: 1625

Date: 12/11/14 Time: 1746

Relinquished by: [Signature]

Received by: [Signature]

Date: 12/31/14 Time: 1625

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Robinson, Kelly

From: Robinson, Kelly
Sent: Tuesday, November 25, 2014 6:09 PM
To: Smith, Cory, EMNRD; Powell, Brandon, EMNRD
Cc: Krakow, Matt; Schmaltz, Randy
Subject: Release Notification and Corrective Action (C-141) Initial Report
Attachments: C-141_Initial Report_Bisti_Nov 25 2014.pdf

Good Afternoon Gentlemen,

The following is a follow-up to my initial conversation with the New Mexico Oil Conservation Division (NMOCD) this afternoon regarding a Crude Oil Release Event which occurred at our Bisti Crude Station earlier today. The incident was caused by a booster pump seal failure. The seal failure resulted in the release of approximately 62 barrels of crude oil, of which 58 barrels were recovered using an on-site vacuum truck. The oil spill was contained within the confines of concrete berm around the perimeter of the booster pump skid. Attached is the Initial C-141 Report documenting this event with the information we have obtained to-date. Impacted soil is being excavated, and will be shipped off-site for disposal. Western will be collecting final confirmation samples in the field once excavation efforts are completed. Upon receipt of the final confirmation samples, Western will submit a Final C-141 Report documenting the Event, and include any follow-up information pertaining to the clean-up effort.

If you have any questions on this matter, please do not hesitate to contact me at your convenience.

Thank you for your time!

Sincerely,

Kelly R. Robinson | Environmental
Western Refining | 111 County Road 4990 | Bloomfield, NM87413
(o) 505-632-4166 | (c) 505-801-5616 | (e) kelly.robinson@wnr.com

Robinson, Kelly

From: Robinson, Kelly
Sent: Monday, January 05, 2015 3:22 PM
To: 'Smith, Cory, EMNRD'
Cc: 'Ketcham, Shari'; Schmaltz, Randy; Krakow, Matt; 'Jonathan.Kelly@state.nm.us'
Subject: RE: Revised Initial C-141 - Bisti Station Crude Spill from November 25, 2014

Good Afternoon Sir,

I wanted to give you an up-date with regards to the clean-up efforts at the Western Refining Bisti Station. Below is a summary of the analytical results, which includes a final characterization sample of the area. As previously discussed through conversations with NMOCD and BLM, the site-specific clean-up standards for this event were identified to be as follows:

- Benzene: 10 mg/kg
- BTEX: 50 mg/kg
- TPH: 1,000 mg/kg

The results indicate that the area remaining is characterized to meet the clean-up standards for the facility. Most of the excavated soils has been shipped-off site for proper disposal. The remaining material on-site has been placed into drums until it can be arranged for pick. Western would like to restore the stability and secondary containment of the area as soon as possible in lieu of these positive results. This area is within the vicinity of active equipment, and we would like to ensure the area is properly backfilled prior to any potential future impacts. We have a crew scheduled to begin the backfill process starting Tuesday morning (January 6th, 2015). I am currently working on a final C-141 Report that will include the analytical summary provided below, in addition to the supporting analytical reports.

Sample ID	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	BTEX (mg/kg)
Clean-Up Standard ->	10	---	---	---	50
South	<0.10	0.2	0.32	2.23	2.75
East	<0.40	0.93	2.00	14.1	17.0
North	0.48	0.84	2.61	10.7	14.63
West	<0.20	2.15	2.45	14.9	19.5

Sample ID	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH Total (mg/kg)	Clean-Up Standard (mg/kg)
South	52	965	1,017	1,000
East	231	3,440	3,671	1,000
North	309	9,620	9,929	1,000
West	215	3,510	3,725	1,000

Note: Sample results are for samples collected on 12/1/2014

Sample ID	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH Total (mg/kg)	Clean-Up Standard (mg/kg)
-----------	--------------------	--------------------	----------------------	---------------------------------

South	24.8	98	122.8	1000
East	155	438	593	1000
North	158	2190	2348	1000
West	37.7	268	305.7	1000

Note: Sample results are for samples collected on 12/16/2014.

Sample ID	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH Total (mg/kg)	Clean-Up Standard (mg/kg)
North	314	838	1152	1000

Note: Sample results are for samples collected on 12/18/2014.

Sample ID	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH Total (mg/kg)	Clean-Up Standard (mg/kg)
North (Area Composite)	27	280	307	1,000

Note: Sample results are for samples collected on 12/31/2014.

If you have any questions on this matter, please do not hesitate to contact me at your convenience.

Thank you for your time!

Sincerely,

Kelly R. Robinson | Environmental
Western Refining | 111 County Road 4990 | Bloomfield, NM87413
(o) 505-632-4166 | (c) 505-801-5616 | (e) kelly.robinson@wnr.com

From: Robinson, Kelly
Sent: Monday, December 22, 2014 4:30 PM
To: 'Smith, Cory, EMNRD'
Cc: Krakow, Matt; 'Ketcham, Shari'; Schmaltz, Randy; Richards, Dave
Subject: RE: Revised Initial C-141 - Bisti Station Crude Spill from November 25, 2014

Good Afternoon Sir!

I hope you had a great vacation!

Here is an up-date of what has transpired thus far. On December 16, 2014 additional confirmation samples were collected following additional field excavation efforts. Mr. Kelly (OCD) was on-site to witness these sampling efforts. The analytical results for this sampling effort are provided in the attached analytical report (Report P412049) and are summarized as follows:

Sample ID	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)	TPH Total (mg/kg)	Clean-Up Standard (mg/kg)
-----------	------------------------	------------------------	-------------------------	------------------------------

South	24.8	98	122.8	1000
East	155	438	593	1000
North	158	2190	2348	1000
West	37.7	268	305.7	1000

Note: Sample results are for samples collected on 12/16/2014.

When we got the preliminary results, we initiated additional excavation along the area from where the "North" sample was collected. On December 18th, we collected an additional sample along that "North" excavation area. The results from the December 18th sampling event are attached, and a summary of those results in comparison to the site-specific clean-up standard are as follows:

Sample ID	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH Total (mg/kg)	Clean-Up Standard (mg/kg)
North	314	838	1152	1000

Note: Sample results are for samples collected on 12/18/2014.

Additional excavation was initiated last Friday through this morning. Upon re-inspection of the area by our team, we collected another confirmation sample. That sample was submitted to Envirotech this afternoon. We have not received neither preliminary nor final results for that sampling effort. We are hopeful that this final sample will show that the existing conditions are below the site-specific clean-up standards for the facility. If that proves to be true, we will submit a Final C-141 Report summarizing all that was done during this event for your records. We have held-off in doing any on-site backfilling until we receive the final confirmation sample results.

If you have any questions on this or would like to discuss it further, please do not hesitate to let me know anytime.

Thank you, Sir! Happy Holidays!

Kelly R. Robinson | Environmental
Western Refining | 111 County Road 4990 | Bloomfield, NM87413
(o) 505-632-4166 | (c) 505-801-5616 | (e) kelly.robinson@wnr.com

From: Smith, Cory, EMNRD [<mailto:Cory.Smith@state.nm.us>]
Sent: Monday, December 22, 2014 3:14 PM
To: Robinson, Kelly
Subject: RE: Revised Initial C-141 - Bisti Station Crude Spill from November 25, 2014

Kelly,

Has there been any update on the Bisti Release since Jonathan was at the site?

Thank you,

From: Robinson, Kelly [<mailto:Kelly.Robinson@wnr.com>]
Sent: Tuesday, December 16, 2014 9:30 AM
To: Powell, Brandon, EMNRD; Ketcham, Shari
Cc: Smith, Cory, EMNRD; Krakow, Matt; Schmaltz, Randy; Richards, Dave; Kelly, Jonathan, EMNRD
Subject: RE: Revised Initial C-141 - Bisti Station Crude Spill from November 25, 2014

Thank you Brandon and Shari for your quick response. We will be coordinating the field confirmation sampling with Mr. Jonathan Kelly so that OCD is provided the opportunity to observe the sampling, as requested.

Thanks again!

Kelly R. Robinson | Environmental
Western Refining | 111 County Road 4990 | Bloomfield, NM87413
(o) 505-632-4166 | (c) 505-801-5616 | (e) kelly.robinson@wnr.com

From: Powell, Brandon, EMNRD [<mailto:Brandon.Powell@state.nm.us>]
Sent: Tuesday, December 16, 2014 7:46 AM
To: Ketcham, Shari; Robinson, Kelly
Cc: Smith, Cory, EMNRD; Krakow, Matt; Schmaltz, Randy; Richards, Dave; Kelly, Jonathan, EMNRD
Subject: RE: Revised Initial C-141 - Bisti Station Crude Spill from November 25, 2014

We concur with the BLM's ranking of 10 as the depth to groundwater in the West Gallegos wash is very shallow.

Thank You
Brandon Powell
I & E Supervisor
New Mexico Oil Conservation
Office: (505) 334-6178 ext. 116

"He who wishes to gain knowledge is wiser than he who thinks he has knowledge (unknown)"

From: Ketcham, Shari [<mailto:sketcham@blm.gov>]
Sent: Tuesday, December 16, 2014 7:37 AM
To: Robinson, Kelly
Cc: Smith, Cory, EMNRD; Krakow, Matt; Schmaltz, Randy; Richards, Dave; Powell, Brandon, EMNRD
Subject: Re: Revised Initial C-141 - Bisti Station Crude Spill from November 25, 2014

For the depth to groundwater, I found that it should be 50-99 ft since the elevation is 1828 ft at the spill location and horizontal distance to the USGS watercourse to the east is 1813 ft elevation that is a difference of 15 ft. Since this is a moderate sized wash, I believe 50-99 ft depth would be correct.

For this reason, BLM ranks this location as a 10. Please clean to this standard under NMOCD guidelines.

Thank you!

Shari Ketcham
Natural Resource Specialist, Spills Biologist
BLM Farmington Field Office
6251 College Blvd Suite A
Farmington, NM 87402
Office: (505) 564-7713
Fax: (505) 564-7607

On Mon, Dec 15, 2014 at 5:28 PM, Robinson, Kelly <Kelly.Robinson@wnr.com> wrote:

Good Morning Sir,

I wanted to provide you an up-date regarding the Crude Oil spill which occurred within the boundary of our Bisti Station. As you may recall, this incident was initially reported to the New Mexico Oil Conservation Division (NMOCD) on November 25, 2014 (the day the incident occurred). I understand from discussions with our Pipeline field personnel that you did observe the impacted area during a Site visit on November 26, 2014. Since your visit, Western has continued excavation activities to remove the impacted soils in preparation for off-site disposal and closure of this event under the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases* dated August 13, 1993.

Following the initial reporting of this event, Western has confirmed that this facility was originally issued an operation lease through the Bureau of Land Management (BLM). The land has since changed hands and thus is now designated as Bureau of Indian Affairs (BIA) trust land. Following confirmation of this fact, Western has since made the appropriate notifications to both BIA and BLM regarding this incident. Those additional notifications were followed-up with a field site visit by members of BLM. I accompanied BLM during their site visit earlier this morning.

As for the applicable clean-up standards for this facility, Western has reviewed the guideline ranking criteria for unsaturated contaminated soils as stated in the NMOCD guidelines. Based on the geographic location of the facility, Western is requesting OCD and BLM's concurrence with the following proposed ranking and respective clean-up standards.

- Depth to Groundwater : Based on conservative comparison to the surface elevation of the facility in relation to the surface elevation of the nearby dry wash, the elevation difference between the two locations is greater than 100 feet.

- Recommended Ranking Score = 0

- Wellhead Protection Areas: There are no known or observed water sources within 1,000 feet of the facility, and no private domestic water sources within 200 feet of the facility.

- Recommended Ranking Score = 0

- Distance to Surface Water Body: Based on the USGS Topo map, the nearest conservative estimated distance from the facility to any adjacent wash is greater than 1,000 feet.

- Recommended Ranking Score = 0

Based on these recommended rankings, Western is requesting acceptance of the following respective clean-up standards based on the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases*:

- Benzene (via EPA Method 8021) = 10 ppm
- Benzene, Toluene, Ethyl benzene, and total Xylenes (via EPA Method 8021) = 50 ppm
- TPH-DRO and TPH-GRO (via EPA Method 8015) = 5,000 ppm

Western collected the first round of confirmation samples on December 1st, 2014. A total of four composite samples were collected to determine the progress of the excavation effort. The results showed that the remaining soils were below the proposed clean-up standards for three of the four sides of the excavation. Since then, Western has removed additional soils. As of this afternoon, Western is hopeful that the excavation efforts are completed. We would like to collect the final confirmation samples as early as Tuesday morning (December 16, 2014). It is Western's intent to submit the sample(s) to Envirotech for rush analyses to determine if we can commence backfilling.

If you have any questions regarding this information or would like to discuss further, please do not hesitate to let me know at your convenience.

Kelly R. Robinson | Environmental

Western Refining | 111 County Road 4990 | Bloomfield, NM87413

(o) 505-632-4166 | (c) 505-801-5616 | (e) kelly.robinson@wnr.com