

3R - 258

**3RD QUARTER
MONITORING
REPORT**

11/10/2009

RECEIVED

2009 NOV 16 PM 1 56

November 10, 2009

Glenn Von Gonten
Hydrologist and Groundwater Remediation
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

**RE: Western Refining Southwest Inc. (Giant) Bloomfield Crude Station 3rd
Quarter Soil Sampling Report**

Certified Mail # 7009 0820 0000 0482 8613

Dear Mr. Von Gonten;

Please find enclosed, Western Refining Southwest's (Giant) Bloomfield Crude Station 3rd Quarter soil sampling and air monitoring report, prepared by Lodestar Services Incorporated.

If you have any questions or require additional information, please do not hesitate to contact me at (505) 632-4077 or at Bill.Robertson@wnr.com.

Sincerely,
Western Refining

Bill Robertson
Safety, Environmental & Regulatory Manager



Attachments Soil Sampling Report

Cc: Brandon Powell, NMOCD
Allen Hains, Western Refining
WNR File

November 6, 2009

Mr. Bill Robertson
Western Refining Southwest
111 CR 4990
Bloomfield, NM 87413

RE: Bloomfield Crude Station Soil Sampling

Dear Mr. Robertson,

On October 21, 2009, Lodestar Services, Incorporated (Lodestar) conducted quarterly gas monitoring and collected quarterly soil samples at Western Refining's (Western's) former Bloomfield Crude Station (BCS) to assess effectiveness of the bioventing system. The BCS is located on the southwest corner of Blanco Boulevard and Fifth Street in the city of Bloomfield, San Juan County, New Mexico. The site occupies approximately 5.5 acres within the N ½, NW ¼, NW ¼ of Section 22, Township 29 North, Range 11 West. Bioventing was initiated in February 2003 and a site map showing location of monitoring and injection points is attached.

Subsurface airflow and oxygen/carbon dioxide concentrations were monitored for the third quarter of 2009. Oxygen and carbon dioxide were measured using a GEM 500™ gas monitor. Each point was evacuated until the gas reading was stable. The results are listed in Table 1. The new measurements are comparable to the previous readings, indicating little change over the last quarter.

Soil samples were collected using a hand powered auger from a location approximately one foot or less away from where soil samples were collected during the initial subsurface investigation and at the same depth as the originals. The samples were screened in the field using headspace techniques and submitted for laboratory analysis for BTEX and TPH by USEPA methods 8021 and 8015, respectively. TPH levels in the monitoring wells have generally decreased during bioventing operations, as shown in Table 2. In 2002, all soil samples were well over NMOCD standards for TPH. Since 2002, TPH levels in soil samples at all locations have generally fallen. During the third quarter of 2009, two samples (IP-16 and MP-7) were over the NMOCD standard for TPH concentration. Sample IP-7 contained a TPH concentration of 97 ppm which is below the NMOCD standard. No concentration of TPH was detected in the other samples. All locations have been under NMOCD standards for BTEX concentrations since 2004. In October 2009 no BTEX concentrations were found in any of the samples.

Based on the above results, Lodestar recommends maintaining the current injection/monitoring point configuration and conducting the annual gas monitoring and soil sampling in January. Lodestar appreciates this opportunity to perform these services for Western. If you have any questions or require additional information, please do not hesitate to call me at (970) 946-1093.

Sincerely,
Lodestar Services, Inc.

Ashley Ager

Attachments: Site Map
Table 1: Results of Air Monitoring
Table 2: April 2009 Soil Sampling Results
Hall Environmental Lab Report

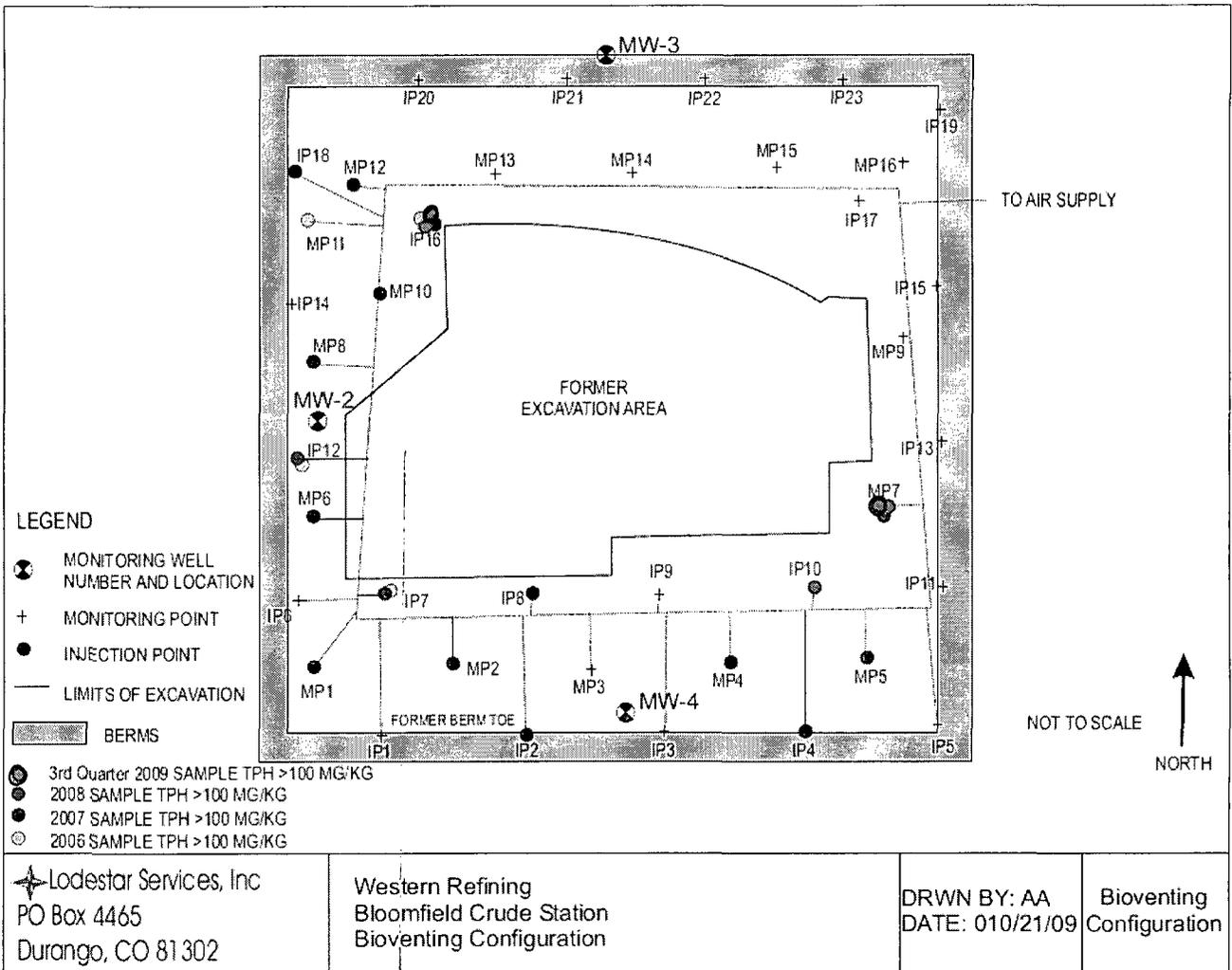


Table 1: Results of Air Monitoring

Monitoring Point	Oxygen Percentage at Monitoring Points							Carbon Dioxide Percentage at Monitoring Points										
	Pre-test	2003 avg	2004 avg	2005 avg	2006 avg	2007 avg	2008 avg	2009 October	2009 avg	Pre-test	2003 avg	2004 avg	2005 avg	2006 avg	2007 avg	2008 avg	2009 October	2009 avg
IP1						17.1	19.1	18.2	18.1						2.8	0.93	3.1	2.1
IP2						20.5	12.4	21.1	20.6						0	1.85	0	0
IP3						20.2	20.2	15.0	17.8						0	0.37	1.4	0.8
IP4						20.5	20.3	20.4	20.4						0	0.1	0	0
IP5						19.2	20.3	21.1	19.9						1.1	0.05	0.2	0.3
IP6						15.1	19.6	18.3	11.4						5.4	0.23	1.3	3.9
IP7						18	20	20.9	20.5						2.5	0.13	0	0
IP8	20.2	3.25	4.8	0.03	0	20.5	10.8	21.1	20.6	0.8	13.4	10.6	3.5	14.4	0	1.45	0	0
IP9						18.1	20.2	21.9	20.9						0.2	0.13	0	0
IP10	17.2	3.15	12.4	4.8	7.15	14.5	14.6	10.3	10.6	1.8	6.52	11	4.87	14.1	6.5	5.65	5.2	3.6
IP11	20.9	9.51	8.63	13.5	19.6	20.4	20.4	11.5	17.3	0	1.03	11.9	4.47	1.3	0	0.17	0.0	0.2
IP12						18.4	18.8	21.0	20.8						1.4	0.2	0	0
IP13	20.9	8.62	19	18.3	17.9	19.5	18.9	13.6	18.0	0.2	1.74	1.38	2.07	2.18	0.45	1.4	2.1	0.9
IP14	19.9	5.77	4.5	3.4	15.6	18.5	14.4	7.0	13.6	1	6.84	10.1	13.7	4.75	2.03	3.98	9.4	6.8
IP15	20.9	0.07	19.9	20.3	20	20.3	20.2	20.5	20.0	0.8	1.21	0.33	0.47	0.55	0.1	0.13	0.9	0.3
IP16						20.5	14.3	21.1	20.6						0	0.4	0	0
IP17	20.9	0.44	19.2	19	19.4	17.6	20.4	19.4	19.6	1	1.1	1.25	2.13	1.03	0.23	0.28	2.1	0.7
IP18						17.6	19.2	20.5	20.7						2.9	0.15	0	0
IP19	20.9	9.27	16.2	18.1	19.4	19.1	19.7	20.3	20.1	0.4	1.24	3.5	2.37	0.93	1.38	0.95	4.3	4.3
IP20	20.5	5.88	7.18	13.5	17.8	19	19.7	19.5	18.8	0.6	6.36	8.4	5.8	1.78	0.95	0.9	2.4	1.7
IP21	20.9	8.33	18.1	19.7	18.7	20	20.2	19.4	19.8	1.4	1.2	2.2	4.1	0.85	0.15	0.35	2.4	0.8
IP22	20.9	0.14	17.5	18.3	19.2	20	20.3	18.2	19.4	0.4	0.94	1.85	2.33	1.13	0.43	0.18	2.8	0.9
IP23	20.9	0.69	19.3	18.7	19.4	20.2	20.7	18.7	19.7	0.6	0.66	0.77	2.03	0.9	0.2	0.23	0.0	0.2
MP1						17.9	19.5	21.1	20.6						2.1	0.28	0	0
MP2						20.4	20.2	21.0	20.7						0.2	0.13	0	0
MP3						17	18.2	15.8	17.1						0.5	1.63	4.6	2.9
MP4	19	1.94	6.15	2	0	20.5	13.4	17.0	19.0	1.2	12.1	14.5	6.33	14.9	0	1.7	5.6	1.9
MP5						30.5	18.7	21.0	20.6						0	0.23	0	0

Table 1: Results of Air Monitoring

Monitoring Point	Oxygen Percentage at Monitoring Points							Carbon Dioxide Percentage at Monitoring Points										
	Pre-test	2003 avg	2004 avg	2005 avg	2006 avg	2007 avg	2008 avg	2009 October	2009 avg	Pre-test	2003 avg	2004 avg	2005 avg	2006 avg	2007 avg	2008 avg	2009 October	2009 avg
MP6						15.7	19.9	21.1	20.8						4.6	0.2	0	0
MP7	18.6	6.56	7.85	14.2	18.5	20.5	14.1	21.1	20.6	1.4	5.6	8.25	4.2	0.7	0.03	0.33	0	0
MP8						18.1	20.1	20.9	20.6						2.2	0.15	0	0
MP9	20.5	13.1	18.9	19.3	18.9	19.6	20.1	18.0	19.4	1	1.89	0.98	1.5	1.28	0.33	0.28	3.2	1.1
MP10						16.8	20.5	20.7	20.6						3.2	0.03	0	0
MP11						17.2	16	20.9	20.7						3.3	0.48	0	0
MP12						19.7	15.7	21.0	20.7						0.3	0.63	0	0
MP13						17.3	19	12.2	17.1						2.1	0.23	0.8	0.3
MP14	19.2	14.2	8.3	14.1	15.9	19.1	18.8	19.7	19.6	1	3.34	7.98	5.33	3.5	1.08	1.2	4.9	1.8
MP15	20.9	18.4	14.9	14.2	18.4	19.2	20.5	20.2	19.9	0.6	1.82	3.68	3.43	1.5	1.45	0.15	0.0	0.05
MP16	20.9	20.1	19	19.5	19.3	19.3	19.7	20.2	20	0.06	0.97	1.4	1.43	1.2	1.18	0.98	0.1	0.2
Average	20.2	13.9	13.4	13.9	15.8	19.1	18.4	18.6	19.7	0.79	3.77	5.55	3.53	3.72	1.3	0.74	1.46	0.93

2003 includes data from 2/03,3/03,10/03 and 1/04.
 2004 includes quarterly data from 4/04,7/04,10/04 and 1/05.
 2005 includes data from 4/05, 7/05 and 10/05. The pump that injects air into the subsurface was being repaired during the 4th quarter monitoring event.
 2006 includes data from 4/06, 7/06, 10/06 and 1/07.
 2007 includes data from 4/07, 7/07, 10/07 and 1/08.
 *Injection valve is broken and cannot shut off.

Table 2: April 2009 Soil Sampling Results

Location	Depth (ft)	PID (ppm)	Lab TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)
NMOC Standard			100	10				50
4/23/09								
MP-11	12	0.7	nd	nd	nd	nd	nd	0
IP-16	9	1.6	330	nd	nd	nd	nd	0
MP-8	9	0.4	nd	nd	nd	nd	nd	0
IP-12	12	0.2	nd	nd	nd	nd	nd	0
IP-7	12	0.2	97	nd	nd	nd	nd	0
MP-3	6	0.5	nd	nd	nd	nd	nd	0
MP-7	6	2.0	2,260	nd	nd	nd	nd	0
IP-10	6	2.4	nd	nd	nd	nd	nd	0

nd: not detected

COVER LETTER

Thursday, October 29, 2009

Bill Robertson
Western Refining Southwest, Inc.
#50 CR 4990
Bloomfield, NM 87413
TEL: (505) 632-4161
FAX (505) 632-3911

RE: Bloomfield Crude Station

Order No.: 0910410

Dear Bill Robertson:

Hall Environmental Analysis Laboratory, Inc. received 8 sample(s) on 10/22/2009 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

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

Sincerely,



Andy Freeman, Laboratory Manager

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX



Hall Environmental Analysis Laboratory, Inc.

Date: 29-Oct-09

CLIENT: Western Refining Southwest, Inc.
Lab Order: 0910410
Project: Bloomfield Crude Station
Lab ID: 0910410-01

Client Sample ID: MP-8
Collection Date: 10/21/2009 12:30:00 PM
Date Received: 10/22/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/27/2009 12:47:12 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/27/2009 12:47:12 PM
Surr: DNOP	89.6	61.7-135		%REC	1	10/27/2009 12:47:12 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/23/2009 4:11:56 PM
Surr: BFB	98.9	65.9-118		%REC	1	10/23/2009 4:11:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	10/23/2009 4:11:56 PM
Toluene	ND	0.050		mg/Kg	1	10/23/2009 4:11:56 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/23/2009 4:11:56 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/23/2009 4:11:56 PM
Surr: 4-Bromofluorobenzene	100	64.7-120		%REC	1	10/23/2009 4:11:56 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E Estimated value	H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits	MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit	RL Reporting Limit
S Spike recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Oct-09

CLIENT: Western Refining Southwest, Inc. **Client Sample ID:** MP-3
Lab Order: 0910410 **Collection Date:** 10/21/2009 1:00:00 PM
Project: Bloomfield Crude Station **Date Received:** 10/22/2009
Lab ID: 0910410-02 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/27/2009 1:23:26 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/27/2009 1:23:26 PM
Surr: DNOP	90.5	61.7-135		%REC	1	10/27/2009 1:23:26 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/23/2009 4:42:26 PM
Surr: BFB	105	65.9-118		%REC	1	10/23/2009 4:42:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	10/23/2009 4:42:26 PM
Toluene	ND	0.050		mg/Kg	1	10/23/2009 4:42:26 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/23/2009 4:42:26 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/23/2009 4:42:26 PM
Surr: 4-Bromofluorobenzene	108	64.7-120		%REC	1	10/23/2009 4:42:26 PM

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
 E Estimated value H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limits MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit RL Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Oct-09

CLIENT: Western Refining Southwest, Inc. **Client Sample ID:** IP-10
Lab Order: 0910410 **Collection Date:** 10/21/2009 1:01:00 PM
Project: Bloomfield Crude Station **Date Received:** 10/22/2009
Lab ID: 0910410-03 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/27/2009 1:59:21 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/27/2009 1:59:21 PM
Surr: DNOP	80.6	61.7-135		%REC	1	10/27/2009 1:59:21 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/23/2009 5:12:51 PM
Surr: BFB	102	65.9-118		%REC	1	10/23/2009 5:12:51 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	10/23/2009 5:12:51 PM
Toluene	ND	0.050		mg/Kg	1	10/23/2009 5:12:51 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/23/2009 5:12:51 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/23/2009 5:12:51 PM
Surr: 4-Bromofluorobenzene	104	64.7-120		%REC	1	10/23/2009 5:12:51 PM

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
 E Estimated value H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limits MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit RL Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Oct-09

CLIENT:	Western Refining Southwest, Inc.	Client Sample ID:	MP-7
Lab Order:	0910410	Collection Date:	10/21/2009 1:14:00 PM
Project:	Bloomfield Crude Station	Date Received:	10/22/2009
Lab ID:	0910410-04	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	960	100		mg/Kg	10	10/28/2009 2:34:11 AM
Motor Oil Range Organics (MRO)	1300	500		mg/Kg	10	10/28/2009 2:34:11 AM
Surr: DNOP	109	61.7-135		%REC	10	10/28/2009 2:34:11 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/23/2009 5:43:14 PM
Surr: BFB	105	65.9-118		%REC	1	10/23/2009 5:43:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	10/23/2009 5:43:14 PM
Toluene	ND	0.050		mg/Kg	1	10/23/2009 5:43:14 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/23/2009 5:43:14 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/23/2009 5:43:14 PM
Surr: 4-Bromofluorobenzene	107	64.7-120		%REC	1	10/23/2009 5:43:14 PM

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Estimated value	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	MCL Maximum Contaminant Level
	ND Not Detected at the Reporting Limit	RL Reporting Limit
	S Spike recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Oct-09

CLIENT: Western Refining Southwest, Inc.	Client Sample ID: MP-11
Lab Order: 0910410	Collection Date: 10/21/2009 1:30:00 PM
Project: Bloomfield Crude Station	Date Received: 10/22/2009
Lab ID: 0910410-05	Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/28/2009 9:20:36 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/28/2009 9:20:36 AM
Surr: DNOP	148	61.7-135	S	%REC	1	10/28/2009 9:20:36 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/23/2009 6:13:36 PM
Surr: BFB	93.9	65.9-118		%REC	1	10/23/2009 6:13:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	10/23/2009 6:13:36 PM
Toluene	ND	0.050		mg/Kg	1	10/23/2009 6:13:36 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/23/2009 6:13:36 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/23/2009 6:13:36 PM
Surr: 4-Bromofluorobenzene	94.6	64.7-120		%REC	1	10/23/2009 6:13:36 PM

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Estimated value	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	MCL Maximum Contaminant Level
	ND Not Detected at the Reporting Limit	RL Reporting Limit
	S Spike recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Oct-09

CLIENT:	Western Refining Southwest, Inc.	Client Sample ID:	IP-12
Lab Order:	0910410	Collection Date:	10/21/2009 1:40:00 PM
Project:	Bloomfield Crude Station	Date Received:	10/22/2009
Lab ID:	0910410-06	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/27/2009 2:35:19 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/27/2009 2:35:19 PM
Surr: DNOP	99.1	61.7-135		%REC	1	10/27/2009 2:35:19 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/23/2009 10:49:36 PM
Surr: BFB	102	65.9-118		%REC	1	10/23/2009 10:49:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	10/23/2009 10:49:36 PM
Toluene	ND	0.050		mg/Kg	1	10/23/2009 10:49:36 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/23/2009 10:49:36 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/23/2009 10:49:36 PM
Surr: 4-Bromofluorobenzene	105	64.7-120		%REC	1	10/23/2009 10:49:36 PM

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Estimated value	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	MCL Maximum Contaminant Level
	ND Not Detected at the Reporting Limit	RL Reporting Limit
	S Spike recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Oct-09

CLIENT: Western Refining Southwest, Inc. **Client Sample ID:** IP-7
Lab Order: 0910410 **Collection Date:** 10/21/2009 1:53:00 PM
Project: Bloomfield Crude Station **Date Received:** 10/22/2009
Lab ID: 0910410-07 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	16	10		mg/Kg	1	10/29/2009 9:01:14 AM
Motor Oil Range Organics (MRO)	81	50		mg/Kg	1	10/29/2009 9:01:14 AM
Surr: DNOP	93.2	61.7-135		%REC	1	10/29/2009 9:01:14 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/23/2009 11:19:55 PM
Surr: BFB	88.3	65.9-118		%REC	1	10/23/2009 11:19:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	10/23/2009 11:19:55 PM
Toluene	ND	0.050		mg/Kg	1	10/23/2009 11:19:55 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/23/2009 11:19:55 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/23/2009 11:19:55 PM
Surr: 4-Bromofluorobenzene	86.8	64.7-120		%REC	1	10/23/2009 11:19:55 PM

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
 E Estimated value H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limits MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit RL Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Oct-09

CLIENT: Western Refining Southwest, Inc. Client Sample ID: IP-16
 Lab Order: 0910410 Collection Date: 10/21/2009 2:03:00 PM
 Project: Bloomfield Crude Station Date Received: 10/22/2009
 Lab ID: 0910410-08 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	130	10		mg/Kg	1	10/29/2009 9:36:49 AM
Motor Oil Range Organics (MRO)	200	50		mg/Kg	1	10/29/2009 9:36:49 AM
Surr: DNOP	97.1	61.7-135		%REC	1	10/29/2009 9:36:49 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/23/2009 11:50:16 PM
Surr: BFB	100	65.9-118		%REC	1	10/23/2009 11:50:16 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	10/23/2009 11:50:16 PM
Toluene	ND	0.050		mg/Kg	1	10/23/2009 11:50:16 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/23/2009 11:50:16 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/23/2009 11:50:16 PM
Surr: 4-Bromofluorobenzene	103	64.7-120		%REC	1	10/23/2009 11:50:16 PM

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
 E Estimated value H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limits MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit RL Reporting Limit
 S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Inc.
 Project: Bloomfield Crude Station

Work Order: 0910410

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-20405		MBLK									
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-20405		LCS									
Diesel Range Organics (DRO)	32.47	mg/Kg	10	50	0	64.9	64.6	116			
Method: EPA Method 8015B: Gasoline Range											
Sample ID: MB-20396		MBLK									
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-20396		LCS									
Gasoline Range Organics (GRO)	28.21	mg/Kg	5.0	25	1.51	107	64.4	133			
Method: EPA Method 8021B: Volatiles											
Sample ID: MB-20396		MBLK									
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: LCS-20396		LCS									
Benzene	0.9124	mg/Kg	0.050	1	0.0154	89.7	78.8	132			
Toluene	0.9116	mg/Kg	0.050	1	0.0111	90.1	78.9	112			
Ethylbenzene	0.9562	mg/Kg	0.050	1	0	95.6	69.3	125			
Xylenes, Total	2.881	mg/Kg	0.10	3	0	96.0	73	128			

Qualifiers:

E Estimated value
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING SOUT

Date Received:

10/22/2009

Work Order Number 0910410

Received by: TLS

Checklist completed by:

Signature [Handwritten Signature]

Date 10/22/09

Sample ID labels checked by:

Initials [Handwritten Initials]

Matrix:

Carrier name: Greyhound

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Preservation labels on bottle and cap match? Yes No N/A
- Water - pH acceptable upon receipt? Yes No N/A
- Container/Temp Blank temperature? 5.9° <6° C Acceptable

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Western Refining
Bill Robertson
 Mailing Address: 111 CR 4990
Bloomfield NM 87413

Phone #: _____
 email or Fax#: _____
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation
 NELAP Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush

Project Name:
Bloomfield Crude Station
 Project #:

Project Manager:
Ashley Ager

Sampler: Devin Hennemann
 Office: 405-345-3975
 Sample Container: 59



Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type
10/21/09	12:30	Soil	MP-8	4oz / 2	NONE
10/21/09	13:00	Soil	MP-3	4oz / 2	NONE
10/21/09	13:01	Soil	IP-10	4oz / 2	NONE
10/21/09	13:14	Soil	MP-7	4oz / 2	NONE
10/21/09	13:30	Soil	MP-11	4oz / 2	NONE
10/21/09	13:40	Soil	IP-12	4oz / 2	NONE
10/21/09	13:53	Soil	IP-7	4oz / 2	NONE
10/21/09	14:03	Soil	IP-10	4oz / 2	NONE

Date: 10/21/09 Time: 12:45
 Relinquished by: [Signature]

Received by: [Signature] Date: 10/22/09 Time: 1:05
 Received by: _____ Date: _____ Time: _____

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

Remarks:
Please copy results to
ala@lodestar-services.com