

3R-1032

**Release Report/ General
Correspondence**

Western McKinley

Date: Oct-Dec 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

OIL CONS. DIV DIST. 3

OCT 21 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	Telephone No.: 505-632-4166
Facility Name: East Line at MP-33	Facility Type: N/A
Surface Owner: Tribal Allotted	Mineral Owner: NA
	API No.: NA

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
SWNW	15	15N	13W					

Latitude 35.53175 Longitude -108.21024

NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: 682 barrels	Volume Recovered: 0 liquid barrels
Source of Release: Line Strike by Navajo Nation DOT	Date and Hour of Occurrence: 6/30/2015 shortly before 1:20pm	Date and Hour of Discovery: WNR notified 6/30/2015 1:20pm
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 NMOCD, Aztec District Office Bureau of Indian Affairs USEPA Region 6 USEPA Region 9 PHMSA BLM Farmington Office	
By Whom? Kelly Robinson and Dave Richards	Date and Hour: 6/30/2015 all notifications made within 4 hours of the incident.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

At 1:20pm on June 30th, 2015, Western Refining Pipeline Control Center received a call reporting a line strike on the East Line between Hospah and Gallup. Western Control Room Operators immediately initiated the East Line shutdown procedures. The line strike was reported to have occurred near pipeline MP 33, near Smith Lake in McKinley County, NM.

Cause of Release:

It was reported that Navajo Nation DOT was using a road grader to grade the roadway when the line strike occurred. The road grader struck the Western pipeline, causing a release of crude oil from the pipeline. The Navajo Nation DOT personnel reported the incident immediately to their respective supervisor, who in-turn contacted Western Refining.

Response Action:

The control room shut down the pipeline and upstream and downstream valves were blocked in, minimizing the volume released. Western immediately initiated the Pipeline Emergency Response Procedures, and the Emergency Response Teams mobilized to the scene. Western Emergency Responders worked with Local Law Enforcement personnel who reported to the scene.

Describe Area Affected and Cleanup Action Taken.*

Area Affected

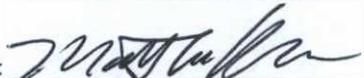
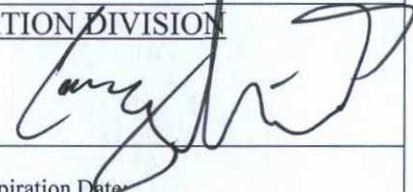
The line strike resulted in the release of approximately 682 barrels (based on meter readings) of crude oil to ground surface. Crude oil traveled south along the borrow ditch approximately 400 feet before traveling west under the roadway via an established storm water culvert. The spread of the oil west followed the surface contour of the ground surface, extending approximately 500 feet west of the roadway. The width of the overland spread varied from 1 ft to approximately 100 feet. Crude oil did not impact any active water sources.

Cleanup Actions Taken

On July 1st, 2015, Western initiated the remediation of impacted soil along the barrow ditch. Western continued to coordinate with local BIA, EPA, PHMSA, and NMOCD agency representatives providing periodic up-dates on clean-up progress. Representatives from all agencies did visit the site within 48-hours of the incident occurring. Clean-up standards for this event have been established by NMOCD. The clean-up standards follow the NMOCD "Guidelines for Remediation of Leaks, Spills and Releases" dated August 13, 1993 using these guidelines NMOCD set this sites ranking as 20.

On Monday, July 22nd, 2015, Western finished the cleanup effort. Approximately 4,464 cubic yards of crude impacted soil was excavated and hauled off to the Envirotech Landfarm for treatment. Confirmation and background samples were collected from the remediation site. Sample results confirmed that the NMOCD cleanup standards had been met (sample map included with C-141). NMOCD inspected the remediation site and granted Western permission f to backfill the area. Western restored the landscape and reseeded the area with an approved seed mixture (BLM sagebrush community).

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

Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: <i>Matthew Krakow</i>		Approved by Environmental Specialist: 	
Title: <i>Environmental Coordinator</i>		Approval Date: <i>12/15/15</i>	Expiration Date:
E-mail Address: <i>Matt.Krakow@WNR.com</i>		Conditions of Approval:	
Date: <i>10/20/15</i>	Phone: <i>505-632-4169</i>	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

NCS 1521538651



13514 Road 29
Dolores, CO 81323
Phone: (970) 565-8722

Custom Bulk Seed Mixture Analysis
LOT NO: 2015.0575

8/10/2015

SEED INC

Species: WESTERN REFINING

Variety: *BLM SAGEBRUSH COMMUNITY

Lot No	Species	Variety	CL	OR	PURE	INERT	CROP	WEED	Rstr	Nox	Live	PLS	Test Date	Bulk LBS	PLS LBS	Pure %
2012.0525	SQUIRRELTAIL BOTTLEBRUSH	BOTTLEBRUSH		WA	92.63	7.19	0.00	0.18	NF	NF	92	85.22	10/03/14	7.04	6	15.17
2013.0028	LEWIS FLAX	APPAR		WA	94.54	5.13	0.26	0.07	NF	NF	88	83.20	11/28/14	.6	.5	1.32
2013.0309	SMALL BURNET	DELAR		OR	99.94	0.06	0.00	0.00	NF	NF	96	95.94	02/20/15	4.17	4	9.69
2014.0053	SANDWICHSEED	VNS	S	CO	93.38	0.57	0.00	0.05	NF	NF	95	94.81	04/02/15	1.06	1	2.45
2014.0054	FOURWING SALTBUSSH	SW NATIVE		CO	93.70	6.20	0.00	0.10	NF	NF	46	43.10	06/22/15	9.28	4	20.23
2014.0891	BLUE GRAMA	ALMA	C	CO	78.64	21.36	0.00	0.05	NF	NF	93	73.14	12/31/14	5.47	4	10.00
2014.1045	WESTERN WHEATGRASS	ARRIBA	C	WA	96.96	3.04	0.00	0.00	NF	NF	94	91.14	02/08/15	8.78	8	19.80
2015.0530	WINTERFAT	VNS		NM	91.86	8.11	0.03	0.00	NF	NF	60	60.63	02/18/15	6.6	4	14.09
Pure: 92.75% Inert: 7.18% Crop: 0.01% Weed: 0.06% Total: 100.00%													Grand Total		43.00	31.50

REMARK: 2 BAGS EACH CONTAINING 21.5 BULK #S (15.75 PLS #S) EACH TO SEED 1 ACRE

Noxious Weeds (seeds/lb):

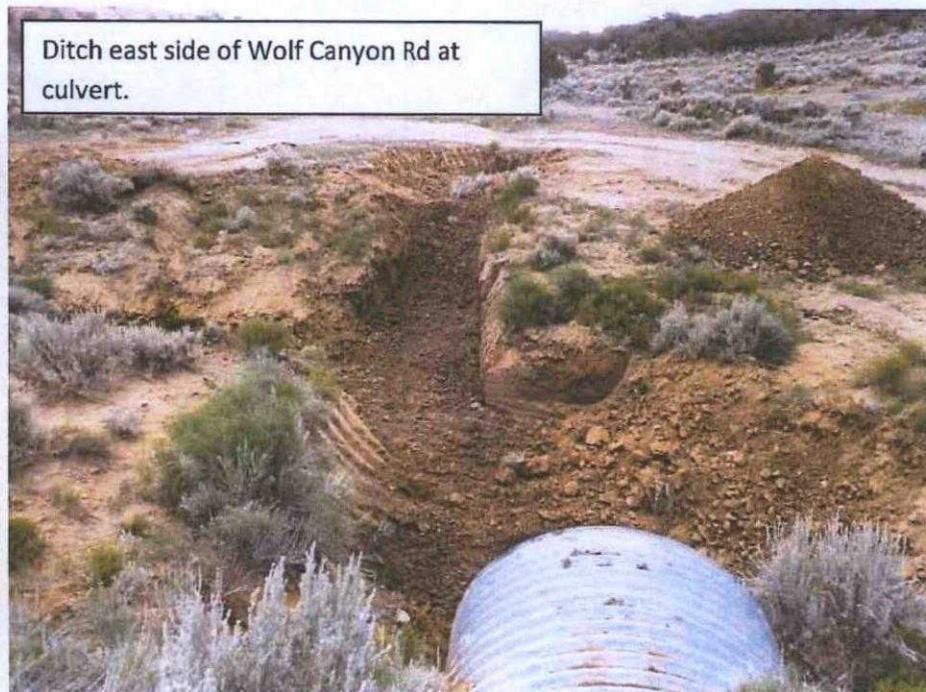
NOTICE TO BUYER - EXCLUSION OF WARRANTY AND LIMITATION We warrant that the seed sold has been tested and found to be true to label and that the seed is free from noxious weeds. NO OTHER WARRANTY IS MADE, expressed or implied, INCLUDING WITHOUT LIMITATION, THE MERCHANTABILITY, THE PERFORMANCE OF THE CROP AS TO YIELD OR QUALITY, OR THE FITNESS FOR PARTICULAR PURPOSES. It is expressly agreed that the liability to the buyer is limited to the amount of the purchase price of the seed. Seed not accepted on the above terms and conditions may be returned to the place of purchase in the unopened containers within 30 days. Under the "Colorado Seed Act" arbitration is required as a prerequisite to certain legal actions, counterclaims, or defenses against a seller of seed. Information about this requirement may be obtained from the Colorado Commissioner of Agriculture.

MP-33

Ditch east side of Wolf Canyon Rd.



Ditch east side of Wolf Canyon Rd at culvert.



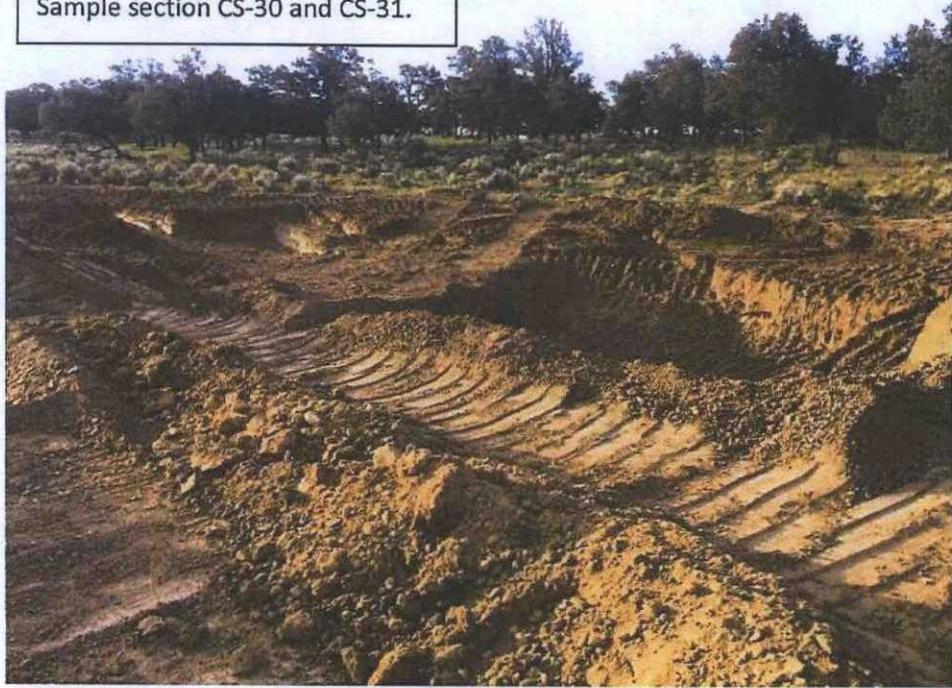
Ditch west side of Wolf Canyon Rd at culvert.



Sample section CS-29 and CS-30.



Sample section CS-30 and CS-31.



Sample section CS-32 and CS-33.



Sample section CS-26 and CS-27, CS-27-1, CS-38, CS-39, and CS-40.



Sample section CS-35 and CS-27, CS-27-1, CS-38, CS-39, and CS-40.





Western Refining Pipeline,LLC					
MP-33 Spill - Sample Log					
Sample ID	Sample Date	Comments	PID Readings (ppm)	TPH(ppm)	BTEX(ppm)
CS-1	7/1/2015	base 4' below ground surface	13.5	ND	NR
CS-2	7/1/2015	barrow ditch end	14.5	ND	NR
CS-3	7/1/2015	base southside of WNR Pipeline	54.0	ND	NR
CS-4	7/1/2015	base 15' from pipeline	3.1	ND	NR
CS-5	7/1/2015	20' composite south of CS-4 sample	13.0	ND	NR
CS-6	7/1/2015	20' composite south of CS-5 sample	4.9	ND	NR
CS-7	7/1/2015	20' composite south of CS-6 sample	5.8	ND	NR
CS-8	7/1/2015	20' composite south of CS-7 sample	3.4	ND	NR
CS-9	7/1/2015	20' composite south of CS-8 sample	6.4	ND	NR
CS-10	7/1/2015	20' composite south of CS-9 sample	25.8	ND	NR
CS-11	7/1/2015	20' composite south of CS-10 sample	47.0	ND	NR
CS-12	7/1/2015	20' composite south of CS-11 sample	4.2	ND	NR
CS-13	7/1/2015	20' composite south of CS-12 sample	1.5	ND	NR
CS-14	7/1/2015	20' composite south of CS-13 sample	6.6	ND	NR
CS-15	7/1/2015	20' composite south of CS-14 sample	4.2	ND	NR
CS-16	7/1/2015	20' composite south of CS-15 sample	1.0	ND	NR
CS-17	7/1/2015	20' composite south of CS-16 sample	2.7	ND	NR
CS-18	7/2/2015	0-10' composite west of colvert	5.6	ND	NR
CS-19	7/2/2015	20' composite west of CS-18 sample	4.1	ND	NR
CS-20	7/2/2015	20' composite west of CS-19 sample	5.7	ND	NR
CS-21	7/2/2015	20' composite west of CS-20 sample	23.4	ND	NR
CS-22	7/2/2015	20' composite west of CS-21 sample	19.3	ND	NR
CS-23	7/2/2015	20' composite west of CS-22 sample	19.6	ND	NR
CS-24	7/9/2015	five point composite sample	65.0	ND	NR
CS-25	7/9/2015	five point composite sample	16.0	ND	NR
CS-26	7/13/2015	five point composite sample	52.1	ND	NR
CS-27	7/13/2015	five point composite sample	48.4	520.7	NR
CS-27-1	7/15/2015	five point CS-27 composite re-sample	23.0	ND	NR
CS-28	7/14/2015	five point composite sample	215.0	90.5	ND
CS-29	7/14/2015	five point composite sample	158.0	77.9	ND

Sample ID	Sample Date	Comments	PID Readings (ppm)	TPH(ppm)	BTEX(ppm)
CS-30	7/15/2015	five point composite sample	12.0	11.8	NR
CS-31	7/15/2015	five point composite sample	203.0	52.2	ND
CS-32	7/17/2015	five point composite sample	6.8	ND	ND
CS-33	7/17/2015	five point composite sample	203.0	ND	ND
CS-34	7/17/2015	five point composite sample	9.5	ND	NR
CS-34a - Trench Bottom	7/17/2015	grab Sample	59.8	ND	NR
CS-34a - N. Trench Wall	7/17/2015	grab sample	35.1	290	NR
CS-34a - S. Trench Wall	7/17/2015	grab sample	7.9	ND	NR
CS-34 Bottom	7/17/2015	grab Sample	59.8	ND	NR
CS-34a -N	7/17/2015	grab Sample	42.7	ND	NR
CS-34a- E	7/17/2015	grab Sample	11.3	ND	NR
CS-34a- S	7/17/2015	grab Sample	11.4	ND	NR
CS-34a- W	7/17/2015	grab Sample	17.1	ND	NR
CS-34-1 N.Trench Wall	7/21/2015	CS-34a- North Trench re-sample	130.0	ND	ND
CS-35	7/17/2015	five point composite sample	50.1	ND	NR
CS-36	7/17/2015	five point composite sample	1.2	ND	ND
CS-37	7/17/2015	five point composite sample	4.5	ND	ND
CS-38	7/17/2015	five point composite sample	256.0	ND	ND
CS-39	7/17/2015	five point composite sample	261.0	89.2	ND
CS-40	7/17/2015	five point composite sample	48.9	ND	ND
CS-41	7/17/2015	five point composite sample	50.4	ND	ND
Spoil Pile Area	7/22/2015	five point composite sample	5.6	76.9	NR
NR - Not Required (PID reading below 100 ppm)					
ND - analyte Not Detected at or above the reporting limit					



Analytical Report

Report Summary

Client: Western Refining Pipeline Co.
Chain Of Custody Number: 16174 & 16176
Samples Received: 7/2/2015 7:20:00AM
Job Number: 08012-0001
Work Order: P507001
Project Name/Location: Smith Lake

Entire Report Reviewed By:

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

Date: 7/8/15

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 Pipeline Co.
 PO Box 62558
 Phoenix AZ, 85082-2558

Project Name: Smith Lake
 Project Number: 08012-0001
 Project Manager: Kelly Robinson

Reported:
 08-Jul-15 16:16

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS #1	P507001-01A	Soil	07/01/15	07/02/15	Glass Jar, 4 oz.
CS #2	P507001-02A	Soil	07/01/15	07/02/15	Glass Jar, 4 oz.
CS #3	P507001-03A	Soil	07/01/15	07/02/15	Glass Jar, 4 oz.
CS #4	P507001-04A	Soil	07/01/15	07/02/15	Glass Jar, 4 oz.
CS #5	P507001-05A	Soil	07/01/15	07/02/15	Glass Jar, 4 oz.
CS #6	P507001-06A	Soil	07/01/15	07/02/15	Glass Jar, 4 oz.
CS #7	P507001-07A	Soil	07/01/15	07/02/15	Glass Jar, 4 oz.
CS #8	P507001-08A	Soil	07/01/15	07/02/15	Glass Jar, 4 oz.
CS #9	P507001-09A	Soil	07/01/15	07/02/15	Glass Jar, 4 oz.
CS #10	P507001-10A	Soil	07/01/15	07/02/15	Glass Jar, 4 oz.
CS #12	P507001-12A	Soil	07/01/15	07/02/15	Glass Jar, 4 oz.
CS #13	P507001-13A	Soil	07/01/15	07/02/15	Glass Jar, 4 oz.
CS #14	P507001-14A	Soil	07/01/15	07/02/15	Glass Jar, 4 oz.
CS #15	P507001-15A	Soil	07/01/15	07/02/15	Glass Jar, 4 oz.
CS #16	P507001-16A	Soil	07/01/15	07/02/15	Glass Jar, 4 oz.
CS #17	P507001-17A	Soil	07/01/15	07/02/15	Glass Jar, 4 oz.

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 laboratory@envirotech-inc.com



Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake Project Number: 08012-0001 Project Manager: Kelly Robinson	Reported: 08-Jul-15 16:16
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CS #1
P507001-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg	1	1527019	07/02/15	07/06/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.2	mg/kg	1	1527022	07/02/15	07/02/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		99.3 %		50-200	1527022	07/02/15	07/02/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		94.6 %		50-150	1527019	07/02/15	07/06/15	EPA 8015D	

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake Project Number: 08012-0001 Project Manager: Kelly Robinson	Reported: 08-Jul-15 16:16
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CS #2

P507001-02 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg	1	1527019	07/02/15	07/06/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.1	mg/kg	1	1527022	07/02/15	07/02/15	EPA 8015D	
Surrogate: <i>o</i> -Terphenyl		111 %		50-200	1527022	07/02/15	07/02/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		94.7 %		50-150	1527019	07/02/15	07/06/15	EPA 8015D	

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CS #3
P507001-03 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1	1527019	07/02/15	07/06/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.4	mg/kg	1	1527022	07/02/15	07/02/15	EPA 8015D	
Surrogate: <i>o</i> -Terphenyl		109 %		50-200	1527022	07/02/15	07/02/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		95.0 %		50-150	1527019	07/02/15	07/06/15	EPA 8015D	

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake Project Number: 08012-0001 Project Manager: Kelly Robinson	Reported: 08-Jul-15 16:16
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CS #4

P507001-04 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1	1527019	07/02/15	07/06/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	24.8	mg/kg	1	1527022	07/02/15	07/02/15	EPA 8015D	
Surrogate: <i>o</i> -Terphenyl		99.1 %		50-200	1527022	07/02/15	07/02/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		94.3 %		50-150	1527019	07/02/15	07/06/15	EPA 8015D	

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake Project Number: 08012-0001 Project Manager: Kelly Robinson	Reported: 08-Jul-15 16:16
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CS #5

P507001-05 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg	1	1527019	07/02/15	07/06/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1527022	07/02/15	07/02/15	EPA 8015D	
Surrogate: <i>o</i> -Terphenyl		105 %		50-200	1527022	07/02/15	07/02/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		94.8 %		50-150	1527019	07/02/15	07/06/15	EPA 8015D	

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake Project Number: 08012-0001 Project Manager: Kelly Robinson	Reported: 08-Jul-15 16:16
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CS #6

P507001-06 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1	1527019	07/02/15	07/06/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1527022	07/02/15	07/02/15	EPA 8015D	
Surrogate: <i>o</i> -Terphenyl		107 %		50-200	1527022	07/02/15	07/02/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		95.2 %		50-150	1527019	07/02/15	07/06/15	EPA 8015D	

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake Project Number: 08012-0001 Project Manager: Kelly Robinson	Reported: 08-Jul-15 16:16
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CS #7

P507001-07 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.97	mg/kg	1	1527019	07/02/15	07/06/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1527022	07/02/15	07/02/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		109 %		50-200	1527022	07/02/15	07/02/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		94.8 %		50-150	1527019	07/02/15	07/06/15	EPA 8015D	

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laboratory@envirotech-inc.com

Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake Project Number: 08012-0001 Project Manager: Kelly Robinson	Reported: 08-Jul-15 16:16
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CS #8
P507001-08 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg	1	1527019	07/02/15	07/06/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	24.9	mg/kg	1	1527022	07/02/15	07/02/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		101 %		50-200	1527022	07/02/15	07/02/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		94.0 %		50-150	1527019	07/02/15	07/06/15	EPA 8015D	

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake Project Number: 08012-0001 Project Manager: Kelly Robinson	Reported: 08-Jul-15 16:16
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CS #9

P507001-09 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1	1527019	07/02/15	07/06/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1527022	07/02/15	07/02/15	EPA 8015D	
Surrogate: <i>o</i> -Terphenyl		103 %		50-200	1527022	07/02/15	07/02/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		94.0 %		50-150	1527019	07/02/15	07/06/15	EPA 8015D	

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake Project Number: 08012-0001 Project Manager: Kelly Robinson	Reported: 08-Jul-15 16:16
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CS #10
P507001-10 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1	1527019	07/02/15	07/06/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	24.9	mg/kg	1	1527022	07/02/15	07/02/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		110 %		50-200	1527022	07/02/15	07/02/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		94.4 %		50-150	1527019	07/02/15	07/06/15	EPA 8015D	

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake Project Number: 08012-0001 Project Manager: Kelly Robinson	Reported: 08-Jul-15 16:16
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CS #12

P507001-12 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.97	mg/kg	1	1527019	07/02/15	07/06/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1527022	07/02/15	07/02/15	EPA 8015D	
Surrogate: <i>o</i> -Terphenyl		107 %		50-200	1527022	07/02/15	07/02/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		94.6 %		50-150	1527019	07/02/15	07/06/15	EPA 8015D	

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake Project Number: 08012-0001 Project Manager: Kelly Robinson	Reported: 08-Jul-15 16:16
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CS #13

P507001-13 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg	1	1527019	07/02/15	07/06/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1527022	07/02/15	07/02/15	EPA 8015D	
Surrogate: <i>o</i> -Terphenyl		98.3 %		50-200	1527022	07/02/15	07/02/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		94.1 %		50-150	1527019	07/02/15	07/06/15	EPA 8015D	

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CS #14
P507001-14 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1	1527019	07/02/15	07/06/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1527022	07/02/15	07/02/15	EPA 8015D	
Surrogate: <i>o</i> -Terphenyl		98.9 %		50-200	1527022	07/02/15	07/02/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		94.3 %		50-150	1527019	07/02/15	07/06/15	EPA 8015D	

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake Project Number: 08012-0001 Project Manager: Kelly Robinson	Reported: 08-Jul-15 16:16
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CS #15
P507001-15 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg	1	1527019	07/02/15	07/06/15	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1527022	07/02/15	07/02/15	EPA 8015D		
<i>Surrogate: o-Terphenyl</i>		97.2 %		50-200	1527022	07/02/15	07/02/15	EPA 8015D		
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		93.8 %		50-150	1527019	07/02/15	07/06/15	EPA 8015D		

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CS #16
P507001-16 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.97	mg/kg	1	1527019	07/02/15	07/06/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1527022	07/02/15	07/03/15	EPA 8015D	
Surrogate: <i>o</i> -Terphenyl		87.6 %		50-200	1527022	07/02/15	07/03/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		94.3 %		50-150	1527019	07/02/15	07/06/15	EPA 8015D	

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CS #17
P507001-17 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	10.0	mg/kg	1	1527019	07/02/15	07/06/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	24.9	mg/kg	1	1527022	07/02/15	07/03/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		86.4 %		50-200	1527022	07/02/15	07/03/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		94.7 %		50-150	1527019	07/02/15	07/06/15	EPA 8015D	

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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 1527019 - Purge and Trap EPA 5030A										
Blank (1527019-BLK1)				Prepared: 02-Jul-15 Analyzed: 07-Jul-15						
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.294		"	0.320		91.9	50-150			
LCS (1527019-BS1)				Prepared: 02-Jul-15 Analyzed: 07-Jul-15						
Gasoline Range Organics (C6-C10)	291	9.97	mg/kg	367		79.4	80-120			LCS1
Surrogate: 4-Bromochlorobenzene-FID	0.296		"	0.319		92.6	50-150			
Matrix Spike (1527019-MS2)				Source: P507001-01		Prepared: 02-Jul-15 Analyzed: 08-Jul-15				
Gasoline Range Organics (C6-C10)	413	9.98	mg/kg	367	ND	112	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.283		"	0.319		88.6	50-150			
Matrix Spike Dup (1527019-MSD2)				Source: P507001-01		Prepared: 02-Jul-15 Analyzed: 08-Jul-15				
Gasoline Range Organics (C6-C10)	297	10.0	mg/kg	368	ND	80.8	75-125	32.6	15	D1
Surrogate: 4-Bromochlorobenzene-FID	0.285		"	0.320		89.3	50-150			

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake Project Number: 08012-0001 Project Manager: Kelly Robinson	Reported: 08-Jul-15 16:16
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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
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Batch 1527022 - DRO Extraction EPA 3550M

Blank (1527022-BLK1)										
										Prepared & Analyzed: 02-Jul-15
Diesel Range Organics (C10-C28)	ND	25.3	mg/kg							
Surrogate: <i>o</i> -Terphenyl	76.9		"	40.5		190	50-200			
LCS (1527022-BS1)										
										Prepared & Analyzed: 02-Jul-15
Diesel Range Organics (C10-C28)	583	25.3	mg/kg	506		115	38-132			
Surrogate: <i>o</i> -Terphenyl	54.7		"	40.4		135	50-200			
Matrix Spike (1527022-MS1)										
										Source: P507001-01
										Prepared & Analyzed: 02-Jul-15
Diesel Range Organics (C10-C28)	550	25.2	mg/kg	505	ND	109	38-132			
Surrogate: <i>o</i> -Terphenyl	47.7		"	40.4		118	50-200			
Matrix Spike Dup (1527022-MSD1)										
										Source: P507001-01
										Prepared & Analyzed: 02-Jul-15
Diesel Range Organics (C10-C28)	542	25.3	mg/kg	506	ND	107	38-132	1.42	20	
Surrogate: <i>o</i> -Terphenyl	48.8		"	40.5		121	50-200			

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake Project Number: 08012-0001 Project Manager: Kelly Robinson	Reported: 08-Jul-15 16:16
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Notes and Definitions

- LCS1 The Laboratory Control Sample recovery is outside of quality control limits.
- D1 Duplicates or Matrix Spike Duplicates Relative Percent Difference 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

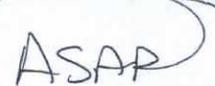
16174

Client: WESTERN REFINING		Project Name / Location: SMITH LAKE			ANALYSIS / PARAMETERS														
Email results to: KELLY.ROBINSON@WNR.COM		Sampler Name: KELLY ROBINSON			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	FCl	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact			
Client Phone No.: SOS-632-4166		Client No.: 08012-0001																	
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	FCl	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact
					HNO ₃	HCl													
CS # 1	7-1-15	9:00	P507001-01	(1) 4oz				X										Y	Y
CS # 2	7-1-15	9:15	-02	(1) 4oz				X										Y	Y
CS # 3	7-1-15	9:26	-03	(1) 4oz				X										Y	Y
CS # 4	7-1-15	9:46	-04	(1) 4oz				X										Y	Y
CS # 5	7-1-15	10:14	-05	(1) 4oz				X										Y	Y
CS # 6	7-1-15	10:25	-06	(1) 4oz				X										Y	Y
CS # 7	7-1-15	10:34	-07	(1) 4oz				X										Y	Y
CS # 8	7-1-15	10:41	-08	(1) 4oz				X										Y	Y
CS # 9	7-1-15	10:44	-09	(1) 4oz				X										Y	Y
CS # 10	7-1-15	10:50	-10	(1) 4oz				X										Y	Y
Relinquished by: (Signature) <i>Kelly Robinson</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time								
				7-2-15	5:00					7/2	5:00								
Relinquished by: (Signature) <i>[Signature]</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time								
				7/2/15	7:20					7/2/15	7:20								
Sample Matrix																			
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																			
<input checked="" type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																			
 ASAP * 2.1 2.3 3.1 2.5 1 of 2																			

CHAIN OF CUSTODY RECORD

16176

Client: WESTERN READING		Project Name / Location: SMITH LAKE			ANALYSIS / PARAMETERS															
Email results to: KELLY.ROBINSON@WNR.COM		Sampler Name: KELLY ROBINSON			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.: 505-632-4166		Client No.: 08012-0001																		
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative		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
					HNO ₃	HCl														
CS# 11	7-1-15	1300	P507001-11	(1) 4oz			X												Y	Y
CS# 12	7-1-15	1445	-12	(1) 4oz			X												Y	Y
CS# 13	7-1-15	1500	-13	(1) 4oz			X												Y	Y
CS# 14	7-1-15	1530	-14	(1) 4oz			X												Y	Y
CS# 15	7-1-15	1545	-15	(1) 4oz			X												Y	Y
CS# 16	7-1-15	1635	-16	(1) 4oz			X												Y	Y
CS# 17	7-1-15	1650	-17	(1) 4oz			X												Y	Y

Relinquished by: (Signature) <i>Kelly Robinson</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time									
				7-2-15	5:00					7/2/15	5:00									
Relinquished by: (Signature) <i>[Signature]</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time									
				7/2/15	7:20					7/2/15	7:20									
Sample Matrix																				
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																				
<input checked="" type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																				
																				
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CHAIN OF CUSTODY RECORD

16174

Client: WESTERN REFINING		Project Name / Location: SMITH LAKE			ANALYSIS / PARAMETERS															
Email results to: KELLY.ROBINSON@WNR.COM		Sampler Name: KELLY ROBINSON			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	MIO	Sample Cool	Sample Intact			
Client Phone No.: 505-632-4166		Client No.: 08012-0001																		
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	MIO	Sample Cool	Sample Intact
					HNO ₃	HCl														
CS # 1	7-1-15	9:00	P507001-01	(1) 4oz				X										X		
CS # 2	7-1-15	9:15	-02	(1) 4oz				X										X		
CS # 3	7-1-15	9:26	-03	(1) 4oz				X										X		
CS # 4	7-1-15	9:46	-04	(1) 4oz				X										X		
CS # 5	7-1-15	10:14	-05	(1) 4oz				X										X		
CS # 6	7-1-15	10:25	-06	(1) 4oz				X										X		
CS # 7	7-1-15	10:34	-07	(1) 4oz				X										X		
CS # 8	7-1-15	10:41	-08	(1) 4oz				X										X		
CS # 9	7-1-15	10:44	-09	(1) 4oz				X										X		
CS # 10	7-1-15	10:50	-10	(1) 4oz				X										X		
Relinquished by: (Signature) <i>Kelly Robinson</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time									
				7-2-15	5:00					7/2	5:00									
Relinquished by: (Signature) <i>[Signature]</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time									
				7/2/15	7:20					7/2/15	7:20									
Sample Matrix Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																				
<input checked="" type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.				 ASAP *								21 2.3 3.1 (25) 1 of 2								
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CHAIN OF CUSTODY RECORD

16176

Client: WESTERN READING		Project Name / Location: SMITH LAKE			ANALYSIS / PARAMETERS																	
Email results to: KELLY.ROBINSON@WNR.COM		Sampler Name: KELLY ROBINSON			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	FCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	MPO fish	Added per path 7/2/15 R	COWD per path 7/2/15 R	Sample Cool	Sample Intact			
Client Phone No.: 505-632-4166		Client No.: 08012-0001																				
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	FCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	MPO fish	Added per path 7/2/15 R	COWD per path 7/2/15 R	Sample Cool	Sample Intact	
					HNO ₃	HCl																
CS#11	7-1-15	1300	P507001-#1	(1) 4oz			X										X					
CS#12	7-1-15	1445	-12	(1) 4oz			X										X					
CS#13	7-1-15	1500	-13	(1) 4oz			X										X					
CS#14	7-1-15	1530	-14	(1) 4oz			X										X					
CS#15	7-1-15	1545	-15	(1) 4oz			X										X					
CS#16	7-1-15	1635	-16	(1) 4oz			X										X					
CS#17	7-1-15	1650	-17	(1) 4oz			X										X					
Relinquished by: (Signature) Kelly Robinson				Date	Time	Received by: (Signature) [Signature]				Date	Time											
				7-2-15	5:00					7/2/15	5:00											
Relinquished by: (Signature) [Signature]				Date	Time	Received by: (Signature) [Signature]				Date	Time											
				7/2/15	7:20					7/2/15	7:20											
Sample Matrix																						
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																						
<input checked="" type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																						
 ASAP																						
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CHAIN OF CUSTODY RECORD

16176

Client: WESTERN READING		Project Name / Location: SMITH LAKE			ANALYSIS / PARAMETERS														
Email results to: KELLY.ROBINSON@WNR.COM		Sampler Name: KELLY ROBINSON			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	PCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	MPO Fish	Sample Cool	Sample Intact		
Client Phone No.: 505-632-4166		Client No.: 08012-0001																	
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	PCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	MPO Fish	Sample Cool	Sample Intact
					HNO ₃	HCl													
CS # 11	7-1-15	1300	P507001-11	(1) 4oz			X										X		Y
CS # 12	7-1-15	1445	-12	(1) 4oz			X										X		Y
CS # 13	7-1-15	1500	-13	(1) 4oz			X										X		Y
CS # 14	7-1-15	1530	-14	(1) 4oz			X										X		Y
CS # 15	7-1-15	1545	-15	(1) 4oz			X										X		Y
CS # 16	7-1-15	1635	-16	(1) 4oz			X										X		Y
CS # 17	7-1-15	1650	-17	(1) 4oz			X										X		Y
Relinquished by: (Signature) <i>Kelly Robinson</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time								
				7-2-15	5:00					7/2/15	5:00								
Relinquished by: (Signature) <i>[Signature]</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time								
				7/2/15	7:20					7/2/15	7:20								
Sample Matrix Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																			
<input checked="" type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.				 ASAP															



Analytical Report

Report Summary

Client: Western Refining Pipeline Co.
Chain Of Custody Number: 16180
Samples Received: 7/6/2015 8:20:00AM
Job Number: 96012-0115
Work Order: P507007
Project Name/Location: Smith Lake

Entire Report Reviewed By:

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

Date: 7/8/15

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 Pipeline Co.
PO Box 62558
Phoenix AZ, 85082-2558

Project Name: Smith Lake
Project Number: 96012-0115
Project Manager: Kelly Robinson

Reported:
08-Jul-15 16:30

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS #18	P507007-01A	Soil	07/02/15	07/06/15	Glass Jar, 4 oz.
CS #19	P507007-02A	Soil	07/02/15	07/06/15	Glass Jar, 4 oz.
CS #20	P507007-03A	Soil	07/02/15	07/06/15	Glass Jar, 4 oz.
CS #21	P507007-04A	Soil	07/02/15	07/06/15	Glass Jar, 4 oz.
CS #22	P507007-05A	Soil	07/02/15	07/06/15	Glass Jar, 4 oz.
CS #23	P507007-06A	Soil	07/02/15	07/06/15	Glass Jar, 4 oz.
CS #11	P507007-07A	Soil	07/02/15	07/06/15	Glass Jar, 4 oz.

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 08-Jul-15 16:30
---	---	------------------------------

CS #18
P507007-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	9.80	mg/kg	1	1528002	07/06/15	07/07/15	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	25.8	mg/kg	1	1528001	07/06/15	07/07/15	EPA 8015D		
Surrogate: <i>o</i> -Terphenyl		94.3 %		50-200	1528001	07/06/15	07/07/15	EPA 8015D		
Surrogate: 4-Bromochlorobenzene-FID		93.1 %		50-150	1528002	07/06/15	07/07/15	EPA 8015D		

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 08-Jul-15 16:30
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CS #19
P507007-02 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	10.4	mg/kg	1	1528002	07/06/15	07/07/15	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	25.5	mg/kg	1	1528001	07/06/15	07/07/15	EPA 8015D		
Surrogate: <i>o</i> -Terphenyl		98.6 %		50-200	1528001	07/06/15	07/07/15	EPA 8015D		
Surrogate: 4-Bromochlorobenzene-FID		93.7 %		50-150	1528002	07/06/15	07/07/15	EPA 8015D		

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 08-Jul-15 16:30
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CS #20

P507007-03 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.62	mg/kg	1	1528002	07/06/15	07/07/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.2	mg/kg	1	1528001	07/06/15	07/07/15	EPA 8015D	
Surrogate: <i>o</i> -Terphenyl		100 %		50-200	1528001	07/06/15	07/07/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		92.8 %		50-150	1528002	07/06/15	07/07/15	EPA 8015D	

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 08-Jul-15 16:30
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CS #21

P507007-04 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	10.1	mg/kg	1	1528002	07/06/15	07/07/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.5	mg/kg	1	1528001	07/06/15	07/07/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		95.4 %		50-200	1528001	07/06/15	07/07/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		93.7 %		50-150	1528002	07/06/15	07/07/15	EPA 8015D	

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 08-Jul-15 16:30
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CS #22

P507007-05 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1	1528002	07/06/15	07/07/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	23.6	mg/kg	0.9	1528001	07/06/15	07/07/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		111 %		50-200	1528001	07/06/15	07/07/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		92.6 %		50-150	1528002	07/06/15	07/07/15	EPA 8015D	

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 08-Jul-15 16:30
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CS #23

P507007-06 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	10.8	mg/kg	1	1528002	07/06/15	07/07/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	35.0	mg/kg	1	1528001	07/06/15	07/07/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		97.2 %		50-200	1528001	07/06/15	07/07/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		93.2 %		50-150	1528002	07/06/15	07/07/15	EPA 8015D	

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 08-Jul-15 16:30
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CS #11

P507007-07 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg	1	1528002	07/06/15	07/07/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	32.8	mg/kg	1	1528001	07/06/15	07/07/15	EPA 8015D	
Surrogate: <i>o</i> -Terphenyl		97.8 %		50-200	1528001	07/06/15	07/07/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		93.5 %		50-150	1528002	07/06/15	07/07/15	EPA 8015D	

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 08-Jul-15 16:30
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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
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Batch 1528001 - DRO Extraction EPA 3550M

Blank (1528001-BLK1)				Prepared: 06-Jul-15 Analyzed: 07-Jul-15						
Diesel Range Organics (C10-C28)	ND	23.6	mg/kg							
Surrogate: <i>o</i> -Terphenyl	29.2		"	37.8		77.3	50-200			
LCS (1528001-BS1)				Prepared: 06-Jul-15 Analyzed: 07-Jul-15						
Diesel Range Organics (C10-C28)	348	24.2	mg/kg	484		71.9	38-132			
Surrogate: <i>o</i> -Terphenyl	31.3		"	38.7		80.9	50-200			
Matrix Spike (1528001-MS1)				Source: P506093-01		Prepared: 06-Jul-15 Analyzed: 07-Jul-15				
Diesel Range Organics (C10-C28)	424	24.2	mg/kg	483	ND	87.8	38-132			
Surrogate: <i>o</i> -Terphenyl	39.7		"	38.7		103	50-200			
Matrix Spike Dup (1528001-MSD1)				Source: P506093-01		Prepared: 06-Jul-15 Analyzed: 07-Jul-15				
Diesel Range Organics (C10-C28)	173	23.2	mg/kg	162	ND	107	38-132	84.0	20	D1
Surrogate: <i>o</i> -Terphenyl	38.2		"	37.1		103	50-200			

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 08-Jul-15 16:30
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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 1528002 - Purge and Trap EPA 5030A										
Blank (1528002-BLK1)					Prepared: 06-Jul-15 Analyzed: 07-Jul-15					
Gasoline Range Organics (C6-C10)	ND	9.17	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.266		"	0.293		90.5	50-150			
LCS (1528002-BS1)					Prepared: 06-Jul-15 Analyzed: 07-Jul-15					
Gasoline Range Organics (C6-C10)	390	9.84	mg/kg	362		108	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.289		"	0.315		91.7	50-150			
Matrix Spike (1528002-MS1)					Source: P506093-01 Prepared: 06-Jul-15 Analyzed: 07-Jul-15					
Gasoline Range Organics (C6-C10)	443	10.3	mg/kg	378	41.8	106	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.305		"	0.328		92.9	50-150			
Matrix Spike Dup (1528002-MSD1)					Source: P506093-01 Prepared: 06-Jul-15 Analyzed: 07-Jul-15					
Gasoline Range Organics (C6-C10)	407	9.52	mg/kg	350	41.8	104	75-125	8.39	15	
Surrogate: 4-Bromochlorobenzene-FID	0.283		"	0.305		92.8	50-150			

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Western Refining Pipeline Co.
PO Box 62558
Phoenix AZ, 85082-2558

Project Name: Smith Lake
Project Number: 96012-0115
Project Manager: Kelly Robinson

Reported:
08-Jul-15 16:30

Notes and Definitions

D1 Duplicates or Matrix Spike Duplicates Relative Percent Difference 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

16180

Client: WESTERN REFINING		Project Name / Location: SMITH LAKE - MP33			ANALYSIS / PARAMETERS															
Email results to: Kelly.Robinson@wnr.com		Sampler Name: Kelly Robinson			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.: (505) 801-5616		Client No.: 96012-0115																		
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No. / Volume of Containers	Preservative		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		
					HNO ₃	HCl														
CS # 18	7/2/15	14:00	P507007-01	4oz jar			X											✓	✓	
CS # 19	7/2/15	14:15	-02				X													
CS # 20	7/2/15	14:25	-03					X												
CS # 21	7/2/15	14:35	-04					X												
CS # 22	7/2/15	14:40	-05					X												
CS # 23	7/2/15	14:50	-06					X												
CS # 11	7/1/15	13:00	-07		I			X												
<i>[Handwritten scribbles]</i>																				
Relinquished by: (Signature) <i>[Signature]</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time									
				7/6/15	8:20					7-6-15	0820									
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.																				
5.5 5.6 5.0			(5.3)							RUSH / ASAP CALL WITH VERBAL										
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Analytical Report

Report Summary

Client: Western Refining Pipeline Co.
Chain Of Custody Number: 14093
Samples Received: 7/10/2015 7:41:00AM
Job Number: 96012-0115
Work Order: P507017
Project Name/Location: Smith Lake- MP-53

Entire Report Reviewed By:

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

Date: 7/13/15

Tim Cain, Laboratory Manager

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Western Refining Pipeline Co.
PO Box 62558
Phoenix AZ, 85082-2558

Project Name: Smith Lake- MP-53
Project Number: 96012-0115
Project Manager: Kelly Robinson

Reported:
13-Jul-15 09:55

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS24	P507017-01A	Soil	07/09/15	07/10/15	Glass Jar, 4 oz.

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake- MP-53 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 13-Jul-15 09:55
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CS24

P507017-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg	1	1528031	07/10/15	07/10/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1528032	07/10/15	07/10/15	EPA 8015D	
Surrogate: <i>o</i> -Terphenyl		112 %		50-200	1528032	07/10/15	07/10/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		88.3 %		50-150	1528031	07/10/15	07/10/15	EPA 8015D	

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake- MP-53 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 13-Jul-15 09:55
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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
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Batch 1528031 - Purge and Trap EPA 5030A

Blank (1528031-BLK1)										
										Prepared & Analyzed: 10-Jul-15
Gasoline Range Organics (C6-C10)	ND	9.95	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.275		"	0.318		86.4	50-150			
LCS (1528031-BS1)										
										Prepared & Analyzed: 10-Jul-15
Gasoline Range Organics (C6-C10)	356	9.94	mg/kg	366		97.3	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.279		"	0.318		87.6	50-150			
Matrix Spike (1528031-MS1)										
										Source: P507017-01
										Prepared & Analyzed: 10-Jul-15
Gasoline Range Organics (C6-C10)	391	9.97	mg/kg	367	ND	106	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.276		"	0.319		86.6	50-150			
Matrix Spike Dup (1528031-MSD1)										
										Source: P507017-01
										Prepared & Analyzed: 10-Jul-15
Gasoline Range Organics (C6-C10)	389	9.98	mg/kg	367	ND	106	75-125	0.286	15	
Surrogate: 4-Bromochlorobenzene-FID	0.277		"	0.319		86.7	50-150			

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake- MP-53 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 13-Jul-15 09:55
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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 1528032 - DRO Extraction EPA 3550M										
Blank (1528032-BLK1)				Prepared & Analyzed: 10-Jul-15						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: o-Terphenyl	43.5		"	39.9		109	50-200			
LCS (1528032-BS1)				Prepared & Analyzed: 10-Jul-15						
Diesel Range Organics (C10-C28)	490	24.9	mg/kg	499		98.4	38-132			
Surrogate: o-Terphenyl	43.4		"	39.9		109	50-200			
Matrix Spike (1528032-MS1)				Source: P507017-01		Prepared & Analyzed: 10-Jul-15				
Diesel Range Organics (C10-C28)	606	29.9	mg/kg	499	ND	121	38-132			
Surrogate: o-Terphenyl	54.3		"	39.9		136	50-200			
Matrix Spike Dup (1528032-MSD1)				Source: P507017-01		Prepared & Analyzed: 10-Jul-15				
Diesel Range Organics (C10-C28)	597	29.9	mg/kg	499	ND	120	38-132	1.51	20	
Surrogate: o-Terphenyl	50.4		"	39.9		126	50-200			

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake- MP-53 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 13-Jul-15 09:55
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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

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CHAIN OF CUSTODY RECORD

14093

Client: Western Refining		Project Name / Location: Smith Lake-MP-53			ANALYSIS / PARAMETERS													
Email results to: Kelly & Matt		Sampler Name: Matt Krakow			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.: 505-632-4169		Client No.: 96012-0115																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative		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
					HgCl ₂	HCl												
CS24	7/9/15	4:25pm	P507017-01	1 4oz Jar			X										Y	Y
Relinquished by: (Signature) <i>[Signature]</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time							
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				 envirotech 8.0 Analytical Laboratory														
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Analytical Report

Report Summary

Client: Western Refining Pipeline Co.
Chain Of Custody Number: 14094
Samples Received: 7/10/2015 7:40:00AM
Job Number: 96012-0115
Work Order: P507018
Project Name/Location: Smith Lake- MP-53

Entire Report Reviewed By:

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

Date: 7/13/15

Tim Cain, Laboratory Manager

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake- MP-53 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 13-Jul-15 09:52
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-25	P507018-01A	Soil	07/09/15	07/10/15	Glass Jar, 4 oz.

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake- MP-53 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 13-Jul-15 09:52
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CS-25

P507018-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg	1	1528031	07/10/15	07/10/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	34.9	mg/kg	1	1528032	07/10/15	07/10/15	EPA 8015D	
Surrogate: <i>o</i> -Terphenyl		110 %		50-200	1528032	07/10/15	07/10/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		87.2 %		50-150	1528031	07/10/15	07/10/15	EPA 8015D	

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake- MP-53 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 13-Jul-15 09:52
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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
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Batch 1528031 - Purge and Trap EPA 5030A

Blank (1528031-BLK1)										
										Prepared & Analyzed: 10-Jul-15
Gasoline Range Organics (C6-C10)	ND	9.95	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.275		"	0.318		86.4	50-150			
LCS (1528031-BS1)										
										Prepared & Analyzed: 10-Jul-15
Gasoline Range Organics (C6-C10)	356	9.94	mg/kg	366		97.3	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.279		"	0.318		87.6	50-150			
Matrix Spike (1528031-MS1)										
		Source: P507017-01			Prepared & Analyzed: 10-Jul-15					
Gasoline Range Organics (C6-C10)	391	9.97	mg/kg	367	ND	106	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.276		"	0.319		86.6	50-150			
Matrix Spike Dup (1528031-MSD1)										
		Source: P507017-01			Prepared & Analyzed: 10-Jul-15					
Gasoline Range Organics (C6-C10)	389	9.98	mg/kg	367	ND	106	75-125	0.286	15	
Surrogate: 4-Bromochlorobenzene-FID	0.277		"	0.319		86.7	50-150			

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Western Refining Pipeline Co. PO Box 62558 Phoenix AZ, 85082-2558	Project Name: Smith Lake- MP-53 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 13-Jul-15 09:52
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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 1528032 - DRO Extraction EPA 3550M										
Blank (1528032-BLK1)				Prepared & Analyzed: 10-Jul-15						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: <i>o</i> -Terphenyl	43.5		"	39.9		109	50-200			
LCS (1528032-BS1)				Prepared & Analyzed: 10-Jul-15						
Diesel Range Organics (C10-C28)	490	24.9	mg/kg	499		98.4	38-132			
Surrogate: <i>o</i> -Terphenyl	43.4		"	39.9		109	50-200			
Matrix Spike (1528032-MS1)				Source: P507017-01		Prepared & Analyzed: 10-Jul-15				
Diesel Range Organics (C10-C28)	606	29.9	mg/kg	499	ND	121	38-132			
Surrogate: <i>o</i> -Terphenyl	54.3		"	39.9		136	50-200			
Matrix Spike Dup (1528032-MSD1)				Source: P507017-01		Prepared & Analyzed: 10-Jul-15				
Diesel Range Organics (C10-C28)	597	29.9	mg/kg	499	ND	120	38-132	1.51	20	
Surrogate: <i>o</i> -Terphenyl	50.4		"	39.9		126	50-200			

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Western Refining Pipeline Co.
PO Box 62558
Phoenix AZ, 85082-2558

Project Name: Smith Lake- MP-53
Project Number: 96012-0115
Project Manager: Kelly Robinson

Reported:
13-Jul-15 09:52

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

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CHAIN OF CUSTODY RECORD

14094

Client: <i>Western Refining</i>		Project Name / Location: <i>Smith Lake - MP-53</i>			ANALYSIS / PARAMETERS														
Email results to: <i>Kelly & Matt</i>		Sampler Name: <i>Matt Krakow</i>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	FCl	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact			
Client Phone No.: <i>505-632-4169</i>		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)	RCRA 8 Metals	Cation / Anion	FCl	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact	
					HgCl ₂	HCl													
<i>CS-25</i>	<i>7/9/15</i>	<i>4:20pm</i>	<i>P507018-01</i>	<i>1-4oz Jar</i>			X											YY	
Relinquished by: (Signature) <i>[Signature]</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time								
				<i>7/10/15</i>	<i>7:40</i>					<i>7/10/15</i>	<i>7:40</i>								
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. <i>Rush</i>				 envirotech <i>6.7</i> Analytical Laboratory															



Analytical Report

Report Summary

Client: Western Refining Southwest, Inc.
Chain Of Custody Number: 14095
Samples Received: 7/14/2015 11:03:00AM
Job Number: 96012-0115
Work Order: P507021
Project Name/Location: Smith Lake- MP 33

Entire Report Reviewed By:

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

Date: 7/15/15

Tim Cain, Laboratory Manager

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 15-Jul-15 09:54
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-26	P507021-01A	Soil	07/13/15	07/14/15	Glass Jar, 4 oz.

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 15-Jul-15 09:54
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CS-26

P507021-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	10.0	mg/kg	1	1529012	07/14/15	07/14/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	35.0	mg/kg	1	1529013	07/14/15	07/14/15	EPA 8015D	
Surrogate: <i>o</i> -Terphenyl		109 %		50-200	1529013	07/14/15	07/14/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		85.7 %		50-150	1529012	07/14/15	07/14/15	EPA 8015D	

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 15-Jul-15 09:54
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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
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Batch 1529012 - Purge and Trap EPA 5030A

Blank (1529012-BLK1)										
										Prepared & Analyzed: 14-Jul-15
Gasoline Range Organics (C6-C10)	ND	10.0	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.272		"	0.320		84.9	50-150			
LCS (1529012-BS1)										
										Prepared & Analyzed: 14-Jul-15
Gasoline Range Organics (C6-C10)	385	10.0	mg/kg	368		105	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.272		"	0.320		85.0	50-150			
Matrix Spike (1529012-MS1)										
										Prepared & Analyzed: 14-Jul-15
		Source: P507021-01								
Gasoline Range Organics (C6-C10)	393	10.0	mg/kg	368	ND	107	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.272		"	0.320		85.1	50-150			
Matrix Spike Dup (1529012-MSD1)										
										Prepared & Analyzed: 14-Jul-15
		Source: P507021-01								
Gasoline Range Organics (C6-C10)	304	10.0	mg/kg	368	ND	82.6	75-125	25.6	15	D1
Surrogate: 4-Bromochlorobenzene-FID	0.273		"	0.320		85.4	50-150			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 15-Jul-15 09:54
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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 1529013 - DRO Extraction EPA 3550M										
Blank (1529013-BLK1)				Prepared & Analyzed: 14-Jul-15						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: <i>o</i> -Terphenyl	47.7		"	40.0		119	50-200			
LCS (1529013-BS1)				Prepared & Analyzed: 14-Jul-15						
Diesel Range Organics (C10-C28)	542	25.0	mg/kg	500		108	38-132			
Surrogate: <i>o</i> -Terphenyl	49.9		"	40.0		125	50-200			
Matrix Spike (1529013-MS1)				Source: P507021-01		Prepared & Analyzed: 14-Jul-15				
Diesel Range Organics (C10-C28)	545	35.0	mg/kg	500	ND	109	38-132			
Surrogate: <i>o</i> -Terphenyl	46.5		"	40.0		116	50-200			
Matrix Spike Dup (1529013-MSD1)				Source: P507021-01		Prepared & Analyzed: 14-Jul-15				
Diesel Range Organics (C10-C28)	533	35.0	mg/kg	500	ND	107	38-132	2.25	20	
Surrogate: <i>o</i> -Terphenyl	48.0		"	40.0		120	50-200			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 15-Jul-15 09:54
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Notes and Definitions

- D1 Duplicates or Matrix Spike Duplicates Relative Percent Difference 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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Analytical Report

Report Summary

Client: Western Refining Southwest, Inc.
Chain Of Custody Number: 16168
Samples Received: 7/15/2015 7:23:00AM
Job Number: 96012-0115
Work Order: P507027
Project Name/Location: Smith Lake- MP 33

Entire Report Reviewed By:

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

Date: 7/16/15

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: Smith Lake- MP 33
Project Number: 96012-0115
Project Manager: Kelly Robinson

Reported:
16-Jul-15 11:59

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS29	P507027-01A	Soil	07/14/15	07/15/15	Glass Jar, 4 oz.
	P507027-01B	Soil	07/14/15	07/15/15	Glass Jar, 4 oz.

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

Project Name: Smith Lake- MP 33
 Project Number: 96012-0115
 Project Manager: Kelly Robinson

Reported:
 16-Jul-15 11:59

CS29
P507027-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1529012	07/15/15	07/15/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1529012	07/15/15	07/15/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1529012	07/15/15	07/15/15	EPA 8021B	
p,m-Xylene	0.35	0.20	mg/kg	1	1529012	07/15/15	07/15/15	EPA 8021B	
o-Xylene	0.12	0.10	mg/kg	1	1529012	07/15/15	07/15/15	EPA 8021B	
Total Xylenes	0.47	0.10	mg/kg	1	1529012	07/15/15	07/15/15	EPA 8021B	
Total BTEX	0.47	0.10	mg/kg	1	1529012	07/15/15	07/15/15	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.1 %		50-150	1529012	07/15/15	07/15/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	31.9	9.98	mg/kg	1	1529012	07/15/15	07/15/15	EPA 8015D	
Diesel Range Organics (C10-C28)	46.0	30.0	mg/kg	1	1529013	07/15/15	07/15/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		123 %		50-200	1529013	07/15/15	07/15/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		90.9 %		50-150	1529012	07/15/15	07/15/15	EPA 8015D	

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

Project Name: Smith Lake- MP 33
Project Number: 96012-0115
Project Manager: Kelly Robinson

Reported:
16-Jul-15 11:59

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
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Batch 1529012 - Purge and Trap EPA 5030A

Blank (1529012-BLK1)

Prepared & Analyzed: 14-Jul-15

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	"							
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	0.289		"	0.320		90.3	50-150			

LCS (1529012-BS1)

Prepared & Analyzed: 14-Jul-15

Benzene	20.5	0.10	mg/kg	20.0		102	75-125			
Toluene	21.2	0.10	"	20.0		106	70-125			
Ethylbenzene	21.3	0.10	"	20.0		107	75-125			
p,m-Xylene	42.5	0.20	"	40.0		106	80-125			
o-Xylene	20.7	0.10	"	20.0		104	75-125			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	0.290		"	0.320		90.6	50-150			

Matrix Spike (1529012-MS1)

Source: P507021-01

Prepared & Analyzed: 14-Jul-15

Benzene	20.8	0.10	mg/kg	20.0	ND	104	75-125			
Toluene	21.6	0.10	"	20.0	ND	108	70-125			
Ethylbenzene	21.8	0.10	"	20.0	ND	109	75-125			
p,m-Xylene	43.4	0.20	"	40.0	ND	108	80-125			
o-Xylene	21.1	0.10	"	20.0	ND	106	75-125			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	0.291		"	0.320		90.8	50-150			

Matrix Spike Dup (1529012-MSD1)

Source: P507021-01

Prepared & Analyzed: 14-Jul-15

Benzene	16.1	0.10	mg/kg	20.0	ND	80.5	75-125	25.7	15	D1
Toluene	16.5	0.10	"	20.0	ND	82.7	70-125	26.5	15	D1
Ethylbenzene	16.6	0.10	"	20.0	ND	82.9	75-125	27.0	15	D1
p,m-Xylene	33.2	0.20	"	40.0	ND	83.0	80-125	26.6	15	D1
o-Xylene	16.4	0.10	"	20.0	ND	82.1	75-125	25.2	15	D1
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	0.289		"	0.320		90.4	50-150			

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

Project Name: Smith Lake- MP 33
 Project Number: 96012-0115
 Project Manager: Kelly Robinson

Reported:
 16-Jul-15 11:59

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 1529012 - Purge and Trap EPA 5030A										
Blank (1529012-BLK1)				Prepared & Analyzed: 14-Jul-15						
Gasoline Range Organics (C6-C10)	ND	10.0	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.272		"	0.320		84.9	50-150			
LCS (1529012-BS1)				Prepared & Analyzed: 14-Jul-15						
Gasoline Range Organics (C6-C10)	385	10.0	mg/kg	368		105	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.272		"	0.320		85.0	50-150			
Matrix Spike (1529012-MS1)				Source: P507021-01		Prepared & Analyzed: 14-Jul-15				
Gasoline Range Organics (C6-C10)	393	10.0	mg/kg	368	ND	107	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.272		"	0.320		85.1	50-150			
Matrix Spike Dup (1529012-MSD1)				Source: P507021-01		Prepared & Analyzed: 14-Jul-15				
Gasoline Range Organics (C6-C10)	304	10.0	mg/kg	368	ND	82.6	75-125	25.6	15	D1
Surrogate: 4-Bromochlorobenzene-FID	0.273		"	0.320		85.4	50-150			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 16-Jul-15 11:59
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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
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Batch 1529013 - DRO Extraction EPA 3550M

Blank (1529013-BLK1)				Prepared & Analyzed: 14-Jul-15						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: <i>o</i> -Terphenyl	47.7		"	40.0		119	50-200			
LCS (1529013-BS1)				Prepared & Analyzed: 14-Jul-15						
Diesel Range Organics (C10-C28)	542	25.0	mg/kg	500		108	38-132			
Surrogate: <i>o</i> -Terphenyl	49.9		"	40.0		125	50-200			
Matrix Spike (1529013-MS1)				Source: P507021-01		Prepared & Analyzed: 14-Jul-15				
Diesel Range Organics (C10-C28)	545	35.0	mg/kg	500	ND	109	38-132			
Surrogate: <i>o</i> -Terphenyl	46.5		"	40.0		116	50-200			
Matrix Spike Dup (1529013-MSD1)				Source: P507021-01		Prepared & Analyzed: 14-Jul-15				
Diesel Range Organics (C10-C28)	533	35.0	mg/kg	500	ND	107	38-132	2.25	20	
Surrogate: <i>o</i> -Terphenyl	48.0		"	40.0		120	50-200			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 16-Jul-15 11:59
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Notes and Definitions

- D1 Duplicates or Matrix Spike Duplicates Relative Percent Difference 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

16168

Client: WESTERN REFINING		Project Name / Location: SMITH LAKE - MP33			ANALYSIS / PARAMETERS														
Email results to: Kelly.Robinson@WNR.com		Sampler Name: MATT KRAKOW			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	PCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact			
Client Phone No.: 505-632-4166		Client No.: 96012-0115																	
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	PCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact	
					HNO ₃	HCl													
C329	7/14/15	17:00	P507027-01	2 8oz Jars			X	X										<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Relinquished by: (Signature) <i>Kelly Robinson</i>				Date	Time	Received by: (Signature) <i>Gene Z...</i>				Date	Time								
				7/15/15	7:23					7/15/15	7:23								
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.																			
PO# (2613182) 4.7 5.0 RUSH (4.9)																			
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Analytical Report

Report Summary

Client: Western Refining Southwest, Inc.
Chain Of Custody Number: 16181
Samples Received: 7/15/2015 7:23:00AM
Job Number: 96012-0115
Work Order: P507028
Project Name/Location: Smith Lake- MP 33

Entire Report Reviewed By:

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

Date: 7/16/15

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: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 16-Jul-15 12:01
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS28	P507028-01A	Soil	07/14/15	07/15/15	Glass Jar, 4 oz.
	P507028-01B	Soil	07/14/15	07/15/15	Glass Jar, 4 oz.

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

Project Name: Smith Lake- MP 33
 Project Number: 96012-0115
 Project Manager: Kelly Robinson

Reported:
 16-Jul-15 12:01

CS28

P507028-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10		mg/kg	1	1529012	07/15/15	07/15/15	EPA 8021B	
Toluene	ND	0.10		mg/kg	1	1529012	07/15/15	07/15/15	EPA 8021B	
Ethylbenzene	ND	0.10		mg/kg	1	1529012	07/15/15	07/15/15	EPA 8021B	
p,m-Xylene	ND	0.20		mg/kg	1	1529012	07/15/15	07/15/15	EPA 8021B	
o-Xylene	ND	0.10		mg/kg	1	1529012	07/15/15	07/15/15	EPA 8021B	
Total Xylenes	ND	0.10		mg/kg	1	1529012	07/15/15	07/15/15	EPA 8021B	
Total BTEX	ND	0.10		mg/kg	1	1529012	07/15/15	07/15/15	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.6 %				1529012	07/15/15	07/15/15	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	16.2	9.99		mg/kg	1	1529012	07/15/15	07/15/15	EPA 8015D	
Diesel Range Organics (C10-C28)	74.3	29.9		mg/kg	1	1529013	07/15/15	07/15/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		132 %				1529013	07/15/15	07/15/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		88.0 %				1529012	07/15/15	07/15/15	EPA 8015D	

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

Project Name: Smith Lake- MP 33
Project Number: 96012-0115
Project Manager: Kelly Robinson

Reported:
16-Jul-15 12:01

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
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Batch 1529012 - Purge and Trap EPA 5030A

Blank (1529012-BLK1)

Prepared & Analyzed: 14-Jul-15

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	0.289		"	0.320		90.3	50-150			

LCS (1529012-BS1)

Prepared & Analyzed: 14-Jul-15

Benzene	20.5	0.10	mg/kg	20.0		102	75-125			
Toluene	21.2	0.10	"	20.0		106	70-125			
Ethylbenzene	21.3	0.10	"	20.0		107	75-125			
p,m-Xylene	42.5	0.20	"	40.0		106	80-125			
o-Xylene	20.7	0.10	"	20.0		104	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.290		"	0.320		90.6	50-150			

Matrix Spike (1529012-MS1)

Source: P507021-01

Prepared & Analyzed: 14-Jul-15

Benzene	20.8	0.10	mg/kg	20.0	ND	104	75-125			
Toluene	21.6	0.10	"	20.0	ND	108	70-125			
Ethylbenzene	21.8	0.10	"	20.0	ND	109	75-125			
p,m-Xylene	43.4	0.20	"	40.0	ND	108	80-125			
o-Xylene	21.1	0.10	"	20.0	ND	106	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.291		"	0.320		90.8	50-150			

Matrix Spike Dup (1529012-MSD1)

Source: P507021-01

Prepared & Analyzed: 14-Jul-15

Benzene	16.1	0.10	mg/kg	20.0	ND	80.5	75-125	25.7	15	D1
Toluene	16.5	0.10	"	20.0	ND	82.7	70-125	26.5	15	D1
Ethylbenzene	16.6	0.10	"	20.0	ND	82.9	75-125	27.0	15	D1
p,m-Xylene	33.2	0.20	"	40.0	ND	83.0	80-125	26.6	15	D1
o-Xylene	16.4	0.10	"	20.0	ND	82.1	75-125	25.2	15	D1
Surrogate: 4-Bromochlorobenzene-PID	0.289		"	0.320		90.4	50-150			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 16-Jul-15 12:01
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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 1529012 - Purge and Trap EPA 5030A										
Blank (1529012-BLK1)				Prepared & Analyzed: 14-Jul-15						
Gasoline Range Organics (C6-C10)	ND	10.0	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.272		"	0.320		84.9	50-150			
LCS (1529012-BS1)				Prepared & Analyzed: 14-Jul-15						
Gasoline Range Organics (C6-C10)	385	10.0	mg/kg	368		105	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.272		"	0.320		85.0	50-150			
Matrix Spike (1529012-MS1)				Source: P507021-01		Prepared & Analyzed: 14-Jul-15				
Gasoline Range Organics (C6-C10)	393	10.0	mg/kg	368	ND	107	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.272		"	0.320		85.1	50-150			
Matrix Spike Dup (1529012-MSD1)				Source: P507021-01		Prepared & Analyzed: 14-Jul-15				
Gasoline Range Organics (C6-C10)	304	10.0	mg/kg	368	ND	82.6	75-125	25.6	15	D1
Surrogate: 4-Bromochlorobenzene-FID	0.273		"	0.320		85.4	50-150			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 16-Jul-15 12:01
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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 1529013 - DRO Extraction EPA 3550M										
Blank (1529013-BLK1) Prepared & Analyzed: 14-Jul-15										
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: <i>o</i> -Terphenyl	47.7		"	40.0		119	50-200			
LCS (1529013-BS1) Prepared & Analyzed: 14-Jul-15										
Diesel Range Organics (C10-C28)	542	25.0	mg/kg	500		108	38-132			
Surrogate: <i>o</i> -Terphenyl	49.9		"	40.0		125	50-200			
Matrix Spike (1529013-MS1) Source: P507021-01 Prepared & Analyzed: 14-Jul-15										
Diesel Range Organics (C10-C28)	545	35.0	mg/kg	500	ND	109	38-132			
Surrogate: <i>o</i> -Terphenyl	46.5		"	40.0		116	50-200			
Matrix Spike Dup (1529013-MSD1) Source: P507021-01 Prepared & Analyzed: 14-Jul-15										
Diesel Range Organics (C10-C28)	533	35.0	mg/kg	500	ND	107	38-132	2.25	20	
Surrogate: <i>o</i> -Terphenyl	48.0		"	40.0		120	50-200			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 16-Jul-15 12:01
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Notes and Definitions

- D1 Duplicates or Matrix Spike Duplicates Relative Percent Difference 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

16181

Client: WESTERN REFINING		Project Name / Location: SMITH LAKE - MP33			ANALYSIS / PARAMETERS													
Email results to: Kelly.Robinson@wnr.com		Sampler Name: MATT KRAKOW			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	FCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact		
Client Phone No.: 505-632-4166		Client No.: 96012-0115																
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	FCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact
					HNO ₃	HCl												
CS 28	7/14/15	13:00	P507029-0KZ	4 8oz Jan			X	X									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Relinquished by: (Signature) <i>[Signature]</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time							
				7/15/15	7:23					7/15/15	7:23							
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.																		
				Po# 12613182 2.6 4.6 (3.6)														
5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 • laboratory@envirotech-inc															Page 8 of 8 <small>san juan reproduction 578-129</small>			



Analytical Report

Report Summary

Client: Western Refining Southwest, Inc.
Chain Of Custody Number: 15955
Samples Received: 7/16/2015 9:11:00AM
Job Number: 96012-0115
Work Order: P507031
Project Name/Location: Smith Lake- MP 33

Entire Report Reviewed By:

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

Date: 7/20/15

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: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 20-Jul-15 14:52
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-31	P507031-01A	Soil	07/15/15	07/16/15	Glass Jar, 4 oz.
	P507031-01B	Soil	07/15/15	07/16/15	Glass Jar, 4 oz.

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 20-Jul-15 14:52
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CS-31

P507031-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1529021	07/16/15	07/17/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1529021	07/16/15	07/17/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1529021	07/16/15	07/17/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1529021	07/16/15	07/17/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1529021	07/16/15	07/17/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1529021	07/16/15	07/17/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1529021	07/16/15	07/17/15	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %		50-150	1529021	07/16/15	07/17/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1529021	07/16/15	07/17/15	EPA 8015D	
Diesel Range Organics (C10-C28)	39.0	35.0	mg/kg	1	1529018	07/16/15	07/16/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		102 %		50-200	1529018	07/16/15	07/16/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		99.8 %		50-150	1529021	07/16/15	07/17/15	EPA 8015D	

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 20-Jul-15 14:52
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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
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Batch 1529021 - Purge and Trap EPA 5030A

Blank (1529021-BLK1)

Prepared: 16-Jul-15 Analyzed: 17-Jul-15

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 0.321 " 0.320 101 50-150

LCS (1529021-BS1)

Prepared: 16-Jul-15 Analyzed: 17-Jul-15

Benzene	20.5	0.10	mg/kg	20.0		103	75-125			
Toluene	21.1	0.10	"	20.0		106	70-125			
Ethylbenzene	21.7	0.10	"	20.0		108	75-125			
p,m-Xylene	43.3	0.20	"	40.0		108	80-125			
o-Xylene	21.3	0.10	"	20.0		107	75-125			

Surrogate: 4-Bromochlorobenzene-PID 0.321 " 0.320 100 50-150

Matrix Spike (1529021-MS1)

Source: P507031-01

Prepared: 16-Jul-15 Analyzed: 17-Jul-15

Benzene	20.3	0.10	mg/kg	20.0	ND	102	75-125			
Toluene	20.9	0.10	"	20.0	ND	104	70-125			
Ethylbenzene	21.4	0.10	"	20.0	ND	107	75-125			
p,m-Xylene	42.8	0.20	"	40.0	ND	107	80-125			
o-Xylene	21.1	0.10	"	20.0	ND	105	75-125			

Surrogate: 4-Bromochlorobenzene-PID 0.325 " 0.320 102 50-150

Matrix Spike Dup (1529021-MSD1)

Source: P507031-01

Prepared: 16-Jul-15 Analyzed: 17-Jul-15

Benzene	19.8	0.10	mg/kg	20.0	ND	99.1	75-125	2.66	15	
Toluene	20.3	0.10	"	20.0	ND	102	70-125	2.75	15	
Ethylbenzene	20.8	0.10	"	20.0	ND	104	75-125	2.71	15	
p,m-Xylene	41.7	0.20	"	39.9	ND	105	80-125	2.61	15	
o-Xylene	20.5	0.10	"	20.0	ND	103	75-125	2.53	15	

Surrogate: 4-Bromochlorobenzene-PID 0.324 " 0.319 101 50-150

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 20-Jul-15 14:52
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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
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Batch 1529018 - DRO Extraction EPA 3550M

Blank (1529018-BLK1)										
										Prepared & Analyzed: 16-Jul-15
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: <i>o</i> -Terphenyl	41.8		"	40.0		105	50-200			
LCS (1529018-BS1)										
										Prepared & Analyzed: 16-Jul-15
Diesel Range Organics (C10-C28)	508	25.0	mg/kg	500		102	38-132			
Surrogate: <i>o</i> -Terphenyl	42.9		"	40.0		107	50-200			
Matrix Spike (1529018-MS1)										
										Prepared & Analyzed: 16-Jul-15
		Source: P507029-01								
Diesel Range Organics (C10-C28)	619	30.0	mg/kg	500	ND	124	38-132			
Surrogate: <i>o</i> -Terphenyl	51.1		"	40.0		128	50-200			
Matrix Spike Dup (1529018-MSD1)										
										Prepared & Analyzed: 16-Jul-15
		Source: P507029-01								
Diesel Range Organics (C10-C28)	525	30.0	mg/kg	499	ND	105	38-132	16.5	20	
Surrogate: <i>o</i> -Terphenyl	45.6		"	39.9		114	50-200			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 20-Jul-15 14:52
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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 1529021 - Purge and Trap EPA 5030A										
Blank (1529021-BLK1) Prepared: 16-Jul-15 Analyzed: 17-Jul-15										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.317		"	0.320		99.0	50-150			
LCS (1529021-BS1) Prepared: 16-Jul-15 Analyzed: 17-Jul-15										
Gasoline Range Organics (C6-C10)	461	20.0	mg/kg	449		103	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.314		"	0.320		98.3	50-150			
Matrix Spike (1529021-MS1) Source: P507031-01 Prepared: 16-Jul-15 Analyzed: 17-Jul-15										
Gasoline Range Organics (C6-C10)	460	20.0	mg/kg	449	ND	102	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.319		"	0.320		99.6	50-150			
Matrix Spike Dup (1529021-MSD1) Source: P507031-01 Prepared: 16-Jul-15 Analyzed: 17-Jul-15										
Gasoline Range Organics (C6-C10)	449	20.0	mg/kg	448	ND	100	75-125	2.46	15	
Surrogate: 4-Bromochlorobenzene-FID	0.319		"	0.319		99.7	50-150			

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

Project Name: Smith Lake- MP 33
Project Number: 96012-0115
Project Manager: Kelly Robinson

Reported:
20-Jul-15 14:52

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

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CHAIN OF CUSTODY RECORD

15955

Client: WESTERN REFINING		Project Name / Location: SMITH LAKE - MP33			ANALYSIS / PARAMETERS														
Email results to: Kelly.Robinson@wnr.com		Sampler Name: MATT KRAKOW			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	FCRA 8 Metals	Cation / Anion	FCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact			
Client Phone No.: 505-632-4166		Client No.: 96012-0115																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	FCRA 8 Metals	Cation / Anion	FCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact	
					HNO ₃	HCl													
CS-31	7/15/15	16:40	PSD7031-01	(2) 4oz			X	X										Y	Y
Relinquished by: (Signature) <i>[Signature]</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time								
				7/16/15	9:10					7/16	0911								
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.																			
4.8/5.0 (4.9)								PO# 12613182 <i>RUSH</i>											
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Analytical Report

Report Summary

Client: Western Refining Southwest, Inc.
Chain Of Custody Number: 16182
Samples Received: 7/16/2015 9:11:00AM
Job Number: 96012-0115
Work Order: P507032
Project Name/Location: Smith Lake- MP 33

Entire Report Reviewed By:

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

Date: 7/20/15

Tim Cain, Laboratory Manager

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 20-Jul-15 14:54
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-30	P507032-01A	Soil	07/15/15	07/16/15	Glass Jar, 4 oz.

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 20-Jul-15 14:54
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CS-30
P507032-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1529021	07/16/15	07/17/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	35.0	mg/kg	1	1529018	07/16/15	07/16/15	EPA 8015D	
Surrogate: <i>o</i> -Terphenyl		107 %		50-200	1529018	07/16/15	07/16/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		98.6 %		50-150	1529021	07/16/15	07/17/15	EPA 8015D	

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 20-Jul-15 14:54
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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 1529018 - DRO Extraction EPA 3550M										
Blank (1529018-BLK1)				Prepared & Analyzed: 16-Jul-15						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: <i>o</i> -Terphenyl	41.8		"	40.0		105	50-200			
LCS (1529018-BS1)				Prepared & Analyzed: 16-Jul-15						
Diesel Range Organics (C10-C28)	508	25.0	mg/kg	500		102	38-132			
Surrogate: <i>o</i> -Terphenyl	42.9		"	40.0		107	50-200			
Matrix Spike (1529018-MS1)				Source: P507029-01		Prepared & Analyzed: 16-Jul-15				
Diesel Range Organics (C10-C28)	619	30.0	mg/kg	500	ND	124	38-132			
Surrogate: <i>o</i> -Terphenyl	51.1		"	40.0		128	50-200			
Matrix Spike Dup (1529018-MSD1)				Source: P507029-01		Prepared & Analyzed: 16-Jul-15				
Diesel Range Organics (C10-C28)	525	30.0	mg/kg	499	ND	105	38-132	16.5	20	
Surrogate: <i>o</i> -Terphenyl	45.6		"	39.9		114	50-200			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 20-Jul-15 14:54
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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 1529021 - Purge and Trap EPA 5030A										
Blank (1529021-BLK1)				Prepared: 16-Jul-15 Analyzed: 17-Jul-15						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.317		"	0.320		99.0	50-150			
LCS (1529021-BS1)				Prepared: 16-Jul-15 Analyzed: 17-Jul-15						
Gasoline Range Organics (C6-C10)	461	20.0	mg/kg	449		103	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.314		"	0.320		98.3	50-150			
Matrix Spike (1529021-MS1)				Source: P507031-01		Prepared: 16-Jul-15 Analyzed: 17-Jul-15				
Gasoline Range Organics (C6-C10)	460	20.0	mg/kg	449	ND	102	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.319		"	0.320		99.6	50-150			
Matrix Spike Dup (1529021-MSD1)				Source: P507031-01		Prepared: 16-Jul-15 Analyzed: 17-Jul-15				
Gasoline Range Organics (C6-C10)	449	20.0	mg/kg	448	ND	100	75-125	2.46	15	
Surrogate: 4-Bromochlorobenzene-FID	0.319		"	0.319		99.7	50-150			

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

Project Name: Smith Lake- MP 33
Project Number: 96012-0115
Project Manager: Kelly Robinson

Reported:
20-Jul-15 14:54

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

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CHAIN OF CUSTODY RECORD

16182

Client: WESTERN REFINING		Project Name / Location: SMITH LAKE - MP-33			ANALYSIS / PARAMETERS																																					
Email results to: KELLY.ROBINSON@WNR.COM		Sampler Name: MATT KRAKOW			<div style="text-align: right; font-size: small; margin-bottom: 5px;"> <i>Geo. Data only</i> </div> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <tr> <td style="width: 5%;">TPH (Method 8015)</td> <td style="width: 5%;">BTEX (Method 8021)</td> <td style="width: 5%;">VOC (Method 8260)</td> <td style="width: 5%;">RCRA 8 Metals</td> <td style="width: 5%;">Cation / Anion</td> <td style="width: 5%;">RCI</td> <td style="width: 5%;">TCLP with H/P</td> <td style="width: 5%;">CO Table 910-1</td> <td style="width: 5%;">TPH (418.1)</td> <td style="width: 5%;">CHLORIDE</td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;">Sample Cool</td> <td style="width: 5%;">Sample Intact</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">N/A</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">Y</td> <td style="text-align: center;">Y</td> </tr> </table>										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	X	N/A	N/A										Y	Y
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																			
X	N/A	N/A										Y	Y																													
Client Phone No.: 505-632-4166		Client No.: 96012-0115																																								
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative		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																								
					HNO ₃	HCl																																				
CS-30	7/15/15	11:30	P50703201	(#) 4oz Jars			X	N/A	N/A									Y	Y																							
Relinquished by: (Signature) <i>Kelly Robinson</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time																															
				7/16/15	9:10					7/16	09/11																															
Relinquished by: (Signature)				Received by: (Signature)																																						
Sample Matrix																																										
<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.																																										
				PO# 1263182 <i>RUSH</i>																																						



Analytical Report

Report Summary

Client: Western Refining Southwest, Inc.
Chain Of Custody Number: 16165
Samples Received: 7/16/2015 9:11:00AM
Job Number: 96012-0115
Work Order: P507033
Project Name/Location: Smith Lake- MP 33

Entire Report Reviewed By:

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

Date: 7/20/15

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: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 20-Jul-15 14:56
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-27-1	P507033-01A	Soil	07/15/15	07/16/15	Glass Jar, 4 oz.

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 20-Jul-15 14:56
--	--	------------------------------

CS-27-1
P507033-01 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1529021	07/16/15	07/17/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	35.0	mg/kg	1	1529018	07/16/15	07/16/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		109 %		50-200	1529018	07/16/15	07/16/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		98.3 %		50-150	1529021	07/16/15	07/17/15	EPA 8015D	

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 20-Jul-15 14:56
--	--	------------------------------

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 1529018 - DRO Extraction EPA 3550M										
Blank (1529018-BLK1) Prepared & Analyzed: 16-Jul-15										
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: <i>o</i> -Terphenyl	41.8		"	40.0		105	50-200			
LCS (1529018-BS1) Prepared & Analyzed: 16-Jul-15										
Diesel Range Organics (C10-C28)	508	25.0	mg/kg	500		102	38-132			
Surrogate: <i>o</i> -Terphenyl	42.9		"	40.0		107	50-200			
Matrix Spike (1529018-MS1) Source: P507029-01 Prepared & Analyzed: 16-Jul-15										
Diesel Range Organics (C10-C28)	619	30.0	mg/kg	500	ND	124	38-132			
Surrogate: <i>o</i> -Terphenyl	51.1		"	40.0		128	50-200			
Matrix Spike Dup (1529018-MSD1) Source: P507029-01 Prepared & Analyzed: 16-Jul-15										
Diesel Range Organics (C10-C28)	525	30.0	mg/kg	499	ND	105	38-132	16.5	20	
Surrogate: <i>o</i> -Terphenyl	45.6		"	39.9		114	50-200			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 20-Jul-15 14:56
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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 1529021 - Purge and Trap EPA 5030A										
Blank (1529021-BLK1)				Prepared: 16-Jul-15 Analyzed: 17-Jul-15						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.317		"	0.320		99.0	50-150			
LCS (1529021-BS1)				Prepared: 16-Jul-15 Analyzed: 17-Jul-15						
Gasoline Range Organics (C6-C10)	461	20.0	mg/kg	449		103	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.314		"	0.320		98.3	50-150			
Matrix Spike (1529021-MS1)				Source: P507031-01		Prepared: 16-Jul-15 Analyzed: 17-Jul-15				
Gasoline Range Organics (C6-C10)	460	20.0	mg/kg	449	ND	102	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.319		"	0.320		99.6	50-150			
Matrix Spike Dup (1529021-MSD1)				Source: P507031-01		Prepared: 16-Jul-15 Analyzed: 17-Jul-15				
Gasoline Range Organics (C6-C10)	449	20.0	mg/kg	448	ND	100	75-125	2.46	15	
Surrogate: 4-Bromochlorobenzene-FID	0.319		"	0.319		99.7	50-150			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 20-Jul-15 14:56
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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

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CHAIN OF CUSTODY RECORD

16165

Client: WESTERN REFINING		Project Name / Location: SMITH LAKE - MP33			ANALYSIS / PARAMETERS																
Email results to: KELLY ROBINSON		Sampler Name: MATT KEAKOU			<div style="display: flex; justify-content: space-between; font-size: small;"> <div style="width: 15%;">TPH (Method 8015)</div> <div style="width: 15%;">BTEX (Method 8021)</div> <div style="width: 15%;">VOC (Method 8260)</div> <div style="width: 15%;">RCRA 8 Metals</div> <div style="width: 15%;">Cation / Anion</div> <div style="width: 15%;">RCI</div> <div style="width: 15%;">TCLP with H/P</div> <div style="width: 15%;">CO Table 910-1</div> <div style="width: 15%;">TPH (418.1)</div> <div style="width: 15%;">CHLORIDE</div> <div style="width: 15%;"></div> <div style="width: 15%;"></div> </div>																
Client Phone No.:		Client No.: 96012-0115																			
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative		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	
					HNO ₃	HCl															
CS-27-1	7/15/15	15:05	P507033-01	1-4oz jar			X													✓	✓
Relinquished by: (Signature) <i>Kelly Robinson</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time										
				7/16/15	9:10					7/16	9:11										
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. 4.3								PO # 12613182 RUSH													



Analytical Report

Report Summary

Client: Western Refining Southwest, Inc.
Chain Of Custody Number:
Samples Received: 7/20/2015 9:55:00AM
Job Number: 96012-0115
Work Order: P507048
Project Name/Location: Smith Lake- MP 33

Entire Report Reviewed By:

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

Date: 7/21/15

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: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:53
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-34a-Bottom	P507048-01A	Soil	07/17/15	07/20/15	Glass Jar, 8 oz.
CS-34a-N	P507048-02A	Soil	07/17/15	07/20/15	Glass Jar, 4 oz.
CS-34a-E	P507048-03A	Soil	07/17/15	07/20/15	Glass Jar, 4 oz.
CS-34a-S	P507048-04A	Soil	07/17/15	07/20/15	Glass Jar, 4 oz.
CS-34a-W	P507048-05A	Soil	07/17/15	07/20/15	Glass Jar, 4 oz.

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:53
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CS-34a-Bottom
P507048-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	34.9	mg/kg	1	1530003	07/20/15	07/20/15	EPA 8015D	
Surrogate: <i>o</i> -Terphenyl		95.9 %		50-200	1530003	07/20/15	07/20/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		96.8 %		50-150	1530002	07/20/15	07/20/15	EPA 8015D	

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:53
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CS-34a-N
P507048-02 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1530003	07/20/15	07/20/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		102 %		50-200	1530003	07/20/15	07/20/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		96.7 %		50-150	1530002	07/20/15	07/20/15	EPA 8015D	

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:53
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CS-34a-E
P507048-03 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	35.0	mg/kg	1	1530003	07/20/15	07/20/15	EPA 8015D	
Surrogate: <i>o</i> -Terphenyl		104 %		50-200	1530003	07/20/15	07/20/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		96.5 %		50-150	1530002	07/20/15	07/20/15	EPA 8015D	

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:53
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CS-34a-S
P507048-04 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	35.0	mg/kg	1	1530003	07/20/15	07/20/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		105 %		50-200	1530003	07/20/15	07/20/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		96.3 %		50-150	1530002	07/20/15	07/20/15	EPA 8015D	

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:53
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CS-34a-W
P507048-05 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	35.0	mg/kg	1	1530003	07/20/15	07/20/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		103 %		50-200	1530003	07/20/15	07/20/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		97.0 %		50-150	1530002	07/20/15	07/20/15	EPA 8015D	

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:53
--	--	------------------------------

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
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Batch 1530002 - Purge and Trap EPA 5030A

Blank (1530002-BLK1)										
										Prepared & Analyzed: 20-Jul-15
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.307		"	0.319		96.1	50-150			
LCS (1530002-BS1)										
										Prepared: 20-Jul-15 Analyzed: 21-Jul-15
Gasoline Range Organics (C6-C10)	433	20.0	mg/kg	449		96.3	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.311		"	0.320		97.1	50-150			
Matrix Spike (1530002-MS1)										
										Source: P507047-02 Prepared: 20-Jul-15 Analyzed: 21-Jul-15
Gasoline Range Organics (C6-C10)	405	20.0	mg/kg	449	ND	90.1	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.311		"	0.320		97.3	50-150			
Matrix Spike Dup (1530002-MSD1)										
										Source: P507047-02 Prepared: 20-Jul-15 Analyzed: 21-Jul-15
Gasoline Range Organics (C6-C10)	442	20.0	mg/kg	449	ND	98.4	75-125	8.77	15	
Surrogate: 4-Bromochlorobenzene-FID	0.313		"	0.320		97.8	50-150			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:53
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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 1530003 - DRO Extraction EPA 3550M

Blank (1530003-BLK1)											
										Prepared & Analyzed: 20-Jul-15	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg								
Surrogate: <i>o</i> -Terphenyl	43.4		"	40.0		109	50-200				
LCS (1530003-BS1)											
										Prepared & Analyzed: 20-Jul-15	
Diesel Range Organics (C10-C28)	522	25.0	mg/kg	500		104	38-132				
Surrogate: <i>o</i> -Terphenyl	43.4		"	40.0		108	50-200				
Matrix Spike (1530003-MS1)											
			Source: P507047-02								Prepared & Analyzed: 20-Jul-15
Diesel Range Organics (C10-C28)	335	25.0	mg/kg	499	ND	67.1	38-132				
Surrogate: <i>o</i> -Terphenyl	28.0		"	39.9		70.0	50-200				
Matrix Spike Dup (1530003-MSD1)											
			Source: P507047-02								Prepared & Analyzed: 20-Jul-15
Diesel Range Organics (C10-C28)	365	25.0	mg/kg	500	ND	73.0	38-132	8.59	20		
Surrogate: <i>o</i> -Terphenyl	30.9		"	40.0		77.2	50-200				

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

Project Name: Smith Lake- MP 33
Project Number: 96012-0115
Project Manager: Kelly Robinson

Reported:
21-Jul-15 14:53

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

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Client: WESTERN REFINING
 Project: SMITH LAKE - MP33
 Sampler: KELLY ROBINSON
 Phone: 505-632-4166
 Email(s): Kelly.Robinson@WNR.com
 Project Manager: Kelly Robinson

RUSH?

1d
 3d

Lab Use Only		Analysis and Method				Lab Only	
Lab WO# <u>P507048</u>		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	Lab Number	Correct Cont/Prsrv (s) Y/N
Job Number <u>96012-0115</u>							

Page 1 of 1

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0							Lab Number	Correct Cont/Prsrv (s) Y/N
CS-34a-bottom	7/17/15	11:30	Soil	(1) 4oz	X										1	Y
CS-34a-N	7/17/15	11:45	Soil	(1) 4oz	X										2	Y
CS-34a-E	7/17/15	11:50	Soil	(1) 4oz	X										3	Y
CS-34a-S	7/17/15	11:55	Soil	(1) 4oz	X										4	Y
CS-34a-W	7/17/15	12:00	Soil	(1) 4oz	X										5	Y

Relinquished by: (Signature) <i>Kelly Robinson</i>	Date 7/20/15	Time 9:54	Received by: (Signature) <i>Same Son</i>	Date 7/20/15	Time 9:55	Lab Use Only	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	**Received on Ice <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N	
						T1 <u>8.4</u> T2 <u>7.1</u> T3 <u>24</u>	
						AVG Temp °C <u>7.9</u>	

Sample Matrix: S - Soil, sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 8C on subsequent days.

Sample(s) dropped off after hours to a secure drop off area. Chain of Custody

Notes/Billing info:
PO 12613182



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Analytical Report

Report Summary

Client: Western Refining Southwest, Inc.

Chain Of Custody Number:

Samples Received: 7/20/2015 9:53:00AM

Job Number: 96012-0115

Work Order: P507049

Project Name/Location: Smith Lake- MP 33

Entire Report Reviewed By:

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

Date: 7/21/15

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: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:54
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-32	P507049-01A	Soil	07/17/15	07/20/15	Glass Jar, 8 oz.
CS-33	P507049-02A	Soil	07/17/15	07/20/15	Glass Jar, 8 oz.

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:54
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CS-32
P507049-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.3 %		50-150	1530002	07/20/15	07/20/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	35.0	mg/kg	1	1530003	07/20/15	07/20/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		112 %		50-200	1530003	07/20/15	07/20/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		96.8 %		50-150	1530002	07/20/15	07/20/15	EPA 8015D	

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:54
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CS-33
P507049-02 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B		
Toluene	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B		
Ethylbenzene	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B		
p,m-Xylene	ND	0.20	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B		
o-Xylene	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B		
Total Xylenes	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B		
Total BTEX	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B		
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.2 %		50-150	1530002	07/20/15	07/20/15	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	34.9	mg/kg	1	1530003	07/20/15	07/20/15	EPA 8015D		
<i>Surrogate: o-Terphenyl</i>		115 %		50-200	1530003	07/20/15	07/20/15	EPA 8015D		
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		97.1 %		50-150	1530002	07/20/15	07/20/15	EPA 8015D		

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:54
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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
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Batch 1530002 - Purge and Trap EPA 5030A

Blank (1530002-BLK1)			Prepared & Analyzed: 20-Jul-15							
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	0.316		"	0.319		98.9	50-150			

LCS (1530002-BS1)			Prepared: 20-Jul-15 Analyzed: 21-Jul-15							
Benzene	18.5	0.10	mg/kg	20.0		92.4	75-125			
Toluene	19.4	0.10	"	20.0		96.8	70-125			
Ethylbenzene	20.3	0.10	"	20.0		101	75-125			
p,m-Xylene	40.6	0.20	"	40.0		102	80-125			
o-Xylene	20.0	0.10	"	20.0		100	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.319		"	0.320		99.8	50-150			

Matrix Spike (1530002-MS1)			Source: P507047-02		Prepared: 20-Jul-15 Analyzed: 21-Jul-15					
Benzene	17.1	0.10	mg/kg	20.0	ND	85.5	75-125			
Toluene	18.0	0.10	"	20.0	ND	90.2	70-125			
Ethylbenzene	18.9	0.10	"	20.0	ND	94.5	75-125			
p,m-Xylene	37.9	0.20	"	40.0	ND	94.9	80-125			
o-Xylene	18.8	0.10	"	20.0	ND	94.0	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.318		"	0.320		99.4	50-150			

Matrix Spike Dup (1530002-MSD1)			Source: P507047-02		Prepared: 20-Jul-15 Analyzed: 21-Jul-15					
Benzene	18.8	0.10	mg/kg	20.0	ND	93.9	75-125	9.43	15	
Toluene	19.8	0.10	"	20.0	ND	98.9	70-125	9.24	15	
Ethylbenzene	20.7	0.10	"	20.0	ND	104	75-125	9.26	15	
p,m-Xylene	41.6	0.20	"	40.0	ND	104	80-125	9.16	15	
o-Xylene	20.5	0.10	"	20.0	ND	103	75-125	8.85	15	
Surrogate: 4-Bromochlorobenzene-PID	0.321		"	0.320		100	50-150			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:54
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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 1530002 - Purge and Trap EPA 5030A										
Blank (1530002-BLK1) Prepared & Analyzed: 20-Jul-15										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.307		"	0.319		96.1	50-150			
LCS (1530002-BS1) Prepared: 20-Jul-15 Analyzed: 21-Jul-15										
Gasoline Range Organics (C6-C10)	433	20.0	mg/kg	449		96.3	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.311		"	0.320		97.1	50-150			
Matrix Spike (1530002-MS1) Source: P507047-02 Prepared: 20-Jul-15 Analyzed: 21-Jul-15										
Gasoline Range Organics (C6-C10)	405	20.0	mg/kg	449	ND	90.1	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.311		"	0.320		97.3	50-150			
Matrix Spike Dup (1530002-MSD1) Source: P507047-02 Prepared: 20-Jul-15 Analyzed: 21-Jul-15										
Gasoline Range Organics (C6-C10)	442	20.0	mg/kg	449	ND	98.4	75-125	8.77	15	
Surrogate: 4-Bromochlorobenzene-FID	0.313		"	0.320		97.8	50-150			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:54
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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 1530003 - DRO Extraction EPA 3550M										
Blank (1530003-BLK1)				Prepared & Analyzed: 20-Jul-15						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: <i>o</i> -Terphenyl	43.4		"	40.0		109	50-200			
LCS (1530003-BS1)				Prepared & Analyzed: 20-Jul-15						
Diesel Range Organics (C10-C28)	522	25.0	mg/kg	500		104	38-132			
Surrogate: <i>o</i> -Terphenyl	43.4		"	40.0		108	50-200			
Matrix Spike (1530003-MS1)				Source: P507047-02		Prepared & Analyzed: 20-Jul-15				
Diesel Range Organics (C10-C28)	335	25.0	mg/kg	499	ND	67.1	38-132			
Surrogate: <i>o</i> -Terphenyl	28.0		"	39.9		70.0	50-200			
Matrix Spike Dup (1530003-MSD1)				Source: P507047-02		Prepared & Analyzed: 20-Jul-15				
Diesel Range Organics (C10-C28)	365	25.0	mg/kg	500	ND	73.0	38-132	8.59	20	
Surrogate: <i>o</i> -Terphenyl	30.9		"	40.0		77.2	50-200			

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

Project Name: Smith Lake- MP 33
Project Number: 96012-0115
Project Manager: Kelly Robinson

Reported:
21-Jul-15 14:54

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

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Analytical Report

Report Summary

Client: Western Refining Southwest, Inc.
Chain Of Custody Number:
Samples Received: 7/20/2015 9:53:00AM
Job Number: 96012-0115
Work Order: P507050
Project Name/Location: Smith Lake- MP 33

Entire Report Reviewed By:

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

Date: 7/21/15

Tim Cain, Laboratory Manager

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:55
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-34	P507050-01A	Soil	07/17/15	07/20/15	Glass Jar, 8 oz.

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:55
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CS-34

P507050-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatiles Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.9 %		50-150	1530002	07/20/15	07/20/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	34.9	mg/kg	1	1530003	07/20/15	07/20/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		107 %		50-200	1530003	07/20/15	07/20/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		98.3 %		50-150	1530002	07/20/15	07/20/15	EPA 8015D	

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:55
--	--	------------------------------

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
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Batch 1530002 - Purge and Trap EPA 5030A

Blank (1530002-BLK1)			Prepared & Analyzed: 20-Jul-15							
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	0.316		"	0.319		98.9	50-150			

LCS (1530002-BS1)			Prepared: 20-Jul-15 Analyzed: 21-Jul-15							
Benzene	18.5	0.10	mg/kg	20.0		92.4	75-125			
Toluene	19.4	0.10	"	20.0		96.8	70-125			
Ethylbenzene	20.3	0.10	"	20.0		101	75-125			
p,m-Xylene	40.6	0.20	"	40.0		102	80-125			
o-Xylene	20.0	0.10	"	20.0		100	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.319		"	0.320		99.8	50-150			

Matrix Spike (1530002-MS1)			Source: P507047-02		Prepared: 20-Jul-15 Analyzed: 21-Jul-15					
Benzene	17.1	0.10	mg/kg	20.0	ND	85.5	75-125			
Toluene	18.0	0.10	"	20.0	ND	90.2	70-125			
Ethylbenzene	18.9	0.10	"	20.0	ND	94.5	75-125			
p,m-Xylene	37.9	0.20	"	40.0	ND	94.9	80-125			
o-Xylene	18.8	0.10	"	20.0	ND	94.0	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.318		"	0.320		99.4	50-150			

Matrix Spike Dup (1530002-MSD1)			Source: P507047-02		Prepared: 20-Jul-15 Analyzed: 21-Jul-15					
Benzene	18.8	0.10	mg/kg	20.0	ND	93.9	75-125	9.43	15	
Toluene	19.8	0.10	"	20.0	ND	98.9	70-125	9.24	15	
Ethylbenzene	20.7	0.10	"	20.0	ND	104	75-125	9.26	15	
p,m-Xylene	41.6	0.20	"	40.0	ND	104	80-125	9.16	15	
o-Xylene	20.5	0.10	"	20.0	ND	103	75-125	8.85	15	
Surrogate: 4-Bromochlorobenzene-PID	0.321		"	0.320		100	50-150			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:55
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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
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Batch 1530002 - Purge and Trap EPA 5030A

Blank (1530002-BLK1)		Prepared & Analyzed: 20-Jul-15								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.307		"	0.319		96.1	50-150			
LCS (1530002-BS1)		Prepared: 20-Jul-15 Analyzed: 21-Jul-15								
Gasoline Range Organics (C6-C10)	433	20.0	mg/kg	449		96.3	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.311		"	0.320		97.1	50-150			
Matrix Spike (1530002-MS1)		Source: P507047-02		Prepared: 20-Jul-15 Analyzed: 21-Jul-15						
Gasoline Range Organics (C6-C10)	405	20.0	mg/kg	449	ND	90.1	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.311		"	0.320		97.3	50-150			
Matrix Spike Dup (1530002-MSD1)		Source: P507047-02		Prepared: 20-Jul-15 Analyzed: 21-Jul-15						
Gasoline Range Organics (C6-C10)	442	20.0	mg/kg	449	ND	98.4	75-125	8.77	15	
Surrogate: 4-Bromochlorobenzene-FID	0.313		"	0.320		97.8	50-150			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:55
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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
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Batch 1530003 - DRO Extraction EPA 3550M

Blank (1530003-BLK1)				Prepared & Analyzed: 20-Jul-15						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: <i>o</i> -Terphenyl	43.4		"	40.0		109	50-200			
LCS (1530003-BS1)				Prepared & Analyzed: 20-Jul-15						
Diesel Range Organics (C10-C28)	522	25.0	mg/kg	500		104	38-132			
Surrogate: <i>o</i> -Terphenyl	43.4		"	40.0		108	50-200			
Matrix Spike (1530003-MS1)				Source: P507047-02		Prepared & Analyzed: 20-Jul-15				
Diesel Range Organics (C10-C28)	335	25.0	mg/kg	499	ND	67.1	38-132			
Surrogate: <i>o</i> -Terphenyl	28.0		"	39.9		70.0	50-200			
Matrix Spike Dup (1530003-MSD1)				Source: P507047-02		Prepared & Analyzed: 20-Jul-15				
Diesel Range Organics (C10-C28)	365	25.0	mg/kg	500	ND	73.0	38-132	8.59	20	
Surrogate: <i>o</i> -Terphenyl	30.9		"	40.0		77.2	50-200			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:55
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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

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Analytical Report

Report Summary

Client: Western Refining Southwest, Inc.
Chain Of Custody Number:
Samples Received: 7/20/2015 9:50:00AM
Job Number: 96012-0115
Work Order: P507051
Project Name/Location: Smith Lake- MP 33

Entire Report Reviewed By:

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

Date: 7/21/15

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: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:57
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-35	P507051-01A	Soil	07/17/15	07/20/15	Glass Jar, 8 oz.

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:57
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CS-35

P507051-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatiles Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.7 %		50-150	1530002	07/20/15	07/20/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	19.9	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1530003	07/20/15	07/20/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		110 %		50-200	1530003	07/20/15	07/20/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		96.5 %		50-150	1530002	07/20/15	07/20/15	EPA 8015D	

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:57
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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
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Batch 1530002 - Purge and Trap EPA 5030A

Blank (1530002-BLK1)										
										Prepared & Analyzed: 20-Jul-15
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	"							
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	0.316		"	0.319		98.9	50-150			

LCS (1530002-BS1)										
										Prepared: 20-Jul-15 Analyzed: 21-Jul-15
Benzene	18.5	0.10	mg/kg	20.0		92.4	75-125			
Toluene	19.4	0.10	"	20.0		96.8	70-125			
Ethylbenzene	20.3	0.10	"	20.0		101	75-125			
p,m-Xylene	40.6	0.20	"	40.0		102	80-125			
o-Xylene	20.0	0.10	"	20.0		100	75-125			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	0.319		"	0.320		99.8	50-150			

Matrix Spike (1530002-MS1)										
										Prepared: 20-Jul-15 Analyzed: 21-Jul-15
Source: P507047-02										
Benzene	17.1	0.10	mg/kg	20.0	ND	85.5	75-125			
Toluene	18.0	0.10	"	20.0	ND	90.2	70-125			
Ethylbenzene	18.9	0.10	"	20.0	ND	94.5	75-125			
p,m-Xylene	37.9	0.20	"	40.0	ND	94.9	80-125			
o-Xylene	18.8	0.10	"	20.0	ND	94.0	75-125			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	0.318		"	0.320		99.4	50-150			

Matrix Spike Dup (1530002-MSD1)										
										Prepared: 20-Jul-15 Analyzed: 21-Jul-15
Source: P507047-02										
Benzene	18.8	0.10	mg/kg	20.0	ND	93.9	75-125	9.43	15	
Toluene	19.8	0.10	"	20.0	ND	98.9	70-125	9.24	15	
Ethylbenzene	20.7	0.10	"	20.0	ND	104	75-125	9.26	15	
p,m-Xylene	41.6	0.20	"	40.0	ND	104	80-125	9.16	15	
o-Xylene	20.5	0.10	"	20.0	ND	103	75-125	8.85	15	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	0.321		"	0.320		100	50-150			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:57
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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 1530002 - Purge and Trap EPA 5030A										
Blank (1530002-BLK1)				Prepared & Analyzed: 20-Jul-15						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.307		"	0.319		96.1	50-150			
LCS (1530002-BS1)				Prepared: 20-Jul-15 Analyzed: 21-Jul-15						
Gasoline Range Organics (C6-C10)	433	20.0	mg/kg	449		96.3	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.311		"	0.320		97.1	50-150			
Matrix Spike (1530002-MS1)				Source: P507047-02		Prepared: 20-Jul-15 Analyzed: 21-Jul-15				
Gasoline Range Organics (C6-C10)	405	20.0	mg/kg	449	ND	90.1	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.311		"	0.320		97.3	50-150			
Matrix Spike Dup (1530002-MSD1)				Source: P507047-02		Prepared: 20-Jul-15 Analyzed: 21-Jul-15				
Gasoline Range Organics (C6-C10)	442	20.0	mg/kg	449	ND	98.4	75-125	8.77	15	
Surrogate: 4-Bromochlorobenzene-FID	0.313		"	0.320		97.8	50-150			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:57
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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 1530003 - DRO Extraction EPA 3550M										
Blank (1530003-BLK1) Prepared & Analyzed: 20-Jul-15										
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: <i>o</i> -Terphenyl	43.4		"	40.0		109	50-200			
LCS (1530003-BS1) Prepared & Analyzed: 20-Jul-15										
Diesel Range Organics (C10-C28)	522	25.0	mg/kg	500		104	38-132			
Surrogate: <i>o</i> -Terphenyl	43.4		"	40.0		108	50-200			
Matrix Spike (1530003-MS1) Source: P507047-02 Prepared & Analyzed: 20-Jul-15										
Diesel Range Organics (C10-C28)	335	25.0	mg/kg	499	ND	67.1	38-132			
Surrogate: <i>o</i> -Terphenyl	28.0		"	39.9		70.0	50-200			
Matrix Spike Dup (1530003-MSD1) Source: P507047-02 Prepared & Analyzed: 20-Jul-15										
Diesel Range Organics (C10-C28)	365	25.0	mg/kg	500	ND	73.0	38-132	8.59	20	
Surrogate: <i>o</i> -Terphenyl	30.9		"	40.0		77.2	50-200			

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

Project Name: Smith Lake- MP 33
Project Number: 96012-0115
Project Manager: Kelly Robinson

Reported:
21-Jul-15 14:57

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

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Analytical Report

Report Summary

Client: Western Refining Southwest, Inc.
Chain Of Custody Number:
Samples Received: 7/20/2015 9:51:00AM
Job Number: 96012-0115
Work Order: P507052
Project Name/Location: Smith Lake- MP 33

Entire Report Reviewed By:

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

Date: 7/21/15

Tim Cain, Laboratory Manager

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:58
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-40	P507052-01A	Soil	07/17/15	07/20/15	Glass Jar, 8 oz.

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:58
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CS-40
P507052-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B		
Toluene	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B		
Ethylbenzene	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B		
p,m-Xylene	ND	0.20	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B		
o-Xylene	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B		
Total Xylenes	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B		
Total BTEX	ND	0.10	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8021B		
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.0 %		50-150	1530002	07/20/15	07/20/15	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1530002	07/20/15	07/20/15	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1530003	07/20/15	07/20/15	EPA 8015D		
<i>Surrogate: o-Terphenyl</i>		106 %		50-200	1530003	07/20/15	07/20/15	EPA 8015D		
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		96.8 %		50-150	1530002	07/20/15	07/20/15	EPA 8015D		

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:58
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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
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Batch 1530002 - Purge and Trap EPA 5030A

Blank (1530002-BLK1)			Prepared & Analyzed: 20-Jul-15							
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	"							
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	0.316		"	0.319		98.9	50-150			

LCS (1530002-BS1)			Prepared: 20-Jul-15 Analyzed: 21-Jul-15							
Benzene	18.5	0.10	mg/kg	20.0		92.4	75-125			
Toluene	19.4	0.10	"	20.0		96.8	70-125			
Ethylbenzene	20.3	0.10	"	20.0		101	75-125			
p,m-Xylene	40.6	0.20	"	40.0		102	80-125			
o-Xylene	20.0	0.10	"	20.0		100	75-125			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	0.319		"	0.320		99.8	50-150			

Matrix Spike (1530002-MS1)			Source: P507047-02		Prepared: 20-Jul-15 Analyzed: 21-Jul-15					
Benzene	17.1	0.10	mg/kg	20.0	ND	85.5	75-125			
Toluene	18.0	0.10	"	20.0	ND	90.2	70-125			
Ethylbenzene	18.9	0.10	"	20.0	ND	94.5	75-125			
p,m-Xylene	37.9	0.20	"	40.0	ND	94.9	80-125			
o-Xylene	18.8	0.10	"	20.0	ND	94.0	75-125			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	0.318		"	0.320		99.4	50-150			

Matrix Spike Dup (1530002-MSD1)			Source: P507047-02		Prepared: 20-Jul-15 Analyzed: 21-Jul-15					
Benzene	18.8	0.10	mg/kg	20.0	ND	93.9	75-125	9.43	15	
Toluene	19.8	0.10	"	20.0	ND	98.9	70-125	9.24	15	
Ethylbenzene	20.7	0.10	"	20.0	ND	104	75-125	9.26	15	
p,m-Xylene	41.6	0.20	"	40.0	ND	104	80-125	9.16	15	
o-Xylene	20.5	0.10	"	20.0	ND	103	75-125	8.85	15	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	0.321		"	0.320		100	50-150			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:58
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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 1530002 - Purge and Trap EPA 5030A										
Blank (1530002-BLK1)				Prepared & Analyzed: 20-Jul-15						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.307		"	0.319		96.1	50-150			
LCS (1530002-BS1)				Prepared: 20-Jul-15 Analyzed: 21-Jul-15						
Gasoline Range Organics (C6-C10)	433	20.0	mg/kg	449		96.3	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.311		"	0.320		97.1	50-150			
Matrix Spike (1530002-MS1)				Source: P507047-02		Prepared: 20-Jul-15 Analyzed: 21-Jul-15				
Gasoline Range Organics (C6-C10)	405	20.0	mg/kg	449	ND	90.1	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.311		"	0.320		97.3	50-150			
Matrix Spike Dup (1530002-MSD1)				Source: P507047-02		Prepared: 20-Jul-15 Analyzed: 21-Jul-15				
Gasoline Range Organics (C6-C10)	442	20.0	mg/kg	449	ND	98.4	75-125	8.77	15	
Surrogate: 4-Bromochlorobenzene-FID	0.313		"	0.320		97.8	50-150			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:58
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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
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Batch 1530003 - DRO Extraction EPA 3550M

Blank (1530003-BLK1)										
										Prepared & Analyzed: 20-Jul-15
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: <i>o</i> -Terphenyl	43.4		"	40.0		109	50-200			
LCS (1530003-BS1)										
										Prepared & Analyzed: 20-Jul-15
Diesel Range Organics (C10-C28)	522	25.0	mg/kg	500		104	38-132			
Surrogate: <i>o</i> -Terphenyl	43.4		"	40.0		108	50-200			
Matrix Spike (1530003-MS1)										
										Source: P507047-02
										Prepared & Analyzed: 20-Jul-15
Diesel Range Organics (C10-C28)	335	25.0	mg/kg	499	ND	67.1	38-132			
Surrogate: <i>o</i> -Terphenyl	28.0		"	39.9		70.0	50-200			
Matrix Spike Dup (1530003-MSD1)										
										Source: P507047-02
										Prepared & Analyzed: 20-Jul-15
Diesel Range Organics (C10-C28)	365	25.0	mg/kg	500	ND	73.0	38-132	8.59	20	
Surrogate: <i>o</i> -Terphenyl	30.9		"	40.0		77.2	50-200			

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

Project Name: Smith Lake- MP 33
Project Number: 96012-0115
Project Manager: Kelly Robinson

Reported:
21-Jul-15 14:58

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

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Client: WESTERN REFINING
 Project: SMITH LAKE - MP33
 Sampler: KELLY ROBINSON
 Phone: 505-632-4166
 Email(s): Kelly.Robinson@wjr.com
 Project Manager: Kelly Robinson

RUSH?
 1d
 3d

Lab Use Only		Analysis and Method				Lab Only	
Lab WO# <u>P507052</u>		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	Lab Number	Correct Cont./Prsrv (s) Y/N
Job Number <u>94012-0115</u>							

Page 1 of 1

Sample ID	Sample Date	Sample Time	Matrix	Containers		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0										
				QTY	Vol/TYPE/Preservative														
<u>CS-40</u>	<u>7/17/15</u>	<u>15:40</u>	<u>S</u>	<u>(1)</u>	<u>8oz</u>	<u>X</u>	<u>X</u>											<u>1</u>	<u>Y</u>

Relinquished by: (Signature) <u>Kelly Robinson</u>	Date <u>7/20/15</u>	Time <u>9:40</u>	Received by: (Signature) <u>Kelly Robinson</u>	Date <u>7/20/15</u>	Time <u>9:51</u>	Lab Use Only **Received on Ice <input checked="" type="checkbox"/> / N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 <u>5.3</u> T2 <u> </u> T3 <u> </u> AVG Temp °C <u>5.3</u>

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 8C on subsequent days.

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

Chain of Custody _____ Notes/Billing info: PO 12613182



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Analytical Report

Report Summary

Client: Western Refining Southwest, Inc.
Chain Of Custody Number:
Samples Received: 7/20/2015 9:50:00AM
Job Number: 96012-0115
Work Order: P507053
Project Name/Location: Smith Lake- MP 33

Entire Report Reviewed By:

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

Date: 7/21/15

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: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:59
--	--	------------------------------

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-38	P507053-01A	Soil	07/17/15	07/20/15	Glass Jar, 8 oz.

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:59
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CS-38

P507053-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.7 %		50-150	1530004	07/20/15	07/20/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	34.9	mg/kg	1	1530003	07/20/15	07/20/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		101 %		50-200	1530003	07/20/15	07/20/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		97.4 %		50-150	1530004	07/20/15	07/20/15	EPA 8015D	

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

Project Name: Smith Lake- MP 33
Project Number: 96012-0115
Project Manager: Kelly Robinson

Reported:
21-Jul-15 14:59

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
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Batch 1530004 - Purge and Trap EPA 5030A

Blank (1530004-BLK1)

Prepared: 20-Jul-15 Analyzed: 21-Jul-15

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	0.317		"	0.319		99.5	50-150			

LCS (1530004-BS1)

Prepared: 20-Jul-15 Analyzed: 21-Jul-15

Benzene	17.4	0.10	mg/kg	20.0		87.1	75-125			
Toluene	18.4	0.10	"	20.0		92.2	70-125			
Ethylbenzene	19.4	0.10	"	20.0		97.1	75-125			
p,m-Xylene	38.8	0.20	"	40.0		97.2	80-125			
o-Xylene	19.2	0.10	"	20.0		96.2	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.322		"	0.320		101	50-150			

Matrix Spike (1530004-MS1)

Source: P507053-01

Prepared: 20-Jul-15 Analyzed: 21-Jul-15

Benzene	17.6	0.10	mg/kg	20.0	ND	88.4	75-125			
Toluene	18.7	0.10	"	20.0	ND	94.0	70-125			
Ethylbenzene	19.7	0.10	"	20.0	ND	98.7	75-125			
p,m-Xylene	39.6	0.20	"	39.9	ND	99.1	80-125			
o-Xylene	19.5	0.10	"	20.0	ND	97.9	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.321		"	0.319		101	50-150			

Matrix Spike Dup (1530004-MSD1)

Source: P507053-01

Prepared: 20-Jul-15 Analyzed: 21-Jul-15

Benzene	18.4	0.10	mg/kg	19.9	ND	92.1	75-125	4.02	15	
Toluene	19.5	0.10	"	19.9	ND	97.9	70-125	4.06	15	
Ethylbenzene	20.5	0.10	"	19.9	ND	103	75-125	4.05	15	
p,m-Xylene	41.2	0.20	"	39.9	ND	103	80-125	3.93	15	
o-Xylene	20.3	0.10	"	19.9	ND	102	75-125	3.87	15	
Surrogate: 4-Bromochlorobenzene-PID	0.428		"	0.319		134	50-150			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:59
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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
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Batch 1530003 - DRO Extraction EPA 3550M

Blank (1530003-BLK1)				Prepared & Analyzed: 20-Jul-15						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: <i>o</i> -Terphenyl	43.4		"	40.0		109	50-200			
LCS (1530003-BS1)				Prepared & Analyzed: 20-Jul-15						
Diesel Range Organics (C10-C28)	522	25.0	mg/kg	500		104	38-132			
Surrogate: <i>o</i> -Terphenyl	43.4		"	40.0		108	50-200			
Matrix Spike (1530003-MS1)				Source: P507047-02		Prepared & Analyzed: 20-Jul-15				
Diesel Range Organics (C10-C28)	335	25.0	mg/kg	499	ND	67.1	38-132			
Surrogate: <i>o</i> -Terphenyl	28.0		"	39.9		70.0	50-200			
Matrix Spike Dup (1530003-MSD1)				Source: P507047-02		Prepared & Analyzed: 20-Jul-15				
Diesel Range Organics (C10-C28)	365	25.0	mg/kg	500	ND	73.0	38-132	8.59	20	
Surrogate: <i>o</i> -Terphenyl	30.9		"	40.0		77.2	50-200			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:59
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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 1530004 - Purge and Trap EPA 5030A										
Blank (1530004-BLK1) Prepared: 20-Jul-15 Analyzed: 21-Jul-15										
Gasoline Range Organics (C6-C10)	ND	19.9	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.309		"	0.319		96.7	50-150			
LCS (1530004-BS1) Prepared: 20-Jul-15 Analyzed: 21-Jul-15										
Gasoline Range Organics (C6-C10)	413	20.0	mg/kg	449		92.1	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.313		"	0.320		97.9	50-150			
Matrix Spike (1530004-MS1) Source: P507053-01 Prepared: 20-Jul-15 Analyzed: 21-Jul-15										
Gasoline Range Organics (C6-C10)	424	20.0	mg/kg	448	ND	94.6	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.313		"	0.319		98.1	50-150			
Matrix Spike Dup (1530004-MSD1) Source: P507053-01 Prepared: 20-Jul-15 Analyzed: 21-Jul-15										
Gasoline Range Organics (C6-C10)	440	19.9	mg/kg	448	ND	98.2	75-125	3.70	15	
Surrogate: 4-Bromochlorobenzene-FID	0.273		"	0.319		85.6	50-150			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 14:59
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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

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Analytical Report

Report Summary

Client: Western Refining Southwest, Inc.
Chain Of Custody Number:
Samples Received: 7/20/2015 9:58:00AM
Job Number: 96012-0115
Work Order: P507054
Project Name/Location: Smith Lake- MP 33

Entire Report Reviewed By:

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

Date: 7/21/15

Tim Cain, Laboratory Manager

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 15:01
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-41	P507054-01A	Soil	07/17/15	07/20/15	Glass Jar, 4 oz.
	P507054-01B	Soil	07/17/15	07/20/15	Glass Jar, 4 oz.

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

Project Name: Smith Lake- MP 33
 Project Number: 96012-0115
 Project Manager: Kelly Robinson

Reported:
 21-Jul-15 15:01

CS-41

P507054-01 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.2 %		50-150	1530004	07/20/15	07/20/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1530003	07/20/15	07/20/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		100 %		50-200	1530003	07/20/15	07/20/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		96.8 %		50-150	1530004	07/20/15	07/20/15	EPA 8015D	

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 15:01
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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
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Batch 1530004 - Purge and Trap EPA 5030A

Blank (1530004-BLK1)			Prepared: 20-Jul-15 Analyzed: 21-Jul-15							
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	"							
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	0.317		"	0.319		99.5	50-150			

LCS (1530004-BS1)			Prepared: 20-Jul-15 Analyzed: 21-Jul-15							
Benzene	17.4	0.10	mg/kg	20.0		87.1	75-125			
Toluene	18.4	0.10	"	20.0		92.2	70-125			
Ethylbenzene	19.4	0.10	"	20.0		97.1	75-125			
p,m-Xylene	38.8	0.20	"	40.0		97.2	80-125			
o-Xylene	19.2	0.10	"	20.0		96.2	75-125			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	0.322		"	0.320		101	50-150			

Matrix Spike (1530004-MS1)			Source: P507053-01		Prepared: 20-Jul-15 Analyzed: 21-Jul-15					
Benzene	17.6	0.10	mg/kg	20.0	ND	88.4	75-125			
Toluene	18.7	0.10	"	20.0	ND	94.0	70-125			
Ethylbenzene	19.7	0.10	"	20.0	ND	98.7	75-125			
p,m-Xylene	39.6	0.20	"	39.9	ND	99.1	80-125			
o-Xylene	19.5	0.10	"	20.0	ND	97.9	75-125			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	0.321		"	0.319		101	50-150			

Matrix Spike Dup (1530004-MSD1)			Source: P507053-01		Prepared: 20-Jul-15 Analyzed: 21-Jul-15					
Benzene	18.4	0.10	mg/kg	19.9	ND	92.1	75-125	4.02	15	
Toluene	19.5	0.10	"	19.9	ND	97.9	70-125	4.06	15	
Ethylbenzene	20.5	0.10	"	19.9	ND	103	75-125	4.05	15	
p,m-Xylene	41.2	0.20	"	39.9	ND	103	80-125	3.93	15	
o-Xylene	20.3	0.10	"	19.9	ND	102	75-125	3.87	15	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	0.428		"	0.319		134	50-150			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 15:01
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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 1530003 - DRO Extraction EPA 3550M										
Blank (1530003-BLK1)				Prepared & Analyzed: 20-Jul-15						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: <i>o</i> -Terphenyl	43.4		"	40.0		109	50-200			
LCS (1530003-BS1)				Prepared & Analyzed: 20-Jul-15						
Diesel Range Organics (C10-C28)	522	25.0	mg/kg	500		104	38-132			
Surrogate: <i>o</i> -Terphenyl	43.4		"	40.0		108	50-200			
Matrix Spike (1530003-MS1)				Source: P507047-02		Prepared & Analyzed: 20-Jul-15				
Diesel Range Organics (C10-C28)	335	25.0	mg/kg	499	ND	67.1	38-132			
Surrogate: <i>o</i> -Terphenyl	28.0		"	39.9		70.0	50-200			
Matrix Spike Dup (1530003-MSD1)				Source: P507047-02		Prepared & Analyzed: 20-Jul-15				
Diesel Range Organics (C10-C28)	365	25.0	mg/kg	500	ND	73.0	38-132	8.59	20	
Surrogate: <i>o</i> -Terphenyl	30.9		"	40.0		77.2	50-200			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 15:01
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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 1530004 - Purge and Trap EPA 5030A										
Blank (1530004-BLK1)				Prepared: 20-Jul-15 Analyzed: 21-Jul-15						
Gasoline Range Organics (C6-C10)	ND	19.9	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.309		"	0.319		96.7	50-150			
LCS (1530004-BS1)				Prepared: 20-Jul-15 Analyzed: 21-Jul-15						
Gasoline Range Organics (C6-C10)	413	20.0	mg/kg	449		92.1	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.313		"	0.320		97.9	50-150			
Matrix Spike (1530004-MS1)				Source: P507053-01		Prepared: 20-Jul-15 Analyzed: 21-Jul-15				
Gasoline Range Organics (C6-C10)	424	20.0	mg/kg	448	ND	94.6	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.313		"	0.319		98.1	50-150			
Matrix Spike Dup (1530004-MSD1)				Source: P507053-01		Prepared: 20-Jul-15 Analyzed: 21-Jul-15				
Gasoline Range Organics (C6-C10)	440	19.9	mg/kg	448	ND	98.2	75-125	3.70	15	
Surrogate: 4-Bromochlorobenzene-FID	0.273		"	0.319		85.6	50-150			

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

Project Name: Smith Lake- MP 33
Project Number: 96012-0115
Project Manager: Kelly Robinson

Reported:
21-Jul-15 15:01

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

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Analytical Report

Report Summary

Client: Western Refining Southwest, Inc.
Chain Of Custody Number:
Samples Received: 7/20/2015 9:50:00AM
Job Number: 96012-0115
Work Order: P507055
Project Name/Location: Smith Lake- MP 33

Entire Report Reviewed By:

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

Date: 7/21/15

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: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 15:02
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-39	P507055-01A	Soil	07/17/15	07/20/15	Glass Jar, 8 oz.

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 15:02
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CS-39

P507055-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatiles Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
o-Xylene	0.12	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
Total Xylenes	0.12	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
Total BTEX	0.12	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	1530004	07/20/15	07/20/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	44.2	20.0	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8015D	
Diesel Range Organics (C10-C28)	45.0	35.0	mg/kg	1	1530003	07/20/15	07/20/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		110 %		50-200	1530003	07/20/15	07/20/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		102 %		50-150	1530004	07/20/15	07/20/15	EPA 8015D	

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 15:02
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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
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Batch 1530004 - Purge and Trap EPA 5030A

Blank (1530004-BLK1)										
					Prepared: 20-Jul-15 Analyzed: 21-Jul-15					
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	0.317		"	0.319		99.5	50-150			

LCS (1530004-BS1)										
					Prepared: 20-Jul-15 Analyzed: 21-Jul-15					
Benzene	17.4	0.10	mg/kg	20.0		87.1	75-125			
Toluene	18.4	0.10	"	20.0		92.2	70-125			
Ethylbenzene	19.4	0.10	"	20.0		97.1	75-125			
p,m-Xylene	38.8	0.20	"	40.0		97.2	80-125			
o-Xylene	19.2	0.10	"	20.0		96.2	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.322		"	0.320		101	50-150			

Matrix Spike (1530004-MS1)										
			Source: P507053-01		Prepared: 20-Jul-15 Analyzed: 21-Jul-15					
Benzene	17.6	0.10	mg/kg	20.0	ND	88.4	75-125			
Toluene	18.7	0.10	"	20.0	ND	94.0	70-125			
Ethylbenzene	19.7	0.10	"	20.0	ND	98.7	75-125			
p,m-Xylene	39.6	0.20	"	39.9	ND	99.1	80-125			
o-Xylene	19.5	0.10	"	20.0	ND	97.9	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.321		"	0.319		101	50-150			

Matrix Spike Dup (1530004-MSD1)										
			Source: P507053-01		Prepared: 20-Jul-15 Analyzed: 21-Jul-15					
Benzene	18.4	0.10	mg/kg	19.9	ND	92.1	75-125	4.02	15	
Toluene	19.5	0.10	"	19.9	ND	97.9	70-125	4.06	15	
Ethylbenzene	20.5	0.10	"	19.9	ND	103	75-125	4.05	15	
p,m-Xylene	41.2	0.20	"	39.9	ND	103	80-125	3.93	15	
o-Xylene	20.3	0.10	"	19.9	ND	102	75-125	3.87	15	
Surrogate: 4-Bromochlorobenzene-PID	0.428		"	0.319		134	50-150			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 15:02
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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
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Batch 1530003 - DRO Extraction EPA 3550M

Blank (1530003-BLK1)				Prepared & Analyzed: 20-Jul-15						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: <i>o</i> -Terphenyl	43.4		"	40.0		109	50-200			
LCS (1530003-BS1)				Prepared & Analyzed: 20-Jul-15						
Diesel Range Organics (C10-C28)	522	25.0	mg/kg	500		104	38-132			
Surrogate: <i>o</i> -Terphenyl	43.4		"	40.0		108	50-200			
Matrix Spike (1530003-MS1)				Source: P507047-02		Prepared & Analyzed: 20-Jul-15				
Diesel Range Organics (C10-C28)	335	25.0	mg/kg	499	ND	67.1	38-132			
Surrogate: <i>o</i> -Terphenyl	28.0		"	39.9		70.0	50-200			
Matrix Spike Dup (1530003-MSD1)				Source: P507047-02		Prepared & Analyzed: 20-Jul-15				
Diesel Range Organics (C10-C28)	365	25.0	mg/kg	500	ND	73.0	38-132	8.59	20	
Surrogate: <i>o</i> -Terphenyl	30.9		"	40.0		77.2	50-200			

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

Project Name: Smith Lake- MP 33
 Project Number: 96012-0115
 Project Manager: Kelly Robinson

Reported:
 21-Jul-15 15:02

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 1530004 - Purge and Trap EPA 5030A										
Blank (1530004-BLK1) Prepared: 20-Jul-15 Analyzed: 21-Jul-15										
Gasoline Range Organics (C6-C10)	ND	19.9	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.309		"	0.319		96.7	50-150			
LCS (1530004-BS1) Prepared: 20-Jul-15 Analyzed: 21-Jul-15										
Gasoline Range Organics (C6-C10)	413	20.0	mg/kg	449		92.1	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.313		"	0.320		97.9	50-150			
Matrix Spike (1530004-MS1) Source: P507053-01 Prepared: 20-Jul-15 Analyzed: 21-Jul-15										
Gasoline Range Organics (C6-C10)	424	20.0	mg/kg	448	ND	94.6	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.313		"	0.319		98.1	50-150			
Matrix Spike Dup (1530004-MSD1) Source: P507053-01 Prepared: 20-Jul-15 Analyzed: 21-Jul-15										
Gasoline Range Organics (C6-C10)	440	19.9	mg/kg	448	ND	98.2	75-125	3.70	15	
Surrogate: 4-Bromochlorobenzene-FID	0.273		"	0.319		85.6	50-150			

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

Project Name: Smith Lake- MP 33
Project Number: 96012-0115
Project Manager: Kelly Robinson

Reported:
21-Jul-15 15:02

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

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Analytical Report

Report Summary

Client: Western Refining Southwest, Inc.

Chain Of Custody Number:

Samples Received: 7/20/2015 9:50:00AM

Job Number: 96012-0115

Work Order: P507056

Project Name/Location: Smith Lake- MP 33

Entire Report Reviewed By:

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

Date: 7/21/15

Tim Cain, Laboratory Manager

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 15:03
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-36	P507056-01A	Soil	07/17/15	07/20/15	Glass Jar, 8 oz.
CS-37	P507056-02A	Soil	07/17/15	07/20/15	Glass Jar, 8 oz.

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 15:03
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CS-36

P507056-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatiles Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.0 %		50-150	1530004	07/20/15	07/20/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1530003	07/20/15	07/20/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		112 %		50-200	1530003	07/20/15	07/20/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		97.4 %		50-150	1530004	07/20/15	07/20/15	EPA 8015D	

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Western Refining Southwest, Inc.
 PO Box 159
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Project Name: Smith Lake- MP 33
 Project Number: 96012-0115
 Project Manager: Kelly Robinson

Reported:
 21-Jul-15 15:03

CS-37

P507056-02 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B		
Toluene	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B		
Ethylbenzene	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B		
p,m-Xylene	ND	0.20	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B		
o-Xylene	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B		
Total Xylenes	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B		
Total BTEX	ND	0.10	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8021B		
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %		50-150	1530004	07/20/15	07/20/15	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	19.9	mg/kg	1	1530004	07/20/15	07/20/15	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	40.0	mg/kg	2	1530003	07/20/15	07/20/15	EPA 8015D		
<i>Surrogate: o-Terphenyl</i>		108 %		50-200	1530003	07/20/15	07/20/15	EPA 8015D		
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		99.3 %		50-150	1530004	07/20/15	07/20/15	EPA 8015D		

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 15:03
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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
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Batch 1530004 - Purge and Trap EPA 5030A

Blank (1530004-BLK1)			Prepared: 20-Jul-15 Analyzed: 21-Jul-15							
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	"							
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	0.317		"	0.319		99.5	50-150			

LCS (1530004-BS1)			Prepared: 20-Jul-15 Analyzed: 21-Jul-15							
Benzene	17.4	0.10	mg/kg	20.0		87.1	75-125			
Toluene	18.4	0.10	"	20.0		92.2	70-125			
Ethylbenzene	19.4	0.10	"	20.0		97.1	75-125			
p,m-Xylene	38.8	0.20	"	40.0		97.2	80-125			
o-Xylene	19.2	0.10	"	20.0		96.2	75-125			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	0.322		"	0.320		101	50-150			

Matrix Spike (1530004-MS1)			Source: P507053-01		Prepared: 20-Jul-15 Analyzed: 21-Jul-15					
Benzene	17.6	0.10	mg/kg	20.0	ND	88.4	75-125			
Toluene	18.7	0.10	"	20.0	ND	94.0	70-125			
Ethylbenzene	19.7	0.10	"	20.0	ND	98.7	75-125			
p,m-Xylene	39.6	0.20	"	39.9	ND	99.1	80-125			
o-Xylene	19.5	0.10	"	20.0	ND	97.9	75-125			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	0.321		"	0.319		101	50-150			

Matrix Spike Dup (1530004-MSD1)			Source: P507053-01		Prepared: 20-Jul-15 Analyzed: 21-Jul-15					
Benzene	18.4	0.10	mg/kg	19.9	ND	92.1	75-125	4.02	15	
Toluene	19.5	0.10	"	19.9	ND	97.9	70-125	4.06	15	
Ethylbenzene	20.5	0.10	"	19.9	ND	103	75-125	4.05	15	
p,m-Xylene	41.2	0.20	"	39.9	ND	103	80-125	3.93	15	
o-Xylene	20.3	0.10	"	19.9	ND	102	75-125	3.87	15	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	0.428		"	0.319		134	50-150			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 15:03
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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
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Batch 1530003 - DRO Extraction EPA 3550M

Blank (1530003-BLK1)			Prepared & Analyzed: 20-Jul-15							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: <i>o</i> -Terphenyl	43.4		"	40.0		109	50-200			
LCS (1530003-BS1)			Prepared & Analyzed: 20-Jul-15							
Diesel Range Organics (C10-C28)	522	25.0	mg/kg	500		104	38-132			
Surrogate: <i>o</i> -Terphenyl	43.4		"	40.0		108	50-200			
Matrix Spike (1530003-MS1)			Source: P507047-02		Prepared & Analyzed: 20-Jul-15					
Diesel Range Organics (C10-C28)	335	25.0	mg/kg	499	ND	67.1	38-132			
Surrogate: <i>o</i> -Terphenyl	28.0		"	39.9		70.0	50-200			
Matrix Spike Dup (1530003-MSD1)			Source: P507047-02		Prepared & Analyzed: 20-Jul-15					
Diesel Range Organics (C10-C28)	365	25.0	mg/kg	500	ND	73.0	38-132	8.59	20	
Surrogate: <i>o</i> -Terphenyl	30.9		"	40.0		77.2	50-200			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 15:03
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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 1530004 - Purge and Trap EPA 5030A										
Blank (1530004-BLK1)				Prepared: 20-Jul-15 Analyzed: 21-Jul-15						
Gasoline Range Organics (C6-C10)	ND	19.9	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.309		"	0.319		96.7	50-150			
LCS (1530004-BS1)				Prepared: 20-Jul-15 Analyzed: 21-Jul-15						
Gasoline Range Organics (C6-C10)	413	20.0	mg/kg	449		92.1	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.313		"	0.320		97.9	50-150			
Matrix Spike (1530004-MS1)				Source: P507053-01		Prepared: 20-Jul-15 Analyzed: 21-Jul-15				
Gasoline Range Organics (C6-C10)	424	20.0	mg/kg	448	ND	94.6	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.313		"	0.319		98.1	50-150			
Matrix Spike Dup (1530004-MSD1)				Source: P507053-01		Prepared: 20-Jul-15 Analyzed: 21-Jul-15				
Gasoline Range Organics (C6-C10)	440	19.9	mg/kg	448	ND	98.2	75-125	3.70	15	
Surrogate: 4-Bromochlorobenzene-FID	0.273		"	0.319		85.6	50-150			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 15:03
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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

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Client: WESTERN REFINING
 Project: SMITH LAKE - MP33
 Sampler: KELLY ROBINSON
 Phone: 505-632-4166
 Email(s): Kelly.Robinson@WNR.com
 Project Manager: Kelly Robinson

RUSH?
 1d
 3d

Lab Use Only		Analysis and Method				lab Only
Lab WO# P507054		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	Lab Number
Job Number 96012-0115						

Page 1 of 1

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	lab Only	
									Lab Number	Correct Cont/Prsrv (s) Y/N
CS-36	7/17/15	13:15	Soil	(1) 8oz	X	X				1 ✓
CS-37	7/17/15	13:25	Soil	(1) 8oz	X	X				2 ✓

Relinquished by: (Signature) <i>Kelly Robinson</i>	Date 7/20/15	Time 9:37	Received by: (Signature) <i>Dame Z...</i>	Date 7/20/15	Time 9:50	Lab Use Only	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	**Received on Ice <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N	T3 _____
						T1 <u>3.6</u>	T2 <u>8.6</u>
						AVG Temp °C <u>6.1</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6C on subsequent days.

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

Chain of Custody

Notes/Billing Info:
PO 12613182



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Analytical Report

Report Summary

Client: Western Refining Southwest, Inc.

Chain Of Custody Number:

Samples Received: 7/20/2015 9:49:00AM

Job Number: 96012-0115

Work Order: P507057

Project Name/Location: Smith Lake- MP 33

Entire Report Reviewed By:

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

Date: 7/21/15

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: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 15:06
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-34a-Trench Bottom	P507057-01A	Soil	07/17/15	07/20/15	Glass Jar, 4 oz.
CS-34a-N. Trench Wall	P507057-02A	Soil	07/17/15	07/20/15	Glass Jar, 4 oz.
CS-34a-S. Trench Wall	P507057-03A	Soil	07/17/15	07/20/15	Glass Jar, 4 oz.

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 15:06
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CS-34a-Trench Bottom
P507057-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1530004	07/20/15	07/21/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	35.0	mg/kg	1	1530003	07/20/15	07/20/15	EPA 8015D	
Surrogate: <i>o</i> -Terphenyl		105 %		50-200	1530003	07/20/15	07/20/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		97.5 %		50-150	1530004	07/20/15	07/21/15	EPA 8015D	

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 15:06
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CS-34a-N. Trench Wall
P507057-02 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	129	20.0	mg/kg	1	1530004	07/20/15	07/21/15	EPA 8015D	
Diesel Range Organics (C10-C28)	161	35.0	mg/kg	1	1530003	07/20/15	07/20/15	EPA 8015D	
Surrogate: <i>o</i> -Terphenyl		111 %		50-200	1530003	07/20/15	07/20/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		107 %		50-150	1530004	07/20/15	07/21/15	EPA 8015D	

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 15:06
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CS-34a-S. Trench Wall
P507057-03 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	19.9	mg/kg	1	1530004	07/20/15	07/21/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	35.0	mg/kg	1	1530003	07/20/15	07/21/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		108 %		50-200	1530003	07/20/15	07/21/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		97.1 %		50-150	1530004	07/20/15	07/21/15	EPA 8015D	

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 15:06
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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
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Batch 1530003 - DRO Extraction EPA 3550M

Blank (1530003-BLK1)		Prepared & Analyzed: 20-Jul-15								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: <i>o</i> -Terphenyl	43.4		"	40.0		109	50-200			
LCS (1530003-BS1)		Prepared & Analyzed: 20-Jul-15								
Diesel Range Organics (C10-C28)	522	25.0	mg/kg	500		104	38-132			
Surrogate: <i>o</i> -Terphenyl	43.4		"	40.0		108	50-200			
Matrix Spike (1530003-MS1)		Source: P507047-02		Prepared & Analyzed: 20-Jul-15						
Diesel Range Organics (C10-C28)	335	25.0	mg/kg	499	ND	67.1	38-132			
Surrogate: <i>o</i> -Terphenyl	28.0		"	39.9		70.0	50-200			
Matrix Spike Dup (1530003-MSD1)		Source: P507047-02		Prepared & Analyzed: 20-Jul-15						
Diesel Range Organics (C10-C28)	365	25.0	mg/kg	500	ND	73.0	38-132	8.59	20	
Surrogate: <i>o</i> -Terphenyl	30.9		"	40.0		77.2	50-200			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 15:06
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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
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Batch 1530004 - Purge and Trap EPA 5030A

Blank (1530004-BLK1)		Prepared: 20-Jul-15 Analyzed: 21-Jul-15								
Gasoline Range Organics (C6-C10)	ND	19.9	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.309		"	0.319		96.7	50-150			
LCS (1530004-BS1)		Prepared: 20-Jul-15 Analyzed: 21-Jul-15								
Gasoline Range Organics (C6-C10)	413	20.0	mg/kg	449		92.1	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.313		"	0.320		97.9	50-150			
Matrix Spike (1530004-MS1)		Source: P507053-01		Prepared: 20-Jul-15 Analyzed: 21-Jul-15						
Gasoline Range Organics (C6-C10)	424	20.0	mg/kg	448	ND	94.6	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.313		"	0.319		98.1	50-150			
Matrix Spike Dup (1530004-MSD1)		Source: P507053-01		Prepared: 20-Jul-15 Analyzed: 21-Jul-15						
Gasoline Range Organics (C6-C10)	440	19.9	mg/kg	448	ND	98.2	75-125	3.70	15	
Surrogate: 4-Bromochlorobenzene-FID	0.273		"	0.319		85.6	50-150			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 21-Jul-15 15:06
--	--	------------------------------

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

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Analytical Report

Report Summary

Client: Western Refining Southwest, Inc.

Chain Of Custody Number:

Samples Received: 7/22/2015 9:05:00AM

Job Number: 96012-0115

Work Order: P507064

Project Name/Location: Smith Lake- MP 33

Entire Report Reviewed By:

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

Date: 7/23/15

Tim Cain, Laboratory Manager

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 23-Jul-15 14:17
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS 34-1 N. Trench Wall	P507064-01A	Soil	07/21/15	07/22/15	Glass Jar, 4 oz.
	P507064-01B	Soil	07/21/15	07/22/15	Glass Jar, 4 oz.

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 23-Jul-15 14:17
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CS 34-1 N. Trench Wall
P507064-01 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1530022	07/22/15	07/23/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1530022	07/22/15	07/23/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1530022	07/22/15	07/23/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1530022	07/22/15	07/23/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1530022	07/22/15	07/23/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1530022	07/22/15	07/23/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1530022	07/22/15	07/23/15	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %		50-150	1530022	07/22/15	07/23/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1530022	07/22/15	07/23/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1530023	07/22/15	07/23/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		82.9 %		50-200	1530023	07/22/15	07/23/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		97.4 %		50-150	1530022	07/22/15	07/23/15	EPA 8015D	

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envirotech-inc.com
laboratory@envirotech-inc.com



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

Project Name: Smith Lake- MP 33
 Project Number: 96012-0115
 Project Manager: Kelly Robinson

Reported:
 23-Jul-15 14:17

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
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Batch 1530022 - Purge and Trap EPA 5030A

Blank (1530022-BLK1)

Prepared: 22-Jul-15 Analyzed: 23-Jul-15

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 0.319 " 0.320 99.5 50-150

LCS (1530022-BS1)

Prepared: 22-Jul-15 Analyzed: 23-Jul-15

Benzene	16.0	0.10	mg/kg	20.0		80.1	75-125			
Toluene	17.5	0.10	"	20.0		87.3	70-125			
Ethylbenzene	18.8	0.10	"	20.0		94.1	75-125			
p,m-Xylene	37.8	0.20	"	40.0		94.4	80-125			
o-Xylene	18.7	0.10	"	20.0		93.7	75-125			

Surrogate: 4-Bromochlorobenzene-PID 0.321 " 0.320 100 50-150

Matrix Spike (1530022-MS1)

Source: P507064-01

Prepared: 22-Jul-15 Analyzed: 23-Jul-15

Benzene	17.1	0.10	mg/kg	20.0	ND	85.5	75-125			
Toluene	18.7	0.10	"	20.0	ND	93.5	70-125			
Ethylbenzene	20.2	0.10	"	20.0	ND	101	75-125			
p,m-Xylene	40.4	0.20	"	40.0	ND	101	80-125			
o-Xylene	20.1	0.10	"	20.0	ND	100	75-125			

Surrogate: 4-Bromochlorobenzene-PID 0.321 " 0.320 100 50-150

Matrix Spike Dup (1530022-MSD1)

Source: P507064-01

Prepared: 22-Jul-15 Analyzed: 23-Jul-15

Benzene	16.5	0.10	mg/kg	20.0	ND	82.7	75-125	3.36	15	
Toluene	18.2	0.10	"	20.0	ND	90.9	70-125	2.87	15	
Ethylbenzene	19.6	0.10	"	20.0	ND	98.0	75-125	2.87	15	
p,m-Xylene	39.4	0.20	"	40.0	ND	98.4	80-125	2.57	15	
o-Xylene	19.6	0.10	"	20.0	ND	98.1	75-125	2.31	15	

Surrogate: 4-Bromochlorobenzene-PID 0.320 " 0.320 100 50-150

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 laboratory@envirotech-inc.com



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

Project Name: Smith Lake- MP 33
 Project Number: 96012-0115
 Project Manager: Kelly Robinson

Reported:
 23-Jul-15 14:17

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 1530022 - Purge and Trap EPA 5030A										
Blank (1530022-BLK1)				Prepared: 22-Jul-15 Analyzed: 23-Jul-15						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.310		"	0.320		96.9	50-150			
LCS (1530022-BS1)				Prepared: 22-Jul-15 Analyzed: 23-Jul-15						
Gasoline Range Organics (C6-C10)	400	20.0	mg/kg	449		89.0	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.313		"	0.320		97.9	50-150			
Matrix Spike (1530022-MS1)				Source: P507064-01		Prepared: 22-Jul-15 Analyzed: 23-Jul-15				
Gasoline Range Organics (C6-C10)	425	20.0	mg/kg	449	ND	94.7	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.311		"	0.320		97.1	50-150			
Matrix Spike Dup (1530022-MSD1)				Source: P507064-01		Prepared: 22-Jul-15 Analyzed: 23-Jul-15				
Gasoline Range Organics (C6-C10)	415	20.0	mg/kg	449	ND	92.5	75-125	2.38	15	
Surrogate: 4-Bromochlorobenzene-FID	0.312		"	0.320		97.4	50-150			

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

Project Name: Smith Lake- MP 33
Project Number: 96012-0115
Project Manager: Kelly Robinson

Reported:
23-Jul-15 14:17

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 1530023 - DRO Extraction EPA 3550M										
Blank (1530023-BLK1)					Prepared: 22-Jul-15 Analyzed: 23-Jul-15					
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: <i>o</i> -Terphenyl	46.9		"	40.0		117	50-200			
LCS (1530023-BS1)					Prepared: 22-Jul-15 Analyzed: 23-Jul-15					
Diesel Range Organics (C10-C28)	652	25.0	mg/kg	500		131	38-132			
Surrogate: <i>o</i> -Terphenyl	55.7		"	40.0		139	50-200			
Matrix Spike (1530023-MS1)					Source: P507064-01 Prepared: 22-Jul-15 Analyzed: 23-Jul-15					
Diesel Range Organics (C10-C28)	401	25.0	mg/kg	499	ND	80.4	38-132			
Surrogate: <i>o</i> -Terphenyl	32.4		"	39.9		81.1	50-200			
Matrix Spike Dup (1530023-MSD1)					Source: P507064-01 Prepared: 22-Jul-15 Analyzed: 23-Jul-15					
Diesel Range Organics (C10-C28)	452	25.0	mg/kg	500	ND	90.5	38-132	11.9	20	
Surrogate: <i>o</i> -Terphenyl	36.0		"	40.0		90.2	50-200			

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

Project Name: Smith Lake- MP 33
Project Number: 96012-0115
Project Manager: Kelly Robinson

Reported:
23-Jul-15 14:17

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

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CHAIN OF CUSTODY RECORD

14100

Client: Western Refining		Project Name / Location: Smith Lake				ANALYSIS / PARAMETERS														
Email results to: Kelly		Sampler Name: MATT Krakow				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.: 505-632-4166		Client No.: 96012-0115																		
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative															
					HgCl ₂	HCl														
CS 34-1 N.Trench <small>WALL</small>	7-21-15	10:10	P507064-01	2-4oz JAR															✓	✓
Relinquished by: (Signature) <i>Matt Krakow</i>				Date	Time	Received by: (Signature) <i>Daniel Zappi</i>				Date	Time									
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.																				
						PO # 12613182 13.4 13.3 (13.4)														
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Analytical Report

Report Summary

Client: Western Refining Southwest, Inc.
Chain Of Custody Number: 14102
Samples Received: 7/23/2015 8:44:00AM
Job Number: 96012-0115
Work Order: P507068
Project Name/Location: Smith Lake- MP 33

Entire Report Reviewed By:

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

Date: 7/24/15

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: Smith Lake- MP 33
Project Number: 96012-0115
Project Manager: Kelly Robinson

Reported:
24-Jul-15 14:02

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Spoil Pile Area	P507068-01A	Soil	07/22/15	07/23/15	Glass Jar, 4 oz.

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 24-Jul-15 14:02
--	--	------------------------------

Spoil Pile Area
P507068-01 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1530022	07/23/15	07/23/15	EPA 8015D	
Diesel Range Organics (C10-C28)	76.9	35.0	mg/kg	1	1530023	07/23/15	07/23/15	EPA 8015D	
Surrogate: <i>o</i> -Terphenyl		117 %		50-200	1530023	07/23/15	07/23/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		96.4 %		50-150	1530022	07/23/15	07/23/15	EPA 8015D	

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 24-Jul-15 14:02
--	--	------------------------------

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
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Batch 1530022 - Purge and Trap EPA 5030A

Blank (1530022-BLK1)		Prepared: 22-Jul-15 Analyzed: 23-Jul-15								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.310		"	0.320		96.9	50-150			
LCS (1530022-BS1)		Prepared: 22-Jul-15 Analyzed: 23-Jul-15								
Gasoline Range Organics (C6-C10)	400	20.0	mg/kg	449		89.0	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.313		"	0.320		97.9	50-150			
Matrix Spike (1530022-MS1)		Source: P507064-01		Prepared: 22-Jul-15 Analyzed: 23-Jul-15						
Gasoline Range Organics (C6-C10)	425	20.0	mg/kg	449	ND	94.7	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.311		"	0.320		97.1	50-150			
Matrix Spike Dup (1530022-MSD1)		Source: P507064-01		Prepared: 22-Jul-15 Analyzed: 23-Jul-15						
Gasoline Range Organics (C6-C10)	415	20.0	mg/kg	449	ND	92.5	75-125	2.38	15	
Surrogate: 4-Bromochlorobenzene-FID	0.312		"	0.320		97.4	50-150			

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Western Refining Southwest, Inc. PO Box 159 Bloomfield NM, 87413	Project Name: Smith Lake- MP 33 Project Number: 96012-0115 Project Manager: Kelly Robinson	Reported: 24-Jul-15 14:02
--	--	------------------------------

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 1530023 - DRO Extraction EPA 3550M										
Blank (1530023-BLK1) Prepared: 22-Jul-15 Analyzed: 23-Jul-15										
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: <i>o</i> -Terphenyl	46.9		"	40.0		117	50-200			
LCS (1530023-BS1) Prepared: 22-Jul-15 Analyzed: 23-Jul-15										
Diesel Range Organics (C10-C28)	652	25.0	mg/kg	500		131	38-132			
Surrogate: <i>o</i> -Terphenyl	55.7		"	40.0		139	50-200			
Matrix Spike (1530023-MS1) Source: P507064-01 Prepared: 22-Jul-15 Analyzed: 23-Jul-15										
Diesel Range Organics (C10-C28)	401	25.0	mg/kg	499	ND	80.4	38-132			
Surrogate: <i>o</i> -Terphenyl	32.4		"	39.9		81.1	50-200			
Matrix Spike Dup (1530023-MSD1) Source: P507064-01 Prepared: 22-Jul-15 Analyzed: 23-Jul-15										
Diesel Range Organics (C10-C28)	452	25.0	mg/kg	500	ND	90.5	38-132	11.9	20	
Surrogate: <i>o</i> -Terphenyl	36.0		"	40.0		90.2	50-200			

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

Project Name: Smith Lake- MP 33
Project Number: 96012-0115
Project Manager: Kelly Robinson

Reported:
24-Jul-15 14:02

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

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RUSH

CHAIN OF CUSTODY RECORD

14102

Client: Western Refining		Project Name / Location: Smith Lake - MP-33			ANALYSIS / PARAMETERS														
Email results to: Kelly, Matt, Bob		Sampler Name: Matt Krakow			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.: 505-632-4169		Client No.: 96012-0115																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No. Volume of Containers	Preservative		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	
					HgCl ₂	HCl													
Spoil Pile Area	7/22/15	7:00pm	P507068-011	4oz Jar			X											Y	Y
Relinquished by: (Signature) <i>[Signature]</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time								
				7/23/15	8:45					7-23	0844								
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.																			
										PO: 12613182 15.2									
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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 CONS. DIV DIST. 3

OCT 19 2015

Form C-141
Revised August 8, 2011

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

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 CR 4990 Bloomfield, NM	Telephone No. 505-632-4166
Facility Name West Line	Facility Type Crude Oil Transmission Line

Surface Owner Tribal	Mineral Owner	API No.
----------------------	---------------	---------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	24	20N	15W					

Latitude 35.9438888 Longitude -108.3772222

NATURE OF RELEASE

Type of Release Hydro test water	Volume of Release 357 barrels	Volume Recovered 0 barrels
Source of Release Pipe failure under test pressure	Date and Hour of Occurrence 10/02/2015 at approximately 11:00 am	Date and Hour of Discovery 10/02/2015 at approximately 11:00 am
Was Immediate Notice Given? Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not	If YES, To Whom? NMOCD (Cory Smith)	
By Whom? Kelly Robinson	Date and Hour 10/02/2015 at 11:46 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

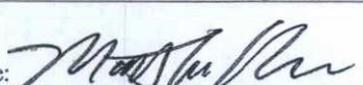
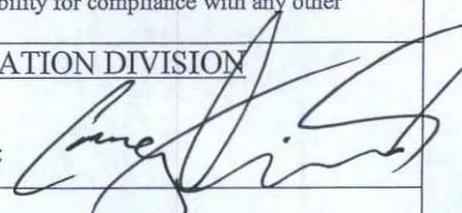
Describe Cause of Problem and Remedial Action Taken.*

Western Refining was performing a hydro test on the West Line and a pipe failure occurred. Western shut down the hydro test and isolated the pipeline.

Describe Area Affected and Cleanup Action Taken.*

The hydro test water did not migrate outside the pipeline right of way. Western Refining collected soil samples from the source of the spill. The analytical results showed TPH at 20 ppm and BTEX as non-detect which is below the lowest recommended remediation action level according to the NMOCD remediation guidelines. The hydro test water did not contain biocide or corrosion inhibitor. Western concluded from the assessment of the release event that excavation of the soils was not necessary.

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: Matthew Krakow	Approved by Environmental Specialist: 	
Title: Environmental Coordinator	Approval Date: 12/18/15	Expiration Date:
E-mail Address: matt.krakow@wnr.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/16/2015	Phone: 505-632-4169	

* Attach Additional Sheets If Necessary

#NCS 1535229 678

14



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

October 07, 2015

Kelly Robinson
Western Refining Southwest, Inc.
#50 CR 4990
Bloomfield, NM 87413
TEL: (505) 632-4166
FAX (505) 632-3911

RE: Westline Hydrotest

OrderNo.: 1510197

Dear Kelly Robinson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/6/2015 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1510197

Date Reported: 10/7/2015

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Hydrotest Release#2

Project: Westline Hydrotest

Collection Date: 10/2/2015 2:40:00 PM

Lab ID: 1510197-002

Matrix: MEOH (SOIL)

Received Date: 10/6/2015 8:11:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	10/6/2015 2:03:44 PM	21688
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	20	9.8		mg/Kg	1	10/6/2015 2:05:08 PM	21680
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/6/2015 2:05:08 PM	21680
Surr: DNOP	105	57.9-140		%REC	1	10/6/2015 2:05:08 PM	21680
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	10/6/2015 12:38:23 PM	21666
Surr: BFB	92.5	75.4-113		%REC	1	10/6/2015 12:38:23 PM	21666
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.041		mg/Kg	1	10/6/2015 12:38:23 PM	21666
Toluene	ND	0.041		mg/Kg	1	10/6/2015 12:38:23 PM	21666
Ethylbenzene	ND	0.041		mg/Kg	1	10/6/2015 12:38:23 PM	21666
Xylenes, Total	ND	0.082		mg/Kg	1	10/6/2015 12:38:23 PM	21666
Surr: 4-Bromofluorobenzene	107	80-120		%REC	1	10/6/2015 12:38:23 PM	21666

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
D	Sample Diluted Due to Matrix	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	P Sample pH Not In Range
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 1510197

Date Reported: 10/7/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Hydrotest Water #2

Project: Westline Hydrotest

Collection Date: 10/2/2015 2:45:00 PM

Lab ID: 1510197-003

Matrix: AQUEOUS

Received Date: 10/6/2015 8:11:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	5.4	5.0		mg/L	10	10/6/2015 11:47:13 AM	R29331

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510197

07-Oct-15

Client: Western Refining Southwest, Inc.

Project: Westline Hydrotest

Sample ID	MB-21688	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	21688	RunNo:	29358					
Prep Date:	10/6/2015	Analysis Date:	10/6/2015	SeqNo:	892718	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-21688	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	21688	RunNo:	29358					
Prep Date:	10/6/2015	Analysis Date:	10/6/2015	SeqNo:	892719	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.3	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510197

07-Oct-15

Client: Western Refining Southwest, Inc.

Project: Westline Hydrotest

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R29331	RunNo:	29331					
Prep Date:		Analysis Date:	10/6/2015	SeqNo:	891919	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R29331	RunNo:	29331					
Prep Date:		Analysis Date:	10/6/2015	SeqNo:	891920	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	98.4	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510197

07-Oct-15

Client: Western Refining Southwest, Inc.

Project: Westline Hydrotest

Sample ID	MB-21648	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	21648	RunNo:	29273					
Prep Date:	10/4/2015	Analysis Date:	10/4/2015	SeqNo:	889464	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.7		10.00		97.2	57.9	140			

Sample ID	LCS-21648	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	21648	RunNo:	29273					
Prep Date:	10/4/2015	Analysis Date:	10/4/2015	SeqNo:	889466	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		100	57.9	140			

Sample ID	MB-21652	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	21652	RunNo:	29273					
Prep Date:	10/5/2015	Analysis Date:	10/5/2015	SeqNo:	890900	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.9		10.00		78.7	57.9	140			

Sample ID	LCS-21652	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	21652	RunNo:	29273					
Prep Date:	10/5/2015	Analysis Date:	10/5/2015	SeqNo:	890901	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		94.7	57.9	140			

Sample ID	MB-21629	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	21629	RunNo:	29273					
Prep Date:	10/2/2015	Analysis Date:	10/6/2015	SeqNo:	892312	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		103	57.9	140			

Sample ID	MB-21680	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	21680	RunNo:	29273					
Prep Date:	10/6/2015	Analysis Date:	10/6/2015	SeqNo:	892313	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.2	57.9	140			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510197
07-Oct-15

Client: Western Refining Southwest, Inc.
Project: Westline Hydrotest

Sample ID	LCS-21629	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	21629	RunNo:	29273					
Prep Date:	10/2/2015	Analysis Date:	10/6/2015	SeqNo:	892314	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		107	57.9	140			

Sample ID	LCS-21680	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	21680	RunNo:	29273					
Prep Date:	10/6/2015	Analysis Date:	10/6/2015	SeqNo:	892315	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	84.1	57.4	139			
Surr: DNOP	4.8		5.000		95.5	57.9	140			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1510197
 07-Oct-15

Client: Western Refining Southwest, Inc.
Project: Westline Hydrotest

Sample ID MB-21666	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 21666		RunNo: 29332							
Prep Date: 10/5/2015	Analysis Date: 10/6/2015		SeqNo: 892323				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		86.6	75.4	113			

Sample ID LCS-21666	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 21666		RunNo: 29332							
Prep Date: 10/5/2015	Analysis Date: 10/6/2015		SeqNo: 892324				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	79.6	122			
Surr: BFB	940		1000		94.1	75.4	113			

Sample ID MB-21665	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 21665		RunNo: 29332							
Prep Date: 10/5/2015	Analysis Date: 10/6/2015		SeqNo: 892336				Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	880		1000		88.5	75.4	113			

Sample ID LCS-21665	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 21665		RunNo: 29332							
Prep Date: 10/5/2015	Analysis Date: 10/6/2015		SeqNo: 892337				Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	950		1000		95.5	75.4	113			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510197
07-Oct-15

Client: Western Refining Southwest, Inc.
Project: Westline Hydrotest

Sample ID	MB-21666	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	21666	RunNo:	29332					
Prep Date:	10/5/2015	Analysis Date:	10/6/2015	SeqNo:	892366	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID	LCS-21666	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	21666	RunNo:	29332					
Prep Date:	10/5/2015	Analysis Date:	10/6/2015	SeqNo:	892368	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.050	1.000	0	96.7	80	120			
Toluene	0.94	0.050	1.000	0	94.3	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.2	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID	MB-21665	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	21665	RunNo:	29332					
Prep Date:	10/5/2015	Analysis Date:	10/6/2015	SeqNo:	892380	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID	LCS-21665	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	21665	RunNo:	29332					
Prep Date:	10/5/2015	Analysis Date:	10/6/2015	SeqNo:	892381	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Western Refining Southw Work Order Number: 1510197 RptNo: 1

Received by/date: *[Signature]* 10/06/15
 Logged By: Lindsay Mangin 10/6/2015 8:11:00 AM *[Signature]*
 Completed By: Lindsay Mangin 10/6/2015 8:48:30 AM *[Signature]*
 Reviewed By: CS 10/06/15

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° 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 # of preserved bottles checked for pH: _____
(~2 or >12 unless noted)
- 13. Are matrices correctly identified on Chain of Custody? Yes No Adjusted? _____
- 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 Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes			

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

OCT 19 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 CR 4990 Bloomfield, NM	Telephone No. 505-632-4166	
Facility Name West Line	Facility Type Crude Oil Transmission Line	
Surface Owner Tribal	Mineral Owner	API No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	7	21N	14W					

CS

Latitude 36.06750 Longitude -108.36330

NATURE OF RELEASE

Type of Release Hydro test water	Volume of Release 357 barrels	Volume Recovered 0 barrels
Source of Release Pipe failure under test pressure	Date and Hour of Occurrence 10/04/2015 at approximately 9:20 am	Date and Hour of Discovery 10/04/2015 at approximately 9:20 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD (Cory Smith)	
By Whom? Kelly Robinson	Date and Hour 10/05/2015 at 8:34 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

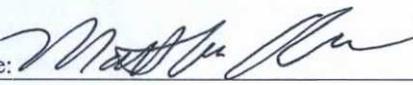
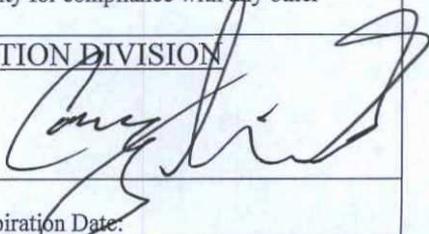
Describe Cause of Problem and Remedial Action Taken.*

Western Refining was performing a hydro test on the West Line and a pipe failure occurred. Western shut down the hydro test and isolated the pipeline.

Describe Area Affected and Cleanup Action Taken.*

Western Refining collected soil samples from the source of the spill. The analytical results showed TPH and BTEX as non-detect which is below the lowest recommended remediation action level according to the NMOCD remediation guidelines. The hydro test water did not contain biocide or corrosion inhibitor. Western concluded from the assessment of the release event that excavation of the soils was not necessary.

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: Matthew Krakow	Approved by Environmental Specialist: 	
Title: Environmental Coordinator	Approval Date: 12/18/15	Expiration Date:
E-mail Address: matt.krakow@wnr.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/16/2015	Phone: 505-632-4169	

* Attach Additional Sheets If Necessary

#NCS 15 352 302 59

12



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

October 12, 2015

Kelly Robinson

Western Refining Southwest, Inc.

#50 CR 4990

Bloomfield, NM 87413

TEL: (505) 632-4166

FAX (505) 632-3911

RE: West Line

OrderNo.: 1510448

Dear Kelly Robinson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 10/8/2015 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1510448

Date Reported: 10/12/2015

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Hydro Test #5

Project: West Line

Collection Date: 10/4/2015 2:55:00 PM

Lab ID: 1510448-001

Matrix: SOIL

Received Date: 10/8/2015 3:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	10/9/2015 11:06:50 AM	21767
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/9/2015 9:26:26 AM	21758
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/9/2015 9:26:26 AM	21758
Surr: DNOP	98.9	57.9-140		%REC	1	10/9/2015 9:26:26 AM	21758
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/9/2015 11:30:58 AM	21739
Surr: BFB	88.6	75.4-113		%REC	1	10/9/2015 11:30:58 AM	21739
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	10/9/2015 11:30:58 AM	21739
Toluene	ND	0.050		mg/Kg	1	10/9/2015 11:30:58 AM	21739
Ethylbenzene	ND	0.050		mg/Kg	1	10/9/2015 11:30:58 AM	21739
Xylenes, Total	ND	0.10		mg/Kg	1	10/9/2015 11:30:58 AM	21739
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	10/9/2015 11:30:58 AM	21739

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
	D Sample Diluted Due to Matrix	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	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1510448
 12-Oct-15

Client: Western Refining Southwest, Inc.
Project: West Line

Sample ID	MB-21767	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	21767	RunNo:	29458					
Prep Date:	10/9/2015	Analysis Date:	10/9/2015	SeqNo:	895859	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-21767	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	21767	RunNo:	29458					
Prep Date:	10/9/2015	Analysis Date:	10/9/2015	SeqNo:	895860	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.0	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510448

12-Oct-15

Client: Western Refining Southwest, Inc.
Project: West Line

Sample ID	MB-21652	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	21652	RunNo:	29273					
Prep Date:	10/5/2015	Analysis Date:	10/5/2015	SeqNo:	890900	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.9		10.00		78.7	57.9	140			

Sample ID	LCS-21652	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	21652	RunNo:	29273					
Prep Date:	10/5/2015	Analysis Date:	10/5/2015	SeqNo:	890901	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		94.7	57.9	140			

Sample ID	MB-21679	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	21679	RunNo:	29273					
Prep Date:	10/6/2015	Analysis Date:	10/8/2015	SeqNo:	894236	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		105	57.9	140			

Sample ID	LCS-21679	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	21679	RunNo:	29273					
Prep Date:	10/6/2015	Analysis Date:	10/8/2015	SeqNo:	894238	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.6		5.000		112	57.9	140			

Sample ID	MB-21758	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	21758	RunNo:	29273					
Prep Date:	10/9/2015	Analysis Date:	10/9/2015	SeqNo:	894850	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		101	57.9	140			

Sample ID	LCS-21758	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	21758	RunNo:	29273					
Prep Date:	10/9/2015	Analysis Date:	10/9/2015	SeqNo:	894851	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.0	57.4	139			
Surr: DNOP	4.8		5.000		96.5	57.9	140			

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level.
 - D Sample Diluted Due to Matrix
 - H Holding times for preparation or analysis exceeded
 - ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits
 - S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1510448
 12-Oct-15

Client: Western Refining Southwest, Inc.
Project: West Line

Sample ID	1510448-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	Hydro Test #5	Batch ID:	21758	RunNo:	29273					
Prep Date:	10/9/2015	Analysis Date:	10/9/2015	SeqNo:	894987	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.9	49.46	0	88.2	42.3	146	6.85	28.9	
Surr: DNOP	4.8		4.946		97.7	57.9	140	0	0	

Sample ID	1510448-001AMS	SampType:	MS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	Hydro Test #5	Batch ID:	21758	RunNo:	29273					
Prep Date:	10/9/2015	Analysis Date:	10/9/2015	SeqNo:	894989	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.7	48.45	0	84.1	42.3	146			
Surr: DNOP	4.6		4.845		95.2	57.9	140			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510448

12-Oct-15

Client: Western Refining Southwest, Inc.

Project: West Line

Sample ID	MB-21739	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	21739	RunNo:	29422					
Prep Date:	10/8/2015	Analysis Date:	10/9/2015	SeqNo:	895535	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	860		1000		85.9	75.4	113			

Sample ID	LCS-21739	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	21739	RunNo:	29422					
Prep Date:	10/8/2015	Analysis Date:	10/9/2015	SeqNo:	895536	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	97.8	79.6	122			
Surr: BFB	940		1000		94.1	75.4	113			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | 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 | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | |

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1510448
 12-Oct-15

Client: Western Refining Southwest, Inc.
Project: West Line

Sample ID	MB-21739	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	21739	RunNo:	29422					
Prep Date:	10/8/2015	Analysis Date:	10/9/2015	SeqNo:	895553	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID	LCS-21739	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	21739	RunNo:	29422					
Prep Date:	10/8/2015	Analysis Date:	10/9/2015	SeqNo:	895554	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.050	1.000	0	92.6	80	120			
Toluene	0.91	0.050	1.000	0	91.4	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.3	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID	1510448-001AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	Hydro Test #5	Batch ID:	21739	RunNo:	29422					
Prep Date:	10/8/2015	Analysis Date:	10/9/2015	SeqNo:	895555	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	0.9930	0	103	69.6	136			
Toluene	1.0	0.050	0.9930	0	105	76.2	134			
Ethylbenzene	1.1	0.050	0.9930	0	108	75.8	137			
Xylenes, Total	3.2	0.099	2.979	0	108	78.9	133			
Surr: 4-Bromofluorobenzene	1.1		0.9930		111	80	120			

Sample ID	1510448-001AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	Hydro Test #5	Batch ID:	21739	RunNo:	29422					
Prep Date:	10/8/2015	Analysis Date:	10/9/2015	SeqNo:	895556	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	0.9901	0	103	69.6	136	0.873	20	
Toluene	1.0	0.050	0.9901	0	101	76.2	134	3.33	20	
Ethylbenzene	1.0	0.050	0.9901	0	103	75.8	137	5.16	20	
Xylenes, Total	3.0	0.099	2.970	0	102	78.9	133	5.69	20	
Surr: 4-Bromofluorobenzene	1.1		0.9901		110	80	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Western Refining Southw

Work Order Number: 1510448

ReptNo: 1

Received by/date:

AT 10/08/15

Logged By: Lindsay Mangin

10/8/2015 3:00:00 PM

Lindsay Mangin

Completed By: Lindsay Mangin

10/8/2015 3:25:29 PM

Lindsay Mangin

Reviewed By:

CS 10/08/15

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? Client

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° 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: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.0	Good	Not Present			

Chain-of-Custody Record

Client: WESTERN REFINING

Mailing Address: 111 CR 4990

Bloomfield, NM 87413

Phone #: 505 632-4166

Email or Fax #: Kelly.Robinson@wrr.com

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

Accreditation:
 NELAP Other _____

EDD (Type) _____

Turn-Around Time:

Standard Rush ASAP

Project Name: WEST LINE

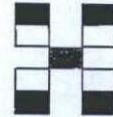
Project #:

Project Manager: Kelly Robinson

Sampler: Kelly Robinson

On Ice: Yes No

Sample Temperature: 3.0



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + MIBK + PCE (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	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)	CHLORIDES	Air Bubbles (Y or N)
4/15	14:55	Soil	Hydro Test #5	(1) 4oz	-	1510448 -001	X		X									X	
4/15	15:00	Soil	Background #5	(1) 4oz	-	-002	X		X									X	

Date: 4/15 Time: 1500 Relinquished by: Kelly Robinson

Received by: [Signature] Date: 4/10/03 Time: 1500

Remarks: HOLD BACKGROUND SAMPLE

Date: _____ Time: _____ Relinquished by: _____

Received by: _____ Date: _____ Time: _____

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 noted on the analytical report.

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

OIL CONS. DIV DIST. 3

OCT 19 2015

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

Form C-141
Revised August 8, 2011

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Western Refining Pipeline, LLC.	Contact Kelly Robinson
Address 111 CR 4990 Bloomfield, NM 87413	Telephone No. 505-632-4166
Facility Name West Line	Facility Type Crude Oil Transmission Line

Surface Owner Tribal	Mineral Owner	API No.
----------------------	---------------	---------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A CS	18	20N	14W					

Latitude_35.96916666_ Longitude_-108.3758333__

NATURE OF RELEASE

Type of Release Hydro test water	Volume of Release 595 barrels	Volume Recovered 0 barrels
Source of Release Pipe failure under test pressure	Date and Hour of Occurrence 10/01/2015 at 11:30 am	Date and Hour of Discovery 10/01/2015 at 11:30 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD (Cory Smith)	
By Whom? Kelly Robinson	Date and Hour 10/02/2015 at 11:00 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

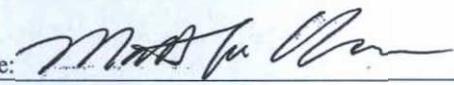
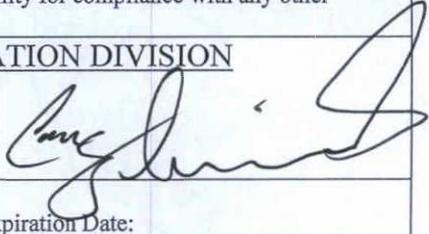
Describe Cause of Problem and Remedial Action Taken.*

Western Refining was performing a hydro test on the west line and a pipe failure occurred. Western shut down the hydro test and isolated the pipeline.

Describe Area Affected and Cleanup Action Taken.*

The hydro test water did not migrate outside the pipeline right of way. Western Refining collected soil samples from the source of the spill. The analytical results showed TPH and BTEX as non-detect and thus below the lowest recommended remediation action levels according to the NMOCD remediation guidelines. The hydro test water did not contain any biocide or corrosion inhibitor. Western concluded from the assessment of the release event that remediation of the site was not necessary.

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: Matthew Krakow	Approved by Environmental Specialist: 	
Title: Environmental Coordinator	Approval Date: 12/18/15	Expiration Date:
E-mail Address: matt.krakow@wnr.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/15/2015	Phone: 505-632-4169	

* Attach Additional Sheets If Necessary

#NCS 1535230589

18



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

October 07, 2015

Kelly Robinson
Western Refining Southwest, Inc.
#50 CR 4990
Bloomfield, NM 87413
TEL: (505) 632-4166
FAX (505) 632-3911

RE: Westline Hydrotest

OrderNo.: 1510097

Dear Kelly Robinson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/3/2015 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.

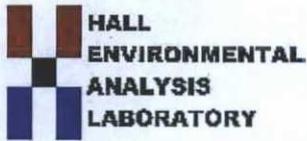
Please don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109



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

Case Narrative

WO#: 1510097

Date: 10/7/2015

CLIENT: Western Refining Southwest, Inc.

Project: Westline Hydrotest

Analytical Notes Regarding the water samples for BTEX/GRO/DRO/MRO:

The sample named "Hydrowater" was not received in the proper containers for BTEX/GRO/DRO/MRO.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc. **Client Sample ID:** Hydrowater Soil
Project: Westline Hydrotest **Collection Date:** 10/1/2015 4:10:00 PM
Lab ID: 1510097-001 **Matrix:** MEOH (SOIL) **Received Date:** 10/3/2015 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SRM
Chloride	ND	30		mg/Kg	20	10/5/2015 11:17:50 AM	21662
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/5/2015 1:40:29 AM	21649
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/5/2015 1:40:29 AM	21649
Surr: DNOP	101	57.9-140		%REC	1	10/5/2015 1:40:29 AM	21649
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	10/5/2015 2:37:28 PM	21639
Surr: BFB	88.5	75.4-113		%REC	1	10/5/2015 2:37:28 PM	21639
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.035		mg/Kg	1	10/5/2015 2:37:28 PM	21639
Toluene	ND	0.035		mg/Kg	1	10/5/2015 2:37:28 PM	21639
Ethylbenzene	ND	0.035		mg/Kg	1	10/5/2015 2:37:28 PM	21639
Xylenes, Total	ND	0.071		mg/Kg	1	10/5/2015 2:37:28 PM	21639
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	10/5/2015 2:37:28 PM	21639

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
	D Sample Diluted Due to Matrix	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	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Hydrowater

Project: Westline Hydrotest

Collection Date: 10/1/2015 4:30:00 PM

Lab ID: 1510097-002

Matrix: AQUEOUS

Received Date: 10/3/2015 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	3.7	2.5		mg/L	5	10/5/2015 11:44:07 AM	R29301
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: KJH
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/5/2015 9:57:06 AM	21651
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/5/2015 9:57:06 AM	21651
Surr: DNOP	117	72-136		%REC	1	10/5/2015 9:57:06 AM	21651
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	0.89	0.050		mg/L	1	10/5/2015 11:54:47 AM	A29302
Surr: BFB	113	57.8-137		%REC	1	10/5/2015 11:54:47 AM	A29302
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	18	1.0		µg/L	1	10/5/2015 11:54:47 AM	R29302
Toluene	34	1.0		µg/L	1	10/5/2015 11:54:47 AM	R29302
Ethylbenzene	5.2	1.0		µg/L	1	10/5/2015 11:54:47 AM	R29302
Xylenes, Total	32	2.0		µg/L	1	10/5/2015 11:54:47 AM	R29302
Surr: 4-Bromofluorobenzene	119	65-127		%REC	1	10/5/2015 11:54:47 AM	R29302

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
	D Sample Diluted Due to Matrix	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	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510097
07-Oct-15

Client: Western Refining Southwest, Inc.
Project: Westline Hydrotest

Sample ID	MB-21662	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	21662	RunNo:	29327					
Prep Date:	10/5/2015	Analysis Date:	10/5/2015	SeqNo:	891486	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-21662	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	21662	RunNo:	29327					
Prep Date:	10/5/2015	Analysis Date:	10/5/2015	SeqNo:	891487	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.3	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510097

07-Oct-15

Client: Western Refining Southwest, Inc.

Project: Westline Hydrotest

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R29301	RunNo:	29301					
Prep Date:		Analysis Date:	10/5/2015	SeqNo:	890635	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R29301	RunNo:	29301					
Prep Date:		Analysis Date:	10/5/2015	SeqNo:	890636	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	5.0	0.50	5.000	0	99.2	90	110			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | 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 | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510097
07-Oct-15

Client: Western Refining Southwest, Inc.
Project: Westline Hydrotest

Sample ID	MB-21648	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	21648	RunNo:	29273					
Prep Date:	10/4/2015	Analysis Date:	10/4/2015	SeqNo:	889464	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.7		10.00		97.2	57.9	140			

Sample ID	MB-21649	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	21649	RunNo:	29273					
Prep Date:	10/4/2015	Analysis Date:	10/4/2015	SeqNo:	889465	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		97.2	57.9	140			

Sample ID	LCS-21648	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	21648	RunNo:	29273					
Prep Date:	10/4/2015	Analysis Date:	10/4/2015	SeqNo:	889466	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		100	57.9	140			

Sample ID	LCS-21649	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	21649	RunNo:	29273					
Prep Date:	10/4/2015	Analysis Date:	10/4/2015	SeqNo:	889467	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.5	57.4	139			
Surr: DNOP	5.0		5.000		99.4	57.9	140			

Sample ID	MB-21652	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	21652	RunNo:	29273					
Prep Date:	10/5/2015	Analysis Date:	10/5/2015	SeqNo:	890900	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.9		10.00		78.7	57.9	140			

Sample ID	LCS-21652	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	21652	RunNo:	29273					
Prep Date:	10/5/2015	Analysis Date:	10/5/2015	SeqNo:	890901	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		94.7	57.9	140			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1510097
 07-Oct-15

Client: Western Refining Southwest, Inc.
Project: Westline Hydrotest

Sample ID MB-21629	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 21629		RunNo: 29273							
Prep Date: 10/2/2015	Analysis Date: 10/6/2015		SeqNo: 892312				Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		103	57.9	140			

Sample ID MB-21680	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 21680		RunNo: 29273							
Prep Date: 10/6/2015	Analysis Date: 10/6/2015		SeqNo: 892313				Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.6		10.00		96.2	57.9	140			

Sample ID LCS-21629	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 21629		RunNo: 29273							
Prep Date: 10/2/2015	Analysis Date: 10/6/2015		SeqNo: 892314				Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		107	57.9	140			

Sample ID LCS-21680	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 21680		RunNo: 29273							
Prep Date: 10/6/2015	Analysis Date: 10/6/2015		SeqNo: 892315				Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.8		5.000		95.5	57.9	140			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510097

07-Oct-15

Client: Western Refining Southwest, Inc.

Project: Westline Hydrotest

Sample ID	MB-21651	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range					
Client ID:	PBW	Batch ID:	21651	RunNo:	29273					
Prep Date:	10/5/2015	Analysis Date:	10/5/2015	SeqNo:	890895	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.1		1.000		110	72	136			

Sample ID	LCS-21651	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range					
Client ID:	LCSW	Batch ID:	21651	RunNo:	29273					
Prep Date:	10/5/2015	Analysis Date:	10/5/2015	SeqNo:	890896	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.3	1.0	5.000	0	105	52.4	154			
Surr: DNOP	0.57		0.5000		114	72	136			

Sample ID	1510097-002BMS	SampType:	MS	TestCode:	EPA Method 8015M/D: Diesel Range					
Client ID:	Hydrowater	Batch ID:	21651	RunNo:	29273					
Prep Date:	10/5/2015	Analysis Date:	10/5/2015	SeqNo:	890897	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.2	1.0	5.000	0	105	41.3	177			
Surr: DNOP	0.55		0.5000		111	72	136			

Sample ID	1510097-002BMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range					
Client ID:	Hydrowater	Batch ID:	21651	RunNo:	29273					
Prep Date:	10/5/2015	Analysis Date:	10/5/2015	SeqNo:	890898	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.5	1.0	5.000	0	111	-94.6	317	5.74	22.1	
Surr: DNOP	0.55		0.5000		110	72	136	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510097

07-Oct-15

Client: Western Refining Southwest, Inc.

Project: Westline Hydrotest

Sample ID	MB-21639	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	21639	RunNo:	29302					
Prep Date:	10/2/2015	Analysis Date:	10/5/2015	SeqNo:	890915	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	860		1000		86.4	75.4	113			

Sample ID	LCS-21639	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	21639	RunNo:	29302					
Prep Date:	10/2/2015	Analysis Date:	10/5/2015	SeqNo:	890916	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	94.7	79.6	122			
Surr: BFB	930		1000		92.9	75.4	113			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510097

07-Oct-15

Client: Western Refining Southwest, Inc.

Project: Westline Hydrotest

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBW	Batch ID:	A29302	RunNo:	29302					
Prep Date:		Analysis Date:	10/5/2015	SeqNo:	890937	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		88.4	57.8	137			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSW	Batch ID:	A29302	RunNo:	29302					
Prep Date:		Analysis Date:	10/5/2015	SeqNo:	890938	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.49	0.050	0.5000	0	97.3	80	120			
Surr: BFB	19		20.00		95.2	57.8	137			

Sample ID	1510097-002AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	Hydrowater	Batch ID:	A29302	RunNo:	29302					
Prep Date:		Analysis Date:	10/5/2015	SeqNo:	890945	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	1.4	0.050	0.5000	0.8892	99.7	70	130			
Surr: BFB	24		20.00		120	57.8	137			

Sample ID	1510097-002AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	Hydrowater	Batch ID:	A29302	RunNo:	29302					
Prep Date:		Analysis Date:	10/5/2015	SeqNo:	890946	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	1.3	0.050	0.5000	0.8892	90.4	70	130	3.42	20	
Surr: BFB	24		20.00		119	57.8	137	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510097
07-Oct-15

Client: Western Refining Southwest, Inc.
Project: Westline Hydrotect

Sample ID	MB-21639	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	21639	RunNo:	29302					
Prep Date:	10/2/2015	Analysis Date:	10/5/2015	SeqNo:	890952	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID	LCS-21639	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	21639	RunNo:	29302					
Prep Date:	10/2/2015	Analysis Date:	10/5/2015	SeqNo:	890953	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	95.9	80	120			
Toluene	0.92	0.050	1.000	0	92.3	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.6	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Western Refining Southw Work Order Number: 1510097 RcptNo: 1

Received by/date: *[Signature]* 10/13/15

Logged By: Lindsay Mangin 10/3/2015 9:25:00 AM *[Signature]*

Completed By: Lindsay Mangin 10/3/2015 9:42:43 AM *[Signature]*

Reviewed By: *lam* 10/4/15

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° C to 6.0°C Yes No NA
 - 6. Sample(s) in proper container(s)? ~~Yes~~ No *(-022B)*
 - 7. Sufficient sample volume for indicated test(s)? *FOR RIEX (6.00 ANALYSIS): POURED FROM 500ml HDPE INTO 5.0ml HCl vials. FOR DZO ANALYSIS: POURED FROM 500ml HDPE INTO A 250ml Amber Glass.* Yes No NA
 - 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: _____ Date: _____

By Whom: _____ Via: eMail Phone Fax In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good	Yes			

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510097
07-Oct-15

Client: Western Refining Southwest, Inc.
Project: Westline Hydrotest

Sample ID	SampType	TestCode: EPA Method 8021B: Volatiles								
5ML RB	MBLK									
Client ID: PBW	Batch ID: R29302	RunNo: 29302								
Prep Date:	Analysis Date: 10/5/2015	SeqNo: 890963 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5								
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
Surr: 4-Bromofluorobenzene	21		20.00		103	65	127			

Sample ID	SampType	TestCode: EPA Method 8021B: Volatiles								
100NG BTEX LCS	LCS									
Client ID: LCSW	Batch ID: R29302	RunNo: 29302								
Prep Date:	Analysis Date: 10/5/2015	SeqNo: 890964 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	20	2.5	20.00	0	99.9	58.9	149			
Benzene	20	1.0	20.00	0	98.1	80	120			
Toluene	20	1.0	20.00	0	97.5	80	120			
Ethylbenzene	19	1.0	20.00	0	97.5	80	120			
Xylenes, Total	59	2.0	60.00	0	97.5	80	120			
1,2,4-Trimethylbenzene	19	1.0	20.00	0	97.1	80	120			
1,3,5-Trimethylbenzene	19	1.0	20.00	0	96.4	80	120			
Surr: 4-Bromofluorobenzene	22		20.00		110	65	127			

Sample ID	SampType	TestCode: EPA Method 8021B: Volatiles								
1510102-002AMSD	MSD									
Client ID: BatchQC	Batch ID: R29302	RunNo: 29302								
Prep Date:	Analysis Date: 10/5/2015	SeqNo: 890971 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	22	2.5	20.00	0	109	47.6	162	3.39	20	
Benzene	20	1.0	20.00	0	99.3	50.9	146	2.74	20	
Toluene	20	1.0	20.00	0.3532	96.9	71.7	136	1.49	20	
Ethylbenzene	20	1.0	20.00	0.3610	96.5	74.2	132	2.25	20	
Xylenes, Total	59	2.0	60.00	0	97.5	75.7	130	1.65	20	
1,2,4-Trimethylbenzene	19	1.0	20.00	0	96.3	76.8	130	3.22	20	
1,3,5-Trimethylbenzene	19	1.0	20.00	0.3066	94.2	80	128	2.49	20	
Surr: 4-Bromofluorobenzene	23		20.00		113	65	127	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

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 CONS. DIV DIST. 3

OCT 19 2015

Form C-141
Revised August 8, 2011

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

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 CR 4990 Bloomfield, NM	Telephone No. 505-632-4166
Facility Name West Line	Facility Type Crude Oil Transmission Line

Surface Owner Tribal	Mineral Owner	API No.
----------------------	---------------	---------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	15	19N	15W					

Latitude 35.87510 Longitude -108.41332

NATURE OF RELEASE

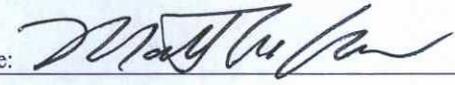
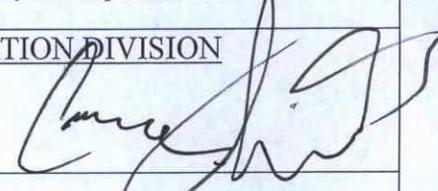
Type of Release Hydro test water	Volume of Release 513 barrels	Volume Recovered 0 barrels
Source of Release Pipe failure under test pressure	Date and Hour of Occurrence 10/03/2015 at approximately 9:30 am	Date and Hour of Discovery 10/03/2015 at approximately 9:30 am
Was Immediate Notice Given? Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not	If YES, To Whom? NMOCD (Cory Smith)	
By Whom? Kelly Robinson	Date and Hour 10/02/2015 at 9:00 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Western Refining was performing a hydro test on the West Line and a pipe failure occurred. Western shut down the hydro test and isolated the pipeline.

Describe Area Affected and Cleanup Action Taken.*
Western Refining collected soil samples from the source of the spill. The analytical results showed TPH at 190 ppm and BTEX as non-detect. Western ranked the site at 0 according to the recommended remediation action level according to the NMOCD remediation guidelines. The hydro test water did not contain biocide or corrosion inhibitor. Western concluded from the assessment of the release event that excavation of the soils was not necessary.

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: Matthew Krakow	Approved by Environmental Specialist: 	
Title: Environmental Coordinator	Approval Date: 12/18/15	Expiration Date:
E-mail Address: matt.krakow@wnr.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/16/2015	Phone: 505-632-4169	

* Attach Additional Sheets If Necessary

#NCS 15 35229 044

16



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

October 08, 2015

Kelly Robinson

Western Refining Southwest, Inc.

#50 CR 4990

Bloomfield, NM 87413

TEL: (505) 632-4166

FAX (505) 632-3911

RE: Westline Hydrotect

OrderNo.: 1510196

Dear Kelly Robinson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/6/2015 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Southwest, Inc.**Client Sample ID:** Hydrotest Release #4**Project:** Westline Hydrotest**Collection Date:** 10/3/2015 2:15:00 PM**Lab ID:** 1510196-001**Matrix:** MEOH (SOIL)**Received Date:** 10/6/2015 8:11:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	10/6/2015 1:26:31 PM	21688
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	130	9.7		mg/Kg	1	10/6/2015 1:37:47 PM	21680
Motor Oil Range Organics (MRO)	60	49		mg/Kg	1	10/6/2015 1:37:47 PM	21680
Surr: DNOP	97.6	57.9-140		%REC	1	10/6/2015 1:37:47 PM	21680
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	10/6/2015 10:19:12 AM	21666
Surr: BFB	90.9	75.4-113		%REC	1	10/6/2015 10:19:12 AM	21666
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.032		mg/Kg	1	10/6/2015 10:19:12 AM	21666
Toluene	ND	0.032		mg/Kg	1	10/6/2015 10:19:12 AM	21666
Ethylbenzene	ND	0.032		mg/Kg	1	10/6/2015 10:19:12 AM	21666
Xylenes, Total	ND	0.064		mg/Kg	1	10/6/2015 10:19:12 AM	21666
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	10/6/2015 10:19:12 AM	21666

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
D	Sample Diluted Due to Matrix	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	P Sample pH Not In Range
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1510196

Date Reported: 10/8/2015

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Hydrotest Background #4

Project: Westline Hydrotest

Collection Date: 10/3/2015 2:45:00 PM

Lab ID: 1510196-002

Matrix: SOIL

Received Date: 10/6/2015 8:11:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	10/7/2015 5:09:12 PM	21726
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/7/2015 12:32:11 PM	21724
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	10/7/2015 12:32:11 PM	21724
Surr: DNOP	36.8	57.9-140	S	%REC	1	10/7/2015 12:32:11 PM	21724
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	10/8/2015 3:46:49 AM	21694
Surr: BFB	89.3	75.4-113		%REC	1	10/8/2015 3:46:49 AM	21694
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.043		mg/Kg	1	10/8/2015 3:46:49 AM	21694
Toluene	ND	0.043		mg/Kg	1	10/8/2015 3:46:49 AM	21694
Ethylbenzene	ND	0.043		mg/Kg	1	10/8/2015 3:46:49 AM	21694
Xylenes, Total	ND	0.086		mg/Kg	1	10/8/2015 3:46:49 AM	21694
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	10/8/2015 3:46:49 AM	21694

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
	D Sample Diluted Due to Matrix	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	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Southwest, Inc.**Client Sample ID:** Hydrotest Water #4**Project:** Westline Hydrotest**Collection Date:** 10/3/2015 2:15:00 PM**Lab ID:** 1510196-003**Matrix:** AQUEOUS**Received Date:** 10/6/2015 8:11:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	20	5.0		mg/L	10	10/6/2015 11:22:25 AM	R29331
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: DJF
Benzene	5.4	2.0	D	µg/L	2	10/6/2015 1:18:23 PM	A29334
Toluene	15	2.0	D	µg/L	2	10/6/2015 1:18:23 PM	A29334
Ethylbenzene	3.3	2.0	D	µg/L	2	10/6/2015 1:18:23 PM	A29334
Xylenes, Total	24	3.0	D	µg/L	2	10/6/2015 1:18:23 PM	A29334
Surr: 1,2-Dichloroethane-d4	98.1	70-130	D	%REC	2	10/6/2015 1:18:23 PM	A29334
Surr: 4-Bromofluorobenzene	109	70-130	D	%REC	2	10/6/2015 1:18:23 PM	A29334
Surr: Dibromofluoromethane	107	70-130	D	%REC	2	10/6/2015 1:18:23 PM	A29334
Surr: Toluene-d8	99.6	70-130	D	%REC	2	10/6/2015 1:18:23 PM	A29334

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
D	Sample Diluted Due to Matrix	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	P Sample pH Not In Range
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1510196
 08-Oct-15

Client: Western Refining Southwest, Inc.
Project: Westline Hydrotest

Sample ID	MB-21688	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	21688	RunNo:	29358					
Prep Date:	10/6/2015	Analysis Date:	10/6/2015	SeqNo:	892718	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-21688	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	21688	RunNo:	29358					
Prep Date:	10/6/2015	Analysis Date:	10/6/2015	SeqNo:	892719	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.3	90	110			

Sample ID	MB-21726	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	21726	RunNo:	29393					
Prep Date:	10/7/2015	Analysis Date:	10/7/2015	SeqNo:	894029	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-21726	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	21726	RunNo:	29393					
Prep Date:	10/7/2015	Analysis Date:	10/7/2015	SeqNo:	894030	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.3	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510196

08-Oct-15

Client: Western Refining Southwest, Inc.

Project: Westline Hydrotest

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R29331	RunNo:	29331					
Prep Date:		Analysis Date:	10/6/2015	SeqNo:	891919	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R29331	RunNo:	29331					
Prep Date:		Analysis Date:	10/6/2015	SeqNo:	891920	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	98.4	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510196

08-Oct-15

Client: Western Refining Southwest, Inc.

Project: Westline Hydrotect

Sample ID MB-21652	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 21652	RunNo: 29273								
Prep Date: 10/5/2015	Analysis Date: 10/5/2015	SeqNo: 890900			Units: %REC					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.9		10.00		78.7	57.9	140			

Sample ID LCS-21652	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 21652	RunNo: 29273								
Prep Date: 10/5/2015	Analysis Date: 10/5/2015	SeqNo: 890901			Units: %REC					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		94.7	57.9	140			

Sample ID MB-21680	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 21680	RunNo: 29273								
Prep Date: 10/6/2015	Analysis Date: 10/6/2015	SeqNo: 892313			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.2	57.9	140			

Sample ID LCS-21680	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 21680	RunNo: 29273								
Prep Date: 10/6/2015	Analysis Date: 10/6/2015	SeqNo: 892315			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	84.1	57.4	139			
Surr: DNOP	4.8		5.000		95.5	57.9	140			

Sample ID MB-21724	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 21724	RunNo: 29273								
Prep Date: 10/7/2015	Analysis Date: 10/7/2015	SeqNo: 894129			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		108	57.9	140			

Sample ID LCS-21724	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 21724	RunNo: 29273								
Prep Date: 10/7/2015	Analysis Date: 10/7/2015	SeqNo: 894130			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510196

08-Oct-15

Client: Western Refining Southwest, Inc.

Project: Westline Hydrotest

Sample ID	LCS-21724	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	21724	RunNo:	29273					
Prep Date:	10/7/2015	Analysis Date:	10/7/2015	SeqNo:	894130	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	84.9	57.4	139			
Surr: DNOP	5.1		5.000		102	57.9	140			

Sample ID	1510196-002AMS	SampType:	MS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	Hydrotest Backgrou	Batch ID:	21724	RunNo:	29273					
Prep Date:	10/7/2015	Analysis Date:	10/7/2015	SeqNo:	894132	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	9.5	47.44	0	79.0	42.3	146			
Surr: DNOP	2.8		4.744		58.5	57.9	140			

Sample ID	1510196-002AMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	Hydrotest Backgrou	Batch ID:	21724	RunNo:	29273					
Prep Date:	10/7/2015	Analysis Date:	10/7/2015	SeqNo:	894133	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	23	9.8	49.12	0	46.8	42.3	146	47.9	28.9	R
Surr: DNOP	1.9		4.912		37.8	57.9	140	0	0	S

Sample ID	MB-21737	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	21737	RunNo:	29273					
Prep Date:	10/8/2015	Analysis Date:	10/8/2015	SeqNo:	894229	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.9		10.00		98.6	57.9	140			

Sample ID	LCS-21737	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	21737	RunNo:	29273					
Prep Date:	10/8/2015	Analysis Date:	10/8/2015	SeqNo:	894230	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1		5.000		103	57.9	140			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | 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 | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | |

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1510196
 08-Oct-15

Client: Western Refining Southwest, Inc.
Project: Westline Hydrotect

Sample ID MB-21666	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 21666		RunNo: 29332							
Prep Date: 10/5/2015	Analysis Date: 10/6/2015		SeqNo: 892323		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		86.6	75.4	113			

Sample ID LCS-21666	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 21666		RunNo: 29332							
Prep Date: 10/5/2015	Analysis Date: 10/6/2015		SeqNo: 892324		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	79.6	122			
Surr: BFB	940		1000		94.1	75.4	113			

Sample ID MB-21694	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 21694		RunNo: 29364							
Prep Date: 10/6/2015	Analysis Date: 10/7/2015		SeqNo: 893258		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	880		1000		88.0	75.4	113			

Sample ID LCS-21694	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 21694		RunNo: 29364							
Prep Date: 10/6/2015	Analysis Date: 10/7/2015		SeqNo: 893259		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	102	79.6	122			
Surr: BFB	960		1000		95.7	75.4	113			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510196
08-Oct-15

Client: Western Refining Southwest, Inc.
Project: Westline Hydrotest

Sample ID	MB-21666	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	21666	RunNo:	29332					
Prep Date:	10/5/2015	Analysis Date:	10/6/2015	SeqNo:	892366	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID	LCS-21666	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	21666	RunNo:	29332					
Prep Date:	10/5/2015	Analysis Date:	10/6/2015	SeqNo:	892368	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.050	1.000	0	96.7	80	120			
Toluene	0.94	0.050	1.000	0	94.3	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.2	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID	MB-21694	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	21694	RunNo:	29364					
Prep Date:	10/6/2015	Analysis Date:	10/7/2015	SeqNo:	893314	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID	LCS-21694	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	21694	RunNo:	29364					
Prep Date:	10/6/2015	Analysis Date:	10/7/2015	SeqNo:	893315	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.050	1.000	0	96.8	80	120			
Toluene	0.93	0.050	1.000	0	93.5	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.4	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		111	80	120			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | 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 | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510196

08-Oct-15

Client: Western Refining Southwest, Inc.

Project: Westline Hydrotect

Sample ID	rb	SampType:	MBLK	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	PBW	Batch ID:	A29334	RunNo:	29334					
Prep Date:		Analysis Date:	10/6/2015	SeqNo:	892563	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.0	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	LCSW	Batch ID:	A29334	RunNo:	29334					
Prep Date:		Analysis Date:	10/6/2015	SeqNo:	892564	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	106	70	130			
Toluene	22	1.0	20.00	0	108	70	130			
Surr: 1,2-Dichloroethane-d4	9.8		10.00		98.2	70	130			
Surr: 4-Bromofluorobenzene	12		10.00		116	70	130			
Surr: Dibromofluoromethane	11		10.00		111	70	130			
Surr: Toluene-d8	9.9		10.00		99.1	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Western Refining Southw Work Order Number: 1510196 RcptNo: 1

Received by/date: [Signature] 10/06/15

Logged By: Lindsay Mangin 10/6/2015 8:11:00 AM [Signature]

Completed By: Lindsay Mangin 10/6/2015 8:26:16 AM [Signature]

Reviewed By: CS 10/06/15

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° 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? Yes No # of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
- 13. Are matrices correctly identified on Chain of Custody? Yes No Adjusted? _____
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No Checked by: _____
(If no, notify customer for authorization.)

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: eMail Phone Fax In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes			

Chain-of-Custody Record

Client: Western Refining

Mailing Address: 111 CR 4990
Bloomfield, NM 87413

Phone #: 505-632-4169

email or Fax#: Matt.KraKow@WNR.COM

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

Accreditation
 NELAP Other _____

EDD (Type) _____

Turn-Around Time:
 Standard Rush Same Day

Project Name:
Westline Hydrotest

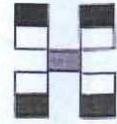
Project #:

Project Manager:
Kelly Robinson

Sampler: Kelly Robinson

On Ice: Yes No

Sample Temperature: 2.44*



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	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)	Chloride	Air Bubbles (Y or N)
3-15	14:15	Soil	Hydrotest Release #4	2-4oz Jar	---	1510196 -001	X	X										X	
3-15	14:45	Soil	Hydrotest Background #4	2-4oz Jar	---	-002	X	X										X	
3-15	14:15	H ₂ O	Hydrotest Water #4	1-500 mL poly	---	-003	X	X										X	
3-15	14:15	H ₂ O	Hydrotest Water #4	3-VOA's	HCl	-004/3	X												

Date: 3-15 Time: 4:00 Relinquished by: Matt KraKow

Date: 3/15 Time: 1900 Relinquished by: Christa Walls

Received by: Christa Walls Date: 10/5/15 Time: 1000

Received by: [Signature] Date: 10/26/15 Time: 0811

Remarks: Hold Background Sample until further notice per KR -2
Analyze AT 10/26/15

Some analytical services provided 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.

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 CONS. DIV DIST. 3

OCT 30 2015

Form C-141
Revised August 8, 2011

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

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 CR 4990 Bloomfield, NM	Telephone No. 505-632-4166
Facility Name West Line	Facility Type Crude Oil Transmission Line

Surface Owner Tribal	Mineral Owner	API No.
----------------------	---------------	---------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	1	20N	15W					

Latitude 35.9956 Longitude -108.3785

NATURE OF RELEASE

Type of Release Hydro test water	Volume of Release 5.9 barrels	Volume Recovered 0 barrels
Source of Release Pipe failure under test pressure	Date and Hour of Occurrence 10/07/2015 at approximately 9:30 am	Date and Hour of Discovery 10/07/2015 at approximately 9:30 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD (Cory Smith)	
By Whom? Matthew Krakow	Date and Hour 10/08/2015 at 9:23 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

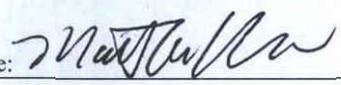
Describe Cause of Problem and Remedial Action Taken.*

Western Refining was performing a hydro test and discovered a small seep on a historical patch under test pressure. Western shut down the hydro test and isolated the pipeline.

Describe Area Affected and Cleanup Action Taken.*

Western Refining collected soil samples from the source of the spill. The analytical results showed TPH at 420 ppm and BTEX as non-detect. Western conservatively ranked the site with a score of 10 which puts this site below the recommended remediation action level according to the NMOCD remediation guidelines. The hydro test water did not contain biocide or corrosion inhibitor. Western concluded from the assessment of the release event that excavation of the soils was not necessary.

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: Matthew Krakow	Approved by Environmental Specialist: 	
Title: Environmental Coordinator	Approval Date: 12/18/15	Expiration Date:
E-mail Address: matt.krakow@wnr.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/29/2015	Phone: 505-632-4169	

* Attach Additional Sheets If Necessary

#NCS 15 35240215

18



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

October 12, 2015

Kelly Robinson
Western Refining Southwest, Inc.
#50 CR 4990
Bloomfield, NM 87413
TEL: (505) 632-4166
FAX (505) 632-3911

RE: Westline Hydrotest

OrderNo.: 1510465

Dear Kelly Robinson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 10/9/2015 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1510465

Date Reported: 10/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Hydrotest Release #6

Project: Westline Hydrotest

Collection Date: 10/7/2015 2:00:00 PM

Lab ID: 1510465-002

Matrix: MEOH (SOIL)

Received Date: 10/9/2015 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	72	30		mg/Kg	20	10/9/2015 11:19:15 AM	21767
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	150	9.9		mg/Kg	1	10/9/2015 12:12:51 PM	21758
Motor Oil Range Organics (MRO)	270	50		mg/Kg	1	10/9/2015 12:12:51 PM	21758
Surr: DNOP	99.0	57.9-140		%REC	1	10/9/2015 12:12:51 PM	21758
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	10/9/2015 10:21:03 AM	21739
Surr: BFB	87.1	75.4-113		%REC	1	10/9/2015 10:21:03 AM	21739
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.036		mg/Kg	1	10/9/2015 10:21:03 AM	21739
Toluene	ND	0.036		mg/Kg	1	10/9/2015 10:21:03 AM	21739
Ethylbenzene	ND	0.036		mg/Kg	1	10/9/2015 10:21:03 AM	21739
Xylenes, Total	ND	0.071		mg/Kg	1	10/9/2015 10:21:03 AM	21739
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	10/9/2015 10:21:03 AM	21739

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
D	Sample Diluted Due to Matrix	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	P Sample pH Not In Range
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510465

12-Oct-15

Client: Western Refining Southwest, Inc.

Project: Westline Hydrotest

Sample ID	MB-21767	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	21767	RunNo:	29458					
Prep Date:	10/9/2015	Analysis Date:	10/9/2015	SeqNo:	895859	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-21767	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	21767	RunNo:	29458					
Prep Date:	10/9/2015	Analysis Date:	10/9/2015	SeqNo:	895860	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.0	90	110			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | 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 | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510465

12-Oct-15

Client: Western Refining Southwest, Inc.

Project: Westline Hydrotect

Sample ID	MB-21652	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	21652	RunNo:	29273					
Prep Date:	10/5/2015	Analysis Date:	10/5/2015	SeqNo:	890900	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.9		10.00		78.7	57.9	140			

Sample ID	LCS-21652	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	21652	RunNo:	29273					
Prep Date:	10/5/2015	Analysis Date:	10/5/2015	SeqNo:	890901	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		94.7	57.9	140			

Sample ID	MB-21679	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	21679	RunNo:	29273					
Prep Date:	10/6/2015	Analysis Date:	10/8/2015	SeqNo:	894236	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		105	57.9	140			

Sample ID	LCS-21679	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	21679	RunNo:	29273					
Prep Date:	10/6/2015	Analysis Date:	10/8/2015	SeqNo:	894238	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.6		5.000		112	57.9	140			

Sample ID	MB-21758	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	21758	RunNo:	29273					
Prep Date:	10/9/2015	Analysis Date:	10/9/2015	SeqNo:	894850	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		101	57.9	140			

Sample ID	LCS-21758	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	21758	RunNo:	29273					
Prep Date:	10/9/2015	Analysis Date:	10/9/2015	SeqNo:	894851	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.0	57.4	139			
Surr: DNOP	4.8		5.000		96.5	57.9	140			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510465

12-Oct-15

Client: Western Refining Southwest, Inc.

Project: Westline Hydrotest

Sample ID	MB-21739	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	21739	RunNo:	29422					
Prep Date:	10/8/2015	Analysis Date:	10/9/2015	SeqNo:	895535	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	860		1000		85.9	75.4	113			

Sample ID	LCS-21739	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	21739	RunNo:	29422					
Prep Date:	10/8/2015	Analysis Date:	10/9/2015	SeqNo:	895536	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	97.8	79.6	122			
Surr: BFB	940		1000		94.1	75.4	113			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510465

12-Oct-15

Client: Western Refining Southwest, Inc.

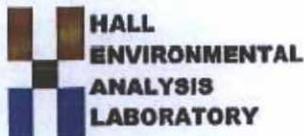
Project: Westline Hydrotest

Sample ID	MB-21739	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	21739	RunNo:	29422					
Prep Date:	10/8/2015	Analysis Date:	10/9/2015	SeqNo:	895553	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID	LCS-21739	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	21739	RunNo:	29422					
Prep Date:	10/8/2015	Analysis Date:	10/9/2015	SeqNo:	895554	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.050	1.000	0	92.6	80	120			
Toluene	0.91	0.050	1.000	0	91.4	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.3	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- 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: 1510465

RcptNo: 1

Received by/date:

[Signature] 10/09/15

Logged By: Lindsay Mangin

10/9/2015 7:30:00 AM

[Signature]

Completed By: Lindsay Mangin

10/9/2015 8:04:23 AM

[Signature]

Reviewed By:

[Signature] 10/09/15

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° 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: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.7	Good	Yes			

Chain-of-Custody Record

Turn-Around Time:

Client: Western Refining

Standard Rush Same Day

Mailing Address: 111 CR 4990

Project Name: Westline Hydrotest

Bloomfield, NM 87413

Project #:

Phone #: 505-632-4169

Project Manager:

Email or Fax#: Matt.Krakow@WUR.com

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

Kelly Robinson

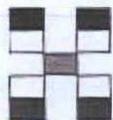
Accreditation
 NELAP Other _____

Sampler: Matt Krakow

On Ice: Yes No

EDD (Type) _____

Sample Temperature: 2.7



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	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)	Chlorides	Air Bubbles (Y or N)
7-15	1:45	Soil	Background #6	1-8oz Jar	---	1510465 -001	X		X									X	
7-15	2:00	Soil	Hydrotest Release #6	1-8oz Jar	---	-002	X		X									X	

Date: 8-15-15 Time: 13:00 Relinquished by: [Signature]

Received by: [Signature] Date: 10/15/15 Time: 1500

Remarks: Please hold background sample until further notice

Date: 8/15 Time: 2057 Relinquished by: [Signature]

Received by: [Signature] Date: 10/09/15 Time: 0730