NM2 - ___10_____

RELEASE RESPONSE REPORT

___2014___

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

David R. Catanach, Division Director
Oil Conservation Division

June 3, 2015

Kelly Robinson
Western Refining Southwest, Inc.
111 County Road 4990
Bloomfield, New Mexico 87413

RE: May 2014 Release Response Report Review
Western Refining Southwest, Inc.
Bisti Landfarm
Permit NM2-010
Location: Unit F of Section 16, Township 25 North, Range 12 West, NMPM
San Juan County, New Mexico

The Oil Conservation Division (OCD) has completed the review of Western Refining Southwest, Inc.'s (Western) Response to OCD Review of the 2012 Monitoring Reports, dated May 16, 2014, and the May 2014 Release Response Report. OCD appreciates Western's efforts to implement changes to your monitoring protocols to comply with the requests in OCD's 2012 Monitoring Reports Review, dated April 8, 2014. OCD also appreciates the submittal of the release response report, promised in the 2010 Annual Monitoring Report, dated June 3, 2010. The review of the May 2014 Release Response Report has resulted in the discovery of some issues that must be addressed in order for Western to remain compliant with Permit NM2-010 and 19.15.36 NMAC.

OCD review has determined that there seems to be some confusion on Western's behalf when discussing the release response results. In Section 2.0, *Vadose Zone Soil Sampling Results*, of the Release Response Report, the discussion of the analytical data compares the results to "the respective laboratory detection limit." Task 3 of the OCD approved Release Response Plan, cover letter dated January 4, 2010, states "Results will be compared with the higher of the Practical Quantitative Limit (PQL) and the background soils concentration to determine downward migration has occurred." Section 2.0 did not provide the required and approved assessment.

The first paragraph of Section 3.0, *Conclusions*, states "Western identified chloride concentrations above the 1998 baseline concentrations at two locations within the Crude Cell and at four locations within the API Cell. However, there are only two locations where the detected concentrations are above the 1,000 mg/kg screening level for [treatment zone closure]." OCD wishes to clarify that the treatment zone are the soils to be remediated and the vadose zone are the native soils beneath the treatment zone. The release response plan was approved to reassess

the vadose zone to determine if a release has occurred, due to reported detections. Pursuant to 19.15.36.15.E NMAC, the operator is required to compare the vadose results "to the higher of the PQL or the background soil concentrations to determine whether a release has occurred." The treatment zone (soils be remediated) closure performance standards of 19.15.36.15.F NMAC are not applicable to the native soils (vadose zone) beneath the soils be remediated.

The second paragraph of Section 3.0, *Conclusions*, states "Additionally, only one sample detected concentrations above the respective laboratory reporting limits for TPH-DRO. However the detected concentration was below the 1998 baseline sample results. All other samples did not contain concentrations above the laboratory reporting limits." Task 3 of the OCD approved Release Response Plan, cover letter dated January 4, 2010, states "Results will be compared with the higher of the Practical Quantitative Limit (PQL) and the background soils concentration to determine downward migration has occurred." The comparison to "the respective laboratory detection limit" is not the assessment Western proposed or OCD approved.

In OCD February 1, 2010 approval of Western's Release Response Plan, cover letter dated January 4, 2010, specified two conditions. The first conditions stated "Western shall verify and confirm previous vadose sampling results by testing the vadose zone of the active cells for TPH, BTEX and chlorides using EPA methods 8015M, 8021B, and 300.1, respectively." The second condition specified "If the verification sampling results demonstrate the presence of contaminants in the vadose zone, Western shall submit a revised release response plan that proposes a defined protocol for delineating the extent of the contamination in compliance with the testing protocols and parameters of Paragraph (5) of Subsection E of 19.15.36.15 NMAC for OCD review and consideration of approval." The second condition has not been pursued or recognized by Western in any of the follow up correspondence with OCD.

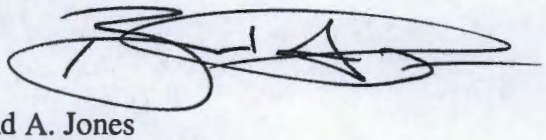
In order for Western to proceed, certain issues regarding the facility background need to be resolved. Currently, Western does not have the complete background data to perform the vadose zone assessment as required by Part 36. The April 1998 background data set provides results for the following 21 analytes: potassium, selenium, silver, sodium, sulfate, chloride, carbonates, bicarbonates, arsenic, barium, cadmium, calcium, chromium, lead, magnesium, mercury, diesel range organics (DRO) , benzene, toluene, ethyl benzene, and total xylene. To complete the release response initial assessment, background needs to be established for TPH. Part 36 specifies EPA Method 418.1 as the required vadose zone analyses for TPH. OCD is willing to accept an equivalent method to EPA Method 418.1 that is capable of demonstrating a carbon range from C_6 to C_{36} (e.g. Method 8015 for GRO/DRO/MRO or ORO). To finish the 2012 five year vadose zone assessment, background needs to be established for copper, iron, manganese, and zinc. If follow up and/or future quarterly vadose zone monitoring demonstrate exceedances, then the additional analysis will be needed to complete the comparison to the 46 analtyes required by 19.15.36.15.E NMAC. Please submit a background sampling plan to OCD under a separate cover, for OCD's consideration of approval to update the existing background data set and complete the release response and five year vadose zone assessments.

Please submit a background sampling plan to OCD under a separate cover, for OCD's consideration of approval to update the existing background data set and complete the release response and five year vadose zone assessments within 60 days of the date of this letter. Please submit a revised version of the Release Response Plan that provides an appropriate discussion of the vadose zone results and a comparison to the updated facility background within 90 days of

the date of this letter. Please submit an amendment for the 2012 five vadose zone assessment that includes a comparison of the laboratory results required for the five year demonstration to the updated facility background within 90 days of the date of this letter. Since the laboratory results confirm chloride contamination within the vadose zone, please pursue and initiate the action specified in the second condition of OCD's approval, dated February 1, 2010, of the 2010 release response plan.

OCD has implemented some new policies for submittal. For future submittals, please include a cover letter from the owner/operator, on the owner's/operator's company letterhead, that recognizes the owner/operator has reviewed the submittal, signed by the owner/operator. Also, please provide an updated facility map, for each individual sampling event, that identifies the individual landfarm cells within the facility boundary and indicate the approximate location within the landfarm cells in which the samples were obtained. If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,



Brad A. Jones
Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

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Cabinet Secretary

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Deputy Cabinet Secretary

David R. Catanach, Division Director
Oil Conservation Division

May 28, 2015

Kelly Robinson
Western Refining Southwest, Inc.
50 County Road 4990
Bloomfield, New Mexico 87413

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Western Refining Southwest, Inc.
Bisti Landfarm
Permit NM2-010
Location: Unit F of Section 16, Township 25 North, Range 12 West, NMPM
San Juan County, New Mexico

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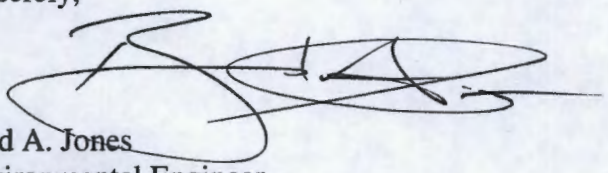


Brad A. Jones
Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec

Western Refining

WNR LISTED NYSE

RECEIVED OCD

2014 MAY 19 P 2:09

May 16, 2014

Mr. Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Response to 2012 Monitoring Reports Review dated April 8, 2014
Western Refining Southwest, Inc.
Bisti Landfarm
Permit NM2-010
Location: Unit F of Section 16, Township 25 North, Range 12 West, NMPM
San Juan County, New Mexico

Dear Mr. Jones:

Western Refining Southwest, Inc. (Western) received your letter dated April 8, 2014 regarding review by the New Mexico Oil Conservation Division (NMOCD) of the 2012 Monitoring Report for the Bisti Landfarm (Permit NM2-010). Western presents the following responses to address the compliance issues identified in your letter.

On March 4, 2010, Western completed the field activities pursuant to the approved Response Action Plan dated December 31, 2009. The purpose of the field activities was to delineate potential vertical migration of contaminants to the vadose zone. A summary of the initial Response Action Plan analytical results, including a site map depicting the sample locations, was provided to NMOCD as an attachment to the 2010 Annual Report dated June 3, 2010. The reference to a report dated June 6, 2010 in subsequent documentation was an error.

With regards to the statement included in the 2010 Annual Report indicating that a proposal for remedial action of the vasose zone is forthcoming, it was and remains Western's desire to schedule a meeting with NMOCD to further discuss the results from the initial response action plan field activities prior to formalizing a remedial action plan. In addition, Western would like to discuss the additional information collected to-date since completion of the initial response action plan field activities, and the options available for Western to initiate closure of the landfarm.

With regards to the analysis required for five-year vadose zone sampling events, Western appreciates the clarification provided by NMOCD regarding the unnecessary analysis provided in the 2012 Annual Report that extends beyond the requirements for compliance with paragraph (3) of 19.15.36.15.E NMAC. All analysis of samples collected as part of future five-year sampling events will be limited to include only those constituents listed in Subsections A and B of 20.6.2.3103 of the New Mexico Administrative Code (NMAC) as determined by Environmental Protection Agency (EPA) publication SW-846 methods 6010B or 6020.

In regards to the laboratory analytical method used to determine concentrations of total petroleum hydrocarbons (TPH), Western continued to use EPA Method 8015 based on an undocumented conference call between NMOCD and Western in January 2010 when it was argued that continued use of EPA Method 8015 would better correlate to historical sampling results. Additionally, NMOCD approved the use of EPA Method 8015 for determining TPH concentrations in soil samples collected for delineation in the initial release response plan as documented in a letter to Western from NMOCD dated February 1, 2010. At the time that the field activities were performed, samples were analyzed using the most up-dated EPA approved method. With all this said, however, NMOCD's argument that the original permit specifies only constituents and no testing method is acknowledged. Since Western has no written documentation for approval by the NMOCD for the use of EPA Method 8015 in vadose zone monitoring and the NMOCD is not concerned with continuity for comparison to historical analytical results, Western will analyze TPH concentrations in all future vadose zone samples with EPA Method 418.1. Any change in analysis will be proposed to NMOCD for approval before use.

In closing and to more clearly account for the documentation of the activities performed pursuant to the approved initial Response Action Plan dated December 31, 2009, Western is enclosing a detailed report formally documenting the field activities pursuant to the initial response action plan. Western will contact you within the next week to schedule a meeting to discuss the release response results for the purposes of determining the best approach to transition the facility to closure. If you have any questions prior to the meeting, please contact me at 505-632-4166.

Sincerely,

Kelly Robinson

Kelly Robinson
Environmental Supervisor
Western Refining Southwest, Inc.

cc: A. Hains (WNR)
R. Schmaltz (WNR)

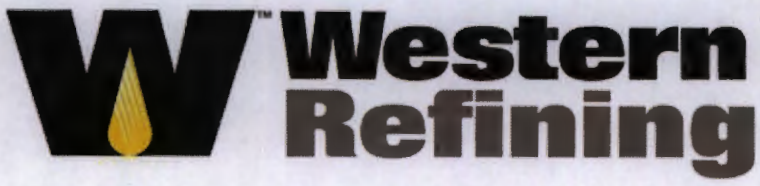
Attachments (1)

RELEASE RESPONSE REPORT

BISTI LANDFARM
WESTERN REFINING CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY NM-02-0010

SAN JUAN COUNTY, NEW MEXICO

MAY 2014



WESTERN REFINING SOUTHWEST INC.
Bloomfield, New Mexico

RELEASE RESPONSE REPORT

BISTI LANDFARM
WESTERN REFINING CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY NM-02-001

SAN JUAN COUNTY, NEW MEXICO

MAY 2014

Prepared for:

WESTERN REFINING SOUTHWEST, INC.
111 County Road 4990
Bloomfield, New Mexico 87413

Prepared by:

LT ENVIRONMENTAL, INC.
2243 Main Avenue, Suite 3
Durango, Colorado 81301
(970) 385-1096

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APPENDICES

1.0 INTRODUCTION

As requested by the New Mexico Oil Conservation Division (NMOCD), Western Refining Southwest, Inc. (Western) is submitting this report to document the field activities performed pursuant to the NMOCD approved Release Response Plan dated December 31, 2009. This report contains a summary of field activities conducted and analytical results obtained as part of the vadose zone sampling conducted at Bisti Landfarm (Site).

1.1 SITE DESCRIPTION AND HISTORY

The Site occupies approximately 28 acres in the northwest quarter of the southeast quarter of Section 16, Township 25 North, Range 12 West in San Juan County, New Mexico (Figure 1). In 1998, Giant Industries, Arizona (Giant) permitted the Site as a surface waste management facility under the (NMOCD) Rule 711. Giant disposed of impacted soils at the Bisti Landfarm resulting in three cells: API Cell, Crude Cell (containing material originating from Pettigrew, East Line, Bisti, and West Line) and Cell 1 which is inactive (Figure 2). In 2007, the NMOCD instituted new rules (Rule 36) pertaining to surface waste management facilities and required compliance with the transitional provisions of Rule 36. Western acquired the Bisti Landfarm from Giant in June of 2007. The landfarm was used to dispose of crude impacted soil in the API Cell and Crude Cell until 2010. Western continues to monitor and maintain the API Cell and the Crude Cell. Maintenance and treatment zone monitoring has been discontinued in Cell 1 following approval from NMOCD in a letter dated March 8, 2004. In response to NMOCD concerns of vertical migration of contaminates, Western submitted a Release Response Plan to confirm and delineate potential impacts to the vadose zone.

1.2 VADOSE ZONE SAMPLING AND DELINEATION FIELD ACTIVITIES

On March 4, 2012, LT Environmental, Inc. (LTE) conducted field activities in accordance with the NMOCD approved Release Response Plan dated December 31, 2009. Discrete soil samples were collected from the vadose zone from each of the two (2) active cells (API Cell and Crude Cell). Samples were collected 3 to 4 feet below the original ground surface. The number of samples collected from each cell was based on the size of the cell. The Crude Cell is divided into four areas as shown in Figure 3: East Line Source Area, West Line Source Area, Bisti Source Area, and Pettigrew Source Area. A total of 14 samples were collected from the Crude Cell; five samples were collected from the East Line Source Area, four each from the West Line and Bisti Source Area, and one sample was collected from the Pettigrew Source Area. In addition, a total of eight samples were collected from the API Cell. Figure 3 depicts the sample locations.

Each of the soil samples were analyzed for chloride by EPA Method 300.0, benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8012B, and diesel range organics (DRO), motor oil range organics (MRO), and gasoline range organics (GRO) (Total Petroleum Hydrocarbons (TPH)) by EPA Method 8015B by request of the NMOCD. Samples were collected by placing discrete samples into glass sampling jars provided by the laboratory and being stored on ice. Samples were transported to Hall Environmental Laboratory in Albuquerque, New Mexico under strict chain of custody procedures. Laboratory analytical results are presented in Table 1, and laboratory reports are attached in Appendix A.

2.0 VADOSE ZONE SOIL SAMPLING RESULTS

2.1 CRUDE CELL

Chloride was detected in 11 samples at concentration above the respective laboratory detection limit. The detected concentrations ranged between 2.4 mg/kg and 2,500 mg/kg, with the highest concentration detected at the Pettigrew Source Area.

Total petroleum hydrocarbon concentrations were only detected in one sample above the respective laboratory reporting limit. Sample Bisti S4 detected a TPH-DRO concentration of 35 mg/kg. All other TPH samples were reported as non-detect.

Benzene, toluene, ethylbenzene, and xylenes were not detected above the respective laboratory reporting limits. A summary of the analytical results for samples collected within the Crude Cell is provided in Table 1. The location of each samples is shown in Figure 3.

2.2 API CELL

Chloride was detected at concentrations above the respective laboratory reporting limit in eight samples. The detected detected concentrations ranging between 4.1 mg/kg and 1,200 mg/kg, with the highest concentration detected at sample location API S4.

Total petroleum hydrocarbons (TPH-DRO, TPH-GRO, and TPH-DRO), benzene, toluene, ethylbenzene, and xylenes were not detected above the respective laboratory reporting limits in samples collected within the API Cell. A summary of the analytical results for samples collected within the API Cell is provided in Table 1. The location of each sample is shown in Figure 3.

3.0 CONCLUSIONS

Western identified chloride concentrations above the 1998 baseline concentration at two locations within the Crude Cell and at four locations within the API Cell. However, there are only two location where the detected concentration are above the 1,000 mg/kg screening level for treatment zone closure.

Additionally, only one sample detected concentrations above the respective laboratory reporting limits for TPH-DRO. However the detected concentration was below the 1998 baseline sample result. All other samples did not contain concentrations above the respective laboratory reporting limits.

Options for addressing these impacts will be discussed in a meeting between NMOCD and Western.

FIGURES

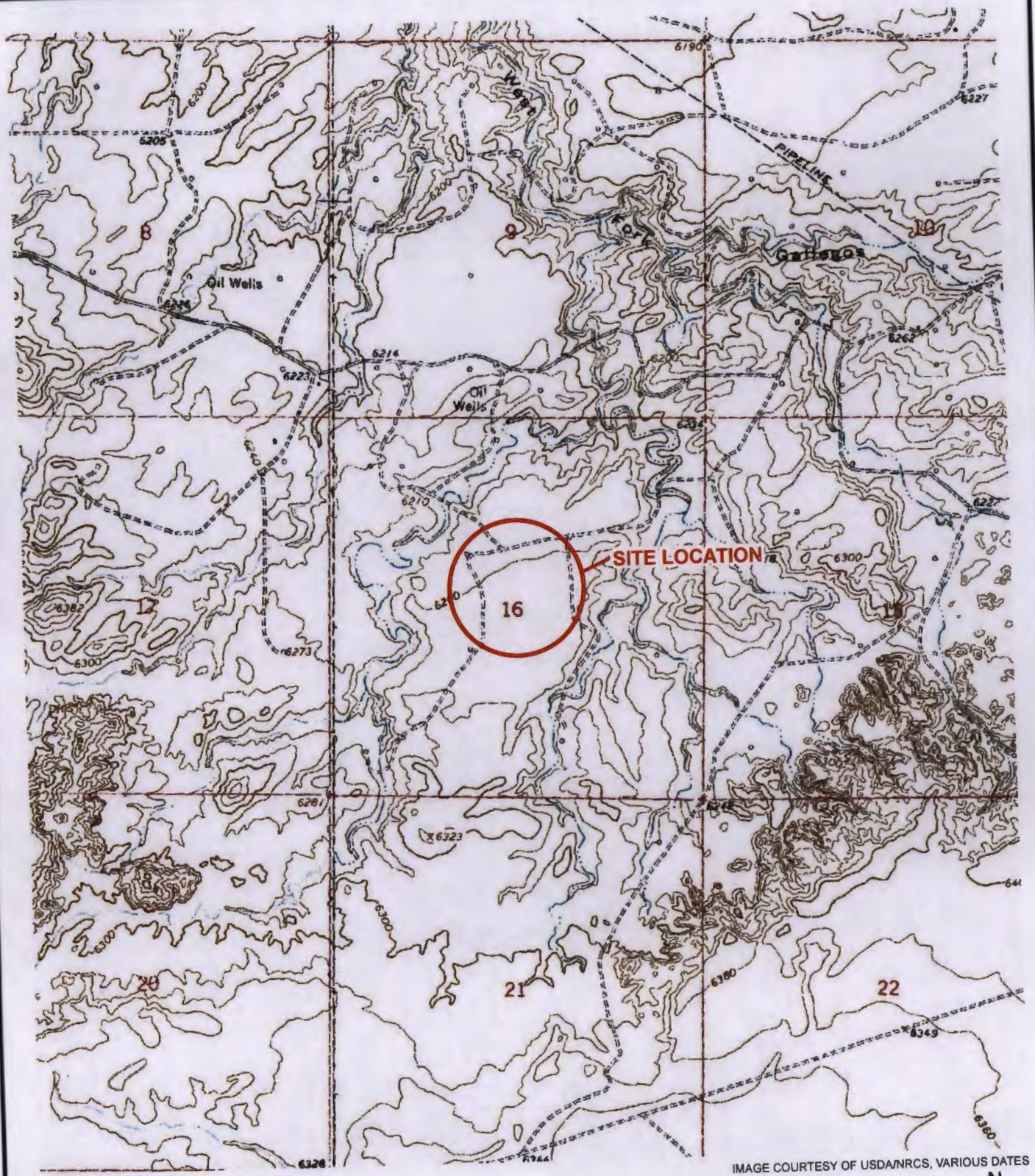

FIGURE 1
SITE LOCATION MAP
BISTI LANDFARM
SEC 16 T25N R12W
SAN JUAN COUNTY, NEW MEXICO
WESTERN REFINING SOUTHWEST, INC.

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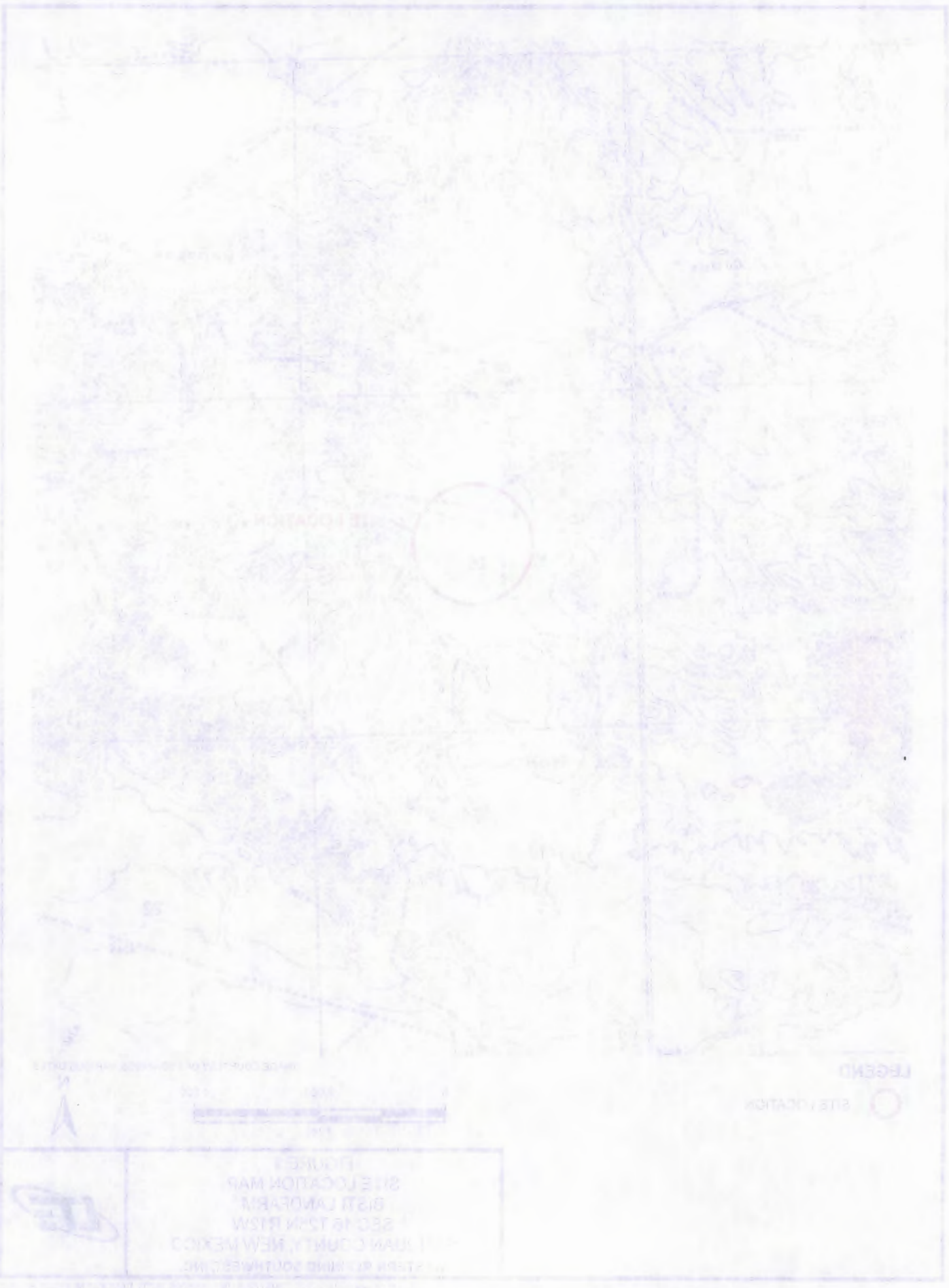

IMAGE COURTESY OF GOOGLE EARTH, 06/10/2011

LEGEND

- x — x FENCE
- APPROXIMATE SOURCE IDENTITY BOUNDARY
- CELL 1 BOUNDARY
- API CELL BOUNDARY
- CRUDE CELL BOUNDARY

0 200 400
Feet

N

FIGURE 2
SITE MAP
BISTI LANDFARM
SEC 16 T25N R12W
SAN JUAN COUNTY, NEW MEXICO
WESTERN REFINING SOUTHWEST, INC.

P:\Western Refining\GIS\MXD\WR1005\WR1005_BISTI_LANDFARM_FIG02_SITEMAP.mxd

FIGURE 3
DELINEATION SAMPLING
LOCATIONS AND RESULTS
BISTI LANDFARM
SEC 16 T25N R12W
SAN JUAN COUNTY, NEW MEXICO
WESTERN REFINING SOUTHWEST, INC.

P:\Western Refining\GIS\MXD\WR1005 BISTI\WR1005_BISTI_LANDFARM_FIG03_DELINEATION_SITEMAP.mxd

TABLES

TABLE 1
VADOSE ZONE SOIL ANALYTICAL RESULTS
BISTI LANDFARM
WESTERN REFINING SOUTHWEST, INC.

	SAMPLE ID	DATE	SAMPLE DEPTH (inches bgs)	TPH			BTEX				CHLORIDE (mg/kg)
				DRO (mg/kg)	MRO (mg/kg)	GRO (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	XYLENES (mg/kg)	
	Baseline	3/27/1998	6	< 50	NA	NA	< 0.050	< 0.050	< 0.050	< 0.05	< 50
CRUDE CELL	Westline S1	3/4/2010	42	< 10	< 50	< 5.0	< 0.050	< 0.050	< 0.050	< 0.10	16
	Westline S2	3/4/2010	42	< 10	< 50	< 5.0	< 0.050	< 0.050	< 0.050	< 0.10	12
	Westline S3	3/4/2010	42	< 10	< 50	< 5.0	< 0.050	< 0.050	< 0.050	< 0.10	< 1.5
	Westline S4	3/4/2010	42	< 10	< 50	< 5.0	< 0.050	< 0.050	< 0.050	< 0.10	2.6
	Eastline S1	3/4/2010	40	< 10	< 50	< 5.0	< 0.050	< 0.050	< 0.050	< 0.10	< 1.5
	Eastline S2	3/4/2010	43	< 10	< 50	< 5.0	< 0.050	< 0.050	< 0.050	< 0.10	2.5
	Eastline S3	3/4/2010	41	< 10	< 50	< 5.0	< 0.050	< 0.050	< 0.050	< 0.10	50
	Eastline S4	3/4/2010	42	< 10	< 50	< 5.0	< 0.050	< 0.050	< 0.050	< 0.10	6.3
	Eastline S5	3/4/2010	44	< 10	< 50	< 5.0	< 0.050	< 0.050	< 0.050	< 0.10	2.4
	Bisti S1	3/4/2010	41	< 10	< 50	< 5.0	< 0.050	< 0.050	< 0.050	< 0.10	8.6
	Bisti S2	3/4/2010	44	< 10	< 50	< 5.0	< 0.050	< 0.050	< 0.050	< 0.10	< 7.5
	Bisti S3	3/4/2010	42	< 10	< 50	< 5.0	< 0.050	< 0.050	< 0.050	< 0.10	5.9
	Bisti S4	3/4/2010	42	35	< 50	< 5.0	< 0.050	< 0.050	< 0.050	< 0.10	9.1
	Pettigrew S1	3/4/2010	42	< 10	< 50	< 5.0	< 0.050	< 0.050	< 0.050	< 0.10	2,500
API CELL	API S1	3/4/2010	44	< 10	< 50	< 5.0	< 0.050	< 0.050	< 0.050	< 0.10	6.5
	API S2	3/4/2010	44	< 10	< 50	< 5.0	< 0.050	< 0.050	< 0.050	< 0.10	10
	API S3	3/4/2010	48	< 10	< 50	< 5.0	< 0.050	< 0.050	< 0.050	< 0.10	150
	API S4	3/4/2010	42	< 10	< 50	< 5.0	< 0.050	< 0.050	< 0.050	< 0.10	1,200
	API S5	3/4/2010	40	< 10	< 50	< 5.0	< 0.050	< 0.050	< 0.050	< 0.10	63
	API S6	3/4/2010	43	< 10	< 50	< 5.0	< 0.050	< 0.050	< 0.050	< 0.10	42
	API S7	3/4/2010	41	< 10	< 50	< 5.0	< 0.050	< 0.050	< 0.050	< 0.10	370
	API S8	3/4/2010	41	< 10	< 50	< 5.0	< 0.050	< 0.050	< 0.050	< 0.10	4.1

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, xylenes

DRO - Diesel Range Organics

GRO - Gasoline Range Organics

mg/kg - milligrams per kilograms

MRO - Motor Oil Range Organics

TPH - Total Petroleum Hydrocarbons

APPENDIX A

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Wednesday, March 17, 2010

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

RE: Bisti Landfarm Delineation

Order No.: 1003166

Dear Bill Robertson:

Hall Environmental Analysis Laboratory, Inc. received 22 sample(s) on 3/8/2010 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.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Mar-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Westline S1
Lab Order:	1003166	**Collection Date:**	3/4/2010 1:10:00 PM
Project:	Bisti Landfarm Delineation	**Date Received:**	3/8/2010
Lab ID:	1003166-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						**Analyst: JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/11/2010 3:36:07 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2010 3:36:07 PM
Surr: DNOP	88.1	61.7-135		%REC	1	3/11/2010 3:36:07 PM
EPA METHOD 8015B: GASOLINE RANGE						**Analyst: DAM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/12/2010 2:51:23 AM
Surr: BFB	94.3	65.9-118		%REC	1	3/12/2010 2:51:23 AM
EPA METHOD 8021B: VOLATILES						**Analyst: DAM**
Benzene	ND	0.050		mg/Kg	1	3/12/2010 2:51:23 AM
Toluene	ND	0.050		mg/Kg	1	3/12/2010 2:51:23 AM
Ethylbenzene	ND	0.050		mg/Kg	1	3/12/2010 2:51:23 AM
Xylenes, Total	ND	0.10		mg/Kg	1	3/12/2010 2:51:23 AM
Surr: 4-Bromofluorobenzene	98.5	64.7-120		%REC	1	3/12/2010 2:51:23 AM
EPA METHOD 300.0: ANIONS						**Analyst: LJB**
Chloride	16	1.5		mg/Kg	1	3/14/2010 4:25:44 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
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Mar-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Westline S2
Lab Order:	1003166	**Collection Date:**	3/4/2010 1:30:00 PM
Project:	Bisti Landfarm Delineation	**Date Received:**	3/8/2010
Lab ID:	1003166-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/11/2010 4:12:20 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2010 4:12:20 PM
Surr: DNOP	88.8	61.7-135		%REC	1	3/11/2010 4:12:20 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/12/2010 3:21:48 AM
Surr: BFB	98.7	65.9-118		%REC	1	3/12/2010 3:21:48 AM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	3/12/2010 3:21:48 AM
Toluene	ND	0.050		mg/Kg	1	3/12/2010 3:21:48 AM
Ethylbenzene	ND	0.050		mg/Kg	1	3/12/2010 3:21:48 AM
Xylenes, Total	ND	0.10		mg/Kg	1	3/12/2010 3:21:48 AM
Surr: 4-Bromofluorobenzene	105	64.7-120		%REC	1	3/12/2010 3:21:48 AM
EPA METHOD 300.0: ANIONS						Analyst: LJB
Chloride	12	1.5		mg/Kg	1	3/14/2010 5:17:58 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
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Mar-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Westline S3
Lab Order:	1003166	**Collection Date:**	3/4/2010 1:37:00 PM
Project:	Bisti Landfarm Delineation	**Date Received:**	3/8/2010
Lab ID:	1003166-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						**Analyst: JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/11/2010 4:48:16 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2010 4:48:16 PM
Surr: DNOP	105	61.7-135		%REC	1	3/11/2010 4:48:16 PM
EPA METHOD 8015B: GASOLINE RANGE						**Analyst: DAM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/12/2010 3:52:06 AM
Surr: BFB	98.8	65.9-118		%REC	1	3/12/2010 3:52:06 AM
EPA METHOD 8021B: VOLATILES						**Analyst: DAM**
Benzene	ND	0.050		mg/Kg	1	3/12/2010 3:52:06 AM
Toluene	ND	0.050		mg/Kg	1	3/12/2010 3:52:06 AM
Ethylbenzene	ND	0.050		mg/Kg	1	3/12/2010 3:52:06 AM
Xylenes, Total	ND	0.10		mg/Kg	1	3/12/2010 3:52:06 AM
Surr: 4-Bromofluorobenzene	103	64.7-120		%REC	1	3/12/2010 3:52:06 AM
EPA METHOD 300.0: ANIONS						**Analyst: LJB**
Chloride	ND	1.5		mg/Kg	1	3/14/2010 5:35:23 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
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Mar-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Westline S4
Lab Order:	1003166	**Collection Date:**	3/4/2010 4:25:00 PM
Project:	Bisti Landfarm Delineation	**Date Received:**	3/8/2010
Lab ID:	1003166-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						**Analyst: JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/11/2010 5:24:45 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2010 5:24:45 PM
Surr: DNOP	97.0	61.7-135		%REC	1	3/11/2010 5:24:45 PM
EPA METHOD 8015B: GASOLINE RANGE						**Analyst: DAM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/12/2010 12:57:19 PM
Surr: BFB	92.0	66.9-118		%REC	1	3/12/2010 12:57:19 PM
EPA METHOD 8021B: VOLATILES						**Analyst: DAM**
Benzene	ND	0.050		mg/Kg	1	3/12/2010 12:57:19 PM
Toluene	ND	0.050		mg/Kg	1	3/12/2010 12:57:19 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/12/2010 12:57:19 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/12/2010 12:57:19 PM
Surr: 4-Bromofluorobenzene	96.9	64.7-120		%REC	1	3/12/2010 12:57:19 PM
EPA METHOD 300.0: ANIONS						**Analyst: LJB**
Chloride	2.6	1.5		mg/Kg	1	3/15/2010 10:58:26 AM

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
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Mar-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	EastLine S1
Lab Order:	1003166	**Collection Date:**	3/4/2010 1:50:00 PM
Project:	Bisti Landfarm Delineation	**Date Received:**	3/8/2010
Lab ID:	1003166-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/11/2010 6:01:13 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2010 6:01:13 PM
Surr: DNOP	85.6	61.7-135		%REC	1	3/11/2010 6:01:13 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/12/2010 1:27:40 PM
Surr: BFB	101	65.9-118		%REC	1	3/12/2010 1:27:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	3/12/2010 1:27:40 PM
Toluene	ND	0.050		mg/Kg	1	3/12/2010 1:27:40 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/12/2010 1:27:40 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/12/2010 1:27:40 PM
Surr: 4-Bromofluorobenzene	107	64.7-120		%REC	1	3/12/2010 1:27:40 PM
EPA METHOD 300.0: ANIONS						Analyst: LJB
Chloride	ND	1.5		mg/Kg	1	3/14/2010 6:10:13 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
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Mar-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	EastLine S3
Lab Order:	1003166	**Collection Date:**	3/4/2010 2:23:00 PM
Project:	Bisti Landfarm Delineation	**Date Received:**	3/8/2010
Lab ID:	1003166-06	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/11/2010 7:13:09 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2010 7:13:09 PM
Surr: DNOP	89.1	61.7-135		%REC	1	3/11/2010 7:13:09 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/12/2010 1:57:58 PM
Surr: BFB	99.7	65.9-118		%REC	1	3/12/2010 1:57:58 PM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	3/12/2010 1:57:58 PM
Toluene	ND	0.050		mg/Kg	1	3/12/2010 1:57:58 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/12/2010 1:57:58 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/12/2010 1:57:58 PM
Surr: 4-Bromofluorobenzene	104	64.7-120		%REC	1	3/12/2010 1:57:58 PM
EPA METHOD 300.0: ANIONS						Analyst: LJB
Chloride	50	1.5		mg/Kg	1	3/14/2010 6:27:38 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
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Mar-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	EastLine S2
Lab Order:	1003166	**Collection Date:**	3/4/2010 2:10:00 PM
Project:	Bisti Landfarm Delineation	**Date Received:**	3/8/2010
Lab ID:	1003166-07	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/11/2010 7:49:07 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2010 7:49:07 PM
Surr: DNOP	85.9	61.7-135		%REC	1	3/11/2010 7:49:07 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/12/2010 2:28:10 PM
Surr: BFB	96.1	65.9-118		%REC	1	3/12/2010 2:28:10 PM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	3/12/2010 2:28:10 PM
Toluene	ND	0.050		mg/Kg	1	3/12/2010 2:28:10 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/12/2010 2:28:10 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/12/2010 2:28:10 PM
Surr: 4-Bromofluorobenzene	101	64.7-120		%REC	1	3/12/2010 2:28:10 PM
EPA METHOD 300.0: ANIONS						Analyst: LJB
Chloride	2.5	1.5		mg/Kg	1	3/14/2010 7:19:51 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
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Mar-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	EastLine S4
Lab Order:	1003166	**Collection Date:**	3/4/2010 2:28:00 PM
Project:	Bisti Landfarm Delineation	**Date Received:**	3/8/2010
Lab ID:	1003166-08	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/11/2010 8:25:05 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2010 8:25:05 PM
Surr: DNOP	90.2	61.7-135		%REC	1	3/11/2010 8:25:05 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/12/2010 2:58:29 PM
Surr: BFB	91.9	66.9-118		%REC	1	3/12/2010 2:58:29 PM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	3/12/2010 2:58:29 PM
Toluene	ND	0.050		mg/Kg	1	3/12/2010 2:58:29 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/12/2010 2:58:29 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/12/2010 2:58:29 PM
Surr: 4-Bromofluorobenzene	96.6	64.7-120		%REC	1	3/12/2010 2:58:29 PM
EPA METHOD 300.0: ANIONS						Analyst: LJB
Chloride	6.3	1.5		mg/Kg	1	3/14/2010 7:37:15 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
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Mar-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	EastLine S5
Lab Order:	1003166	**Collection Date:**	3/4/2010 2:36:00 PM
Project:	Bisti Landfarm Delineation	**Date Received:**	3/8/2010
Lab ID:	1003166-09	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						**Analyst: JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/11/2010 9:01:03 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2010 9:01:03 PM
Surr: DNOP	88.1	61.7-135		%REC	1	3/11/2010 9:01:03 PM
EPA METHOD 8015B: GASOLINE RANGE						**Analyst: DAM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/12/2010 3:28:50 PM
Surr: BFB	99.7	66.9-116		%REC	1	3/12/2010 3:28:50 PM
EPA METHOD 8021B: VOLATILES						**Analyst: DAM**
Benzene	ND	0.050		mg/Kg	1	3/12/2010 3:28:50 PM
Toluene	ND	0.050		mg/Kg	1	3/12/2010 3:28:50 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/12/2010 3:28:50 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/12/2010 3:28:50 PM
Surr: 4-Bromofluorobenzene	106	64.7-120		%REC	1	3/12/2010 3:28:50 PM
EPA METHOD 300.0: ANIONS						**Analyst: LJB**
Chloride	2.4	1.5		mg/Kg	1	3/14/2010 7:54:40 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
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Mar-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Bisti S1
Lab Order:	1003166	**Collection Date:**	3/4/2010 2:48:00 PM
Project:	Bisti Landfarm Delineation	**Date Received:**	3/8/2010
Lab ID:	1003166-10	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						**Analyst: JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/11/2010 9:36:44 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2010 9:36:44 PM
Surr: DNOP	98.2	61.7-135		%REC	1	3/11/2010 9:36:44 PM
EPA METHOD 8015B: GASOLINE RANGE						**Analyst: DAM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/12/2010 3:59:09 PM
Surr: BFB	99.9	66.9-118		%REC	1	3/12/2010 3:59:09 PM
EPA METHOD 8021B: VOLATILES						**Analyst: DAM**
Benzene	ND	0.050		mg/Kg	1	3/12/2010 3:59:09 PM
Toluene	ND	0.050		mg/Kg	1	3/12/2010 3:59:09 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/12/2010 3:59:09 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/12/2010 3:59:09 PM
Surr: 4-Bromofluorobenzene	106	64.7-120		%REC	1	3/12/2010 3:59:09 PM
EPA METHOD 300.0: ANIONS						**Analyst: LJB**
Chloride	8.6	1.5		mg/Kg	1	3/15/2010 11:15:51 AM

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
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Mar-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Bisti S2
Lab Order:	1003166	**Collection Date:**	3/4/2010 3:00:00 PM
Project:	Bisti Landfarm Delineation	**Date Received:**	3/8/2010
Lab ID:	1003166-11	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						**Analyst: JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/11/2010 10:12:26 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2010 10:12:26 PM
Surr: DNOP	86.9	61.7-135		%REC	1	3/11/2010 10:12:26 PM
EPA METHOD 8015B: GASOLINE RANGE						**Analyst: DAM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/12/2010 4:29:24 PM
Surr: BFB	102	65.9-118		%REC	1	3/12/2010 4:29:24 PM
EPA METHOD 8021B: VOLATILES						**Analyst: DAM**
Benzene	ND	0.050		mg/Kg	1	3/12/2010 4:29:24 PM
Toluene	ND	0.050		mg/Kg	1	3/12/2010 4:29:24 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/12/2010 4:29:24 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/12/2010 4:29:24 PM
Surr: 4-Bromofluorobenzene	109	64.7-120		%REC	1	3/12/2010 4:29:24 PM
EPA METHOD 300.0: ANIONS						**Analyst: LJB**
Chloride	ND	7.5		mg/Kg	5	3/14/2010 8:29:29 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
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Mar-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Bisti S3
Lab Order:	1003166	**Collection Date:**	3/4/2010 3:15:00 PM
Project:	Bisti Landfarm Delineation	**Date Received:**	3/8/2010
Lab ID:	1003166-12	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						**Analyst: JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/11/2010 10:48:08 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2010 10:48:08 PM
Surr: DNOP	87.9	61.7-135		%REC	1	3/11/2010 10:48:08 PM
EPA METHOD 8015B: GASOLINE RANGE						**Analyst: DAM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/12/2010 4:59:53 PM
Surr: BFB	97.1	65.9-118		%REC	1	3/12/2010 4:59:53 PM
EPA METHOD 8021B: VOLATILES						**Analyst: DAM**
Benzene	ND	0.050		mg/Kg	1	3/12/2010 4:59:53 PM
Toluene	ND	0.050		mg/Kg	1	3/12/2010 4:59:53 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/12/2010 4:59:53 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/12/2010 4:59:53 PM
Surr: 4-Bromofluorobenzene	102	64.7-120		%REC	1	3/12/2010 4:59:53 PM
EPA METHOD 300.0: ANIONS						**Analyst: LJB**
Chloride	5.9	1.5		mg/Kg	1	3/14/2010 9:21:43 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
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Mar-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Bisti S4
Lab Order:	1003166	**Collection Date:**	3/4/2010 3:25:00 PM
Project:	Bisti Landfarm Delineation	**Date Received:**	3/8/2010
Lab ID:	1003166-13	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						**Analyst: JB**
Diesel Range Organics (DRO)	35	10		mg/Kg	1	3/11/2010 11:23:49 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2010 11:23:49 PM
Surr: DNOP	89.3	61.7-135		%REC	1	3/11/2010 11:23:49 PM
EPA METHOD 8015B: GASOLINE RANGE						**Analyst: DAM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/12/2010 5:30:10 PM
Surr: BFB	99.8	65.9-118		%REC	1	3/12/2010 5:30:10 PM
EPA METHOD 8021B: VOLATILES						**Analyst: DAM**
Benzene	ND	0.050		mg/Kg	1	3/12/2010 5:30:10 PM
Toluene	ND	0.050		mg/Kg	1	3/12/2010 5:30:10 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/12/2010 5:30:10 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/12/2010 5:30:10 PM
Surr: 4-Bromofluorobenzene	105	64.7-120		%REC	1	3/12/2010 5:30:10 PM
EPA METHOD 300.0: ANIONS						**Analyst: LJB**
Chloride	9.1	7.5		mg/Kg	5	3/14/2010 9:39:08 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
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Mar-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Pettigrew S1
Lab Order:	1003166	**Collection Date:**	3/4/2010 3:19:00 PM
Project:	Bisti Landfarm Delineation	**Date Received:**	3/8/2010
Lab ID:	1003166-14	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/11/2010 11:59:31 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2010 11:59:31 PM
Surr: DNOP	87.1	61.7-135		%REC	1	3/11/2010 11:59:31 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/12/2010 10:33:34 PM
Surr: BFB	99.5	65.9-118		%REC	1	3/12/2010 10:33:34 PM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	3/12/2010 10:33:34 PM
Toluene	ND	0.050		mg/Kg	1	3/12/2010 10:33:34 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/12/2010 10:33:34 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/12/2010 10:33:34 PM
Surr: 4-Bromofluorobenzene	105	64.7-120		%REC	1	3/12/2010 10:33:34 PM
EPA METHOD 300.0: ANIONS						Analyst: LJB
Chloride	2500	75		mg/Kg	50	3/15/2010 9:31:24 AM

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
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Mar-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	API S1
Lab Order:	1003166	**Collection Date:**	3/4/2010 3:27:00 PM
Project:	Bisti Landfarm Delineation	**Date Received:**	3/8/2010
Lab ID:	1003166-15	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/12/2010 12:35:14 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/12/2010 12:35:14 AM
Surr: DNOP	91.0	61.7-135		%REC	1	3/12/2010 12:35:14 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/12/2010 11:03:49 PM
Surr: BFB	98.4	65.9-118		%REC	1	3/12/2010 11:03:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	3/12/2010 11:03:49 PM
Toluene	ND	0.050		mg/Kg	1	3/12/2010 11:03:49 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/12/2010 11:03:49 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/12/2010 11:03:49 PM
Surr: 4-Bromofluorobenzene	104	64.7-120		%REC	1	3/12/2010 11:03:49 PM
EPA METHOD 300.0: ANIONS						Analyst: LJB
Chloride	6.5	1.5		mg/Kg	1	3/14/2010 10:48:46 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
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Mar-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	API S2
Lab Order:	1003166	**Collection Date:**	3/4/2010 3:35:00 PM
Project:	Bisti Landfarm Delineation	**Date Received:**	3/8/2010
Lab ID:	1003166-16	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/12/2010 1:46:53 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/12/2010 1:46:53 AM
Surr: DNOP	89.2	61.7-135		%REC	1	3/12/2010 1:46:53 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/12/2010 11:34:05 PM
Surr: BFB	98.7	65.9-118		%REC	1	3/12/2010 11:34:05 PM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	3/12/2010 11:34:05 PM
Toluene	ND	0.050		mg/Kg	1	3/12/2010 11:34:05 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/12/2010 11:34:05 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/12/2010 11:34:05 PM
Surr: 4-Bromofluorobenzene	104	64.7-120		%REC	1	3/12/2010 11:34:05 PM
EPA METHOD 300.0: ANIONS						Analyst: LJB
Chloride	10	1.5		mg/Kg	1	3/14/2010 11:06:10 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
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Mar-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	API S3
Lab Order:	1003166	**Collection Date:**	3/4/2010 3:42:00 PM
Project:	Bisti Landfarm Delineation	**Date Received:**	3/8/2010
Lab ID:	1003166-17	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						**Analyst: JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/12/2010 3:33:27 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/12/2010 3:33:27 AM
Surr: DNOP	89.0	61.7-135		%REC	1	3/12/2010 3:33:27 AM
EPA METHOD 8015B: GASOLINE RANGE						**Analyst: DAM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/13/2010 12:04:20 AM
Surr: BFB	98.1	65.9-118		%REC	1	3/13/2010 12:04:20 AM
EPA METHOD 8021B: VOLATILES						**Analyst: DAM**
Benzene	ND	0.050		mg/Kg	1	3/13/2010 12:04:20 AM
Toluene	ND	0.050		mg/Kg	1	3/13/2010 12:04:20 AM
Ethylbenzene	ND	0.050		mg/Kg	1	3/13/2010 12:04:20 AM
Xylenes, Total	ND	0.10		mg/Kg	1	3/13/2010 12:04:20 AM
Surr: 4-Bromofluorobenzene	102	64.7-120		%REC	1	3/13/2010 12:04:20 AM
EPA METHOD 300.0: ANIONS						**Analyst: LJB**
Chloride	150	7.5		mg/Kg	5	3/15/2010 9:48:49 AM

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
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Mar-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	API S4
Lab Order:	1003166	**Collection Date:**	3/4/2010 3:48:00 PM
Project:	Bisti Landfarm Delineation	**Date Received:**	3/8/2010
Lab ID:	1003166-18	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/12/2010 4:08:54 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/12/2010 4:08:54 AM
Surr: DNOP	102	61.7-135		%REC	1	3/12/2010 4:08:54 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/13/2010 12:34:45 AM
Surr: BFB	94.9	65.9-118		%REC	1	3/13/2010 12:34:45 AM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	3/13/2010 12:34:45 AM
Toluene	ND	0.050		mg/Kg	1	3/13/2010 12:34:45 AM
Ethylbenzene	ND	0.050		mg/Kg	1	3/13/2010 12:34:45 AM
Xylenes, Total	ND	0.10		mg/Kg	1	3/13/2010 12:34:45 AM
Surr: 4-Bromofluorobenzene	98.3	64.7-120		%REC	1	3/13/2010 12:34:45 AM
EPA METHOD 300.0: ANIONS						Analyst: LJB
Chloride	1200	75		mg/Kg	50	3/15/2010 10:06:13 AM

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
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Mar-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	API S5
Lab Order:	1003166	**Collection Date:**	3/4/2010 3:56:00 PM
Project:	Bisti Landfarm Delineation	**Date Received:**	3/8/2010
Lab ID:	1003166-19	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						**Analyst: JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/12/2010 4:44:52 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/12/2010 4:44:52 AM
Surr: DNOP	89.5	61.7-135		%REC	1	3/12/2010 4:44:52 AM
EPA METHOD 8015B: GASOLINE RANGE						**Analyst: DAM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/13/2010 1:05:00 AM
Surr: BFB	94.8	65.9-118		%REC	1	3/13/2010 1:05:00 AM
EPA METHOD 8021B: VOLATILES						**Analyst: DAM**
Benzene	ND	0.050		mg/Kg	1	3/13/2010 1:05:00 AM
Toluene	ND	0.050		mg/Kg	1	3/13/2010 1:05:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	3/13/2010 1:05:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	3/13/2010 1:05:00 AM
Surr: 4-Bromofluorobenzene	97.7	64.7-120		%REC	1	3/13/2010 1:05:00 AM
EPA METHOD 300.0: ANIONS						**Analyst: LJB**
Chloride	63	7.5		mg/Kg	5	3/16/2010 10:23:37 AM

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
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Mar-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	API S6
Lab Order:	1003166	**Collection Date:**	3/4/2010 4:02:00 PM
Project:	Bisti Landfarm Delineation	**Date Received:**	3/8/2010
Lab ID:	1003166-20	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						**Analyst: JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/12/2010 5:21:04 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/12/2010 5:21:04 AM
Surr: DNOP	99.8	61.7-135		%REC	1	3/12/2010 5:21:04 AM
EPA METHOD 8015B: GASOLINE RANGE						**Analyst: DAM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/13/2010 12:58:00 PM
Surr: BFB	103	65.9-118		%REC	1	3/13/2010 12:58:00 PM
EPA METHOD 8021B: VOLATILES						**Analyst: DAM**
Benzene	ND	0.050		mg/Kg	1	3/13/2010 12:58:00 PM
Toluene	ND	0.050		mg/Kg	1	3/13/2010 12:58:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/13/2010 12:58:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/13/2010 12:58:00 PM
Surr: 4-Bromofluorobenzene	107	64.7-120		%REC	1	3/13/2010 12:58:00 PM
EPA METHOD 300.0: ANIONS						**Analyst: LJB**
Chloride	42	1.5		mg/Kg	1	3/15/2010 1:00:18 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
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Mar-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	API S7
Lab Order:	1003166	**Collection Date:**	3/4/2010 4:11:00 PM
Project:	Bisti Landfarm Delineation	**Date Received:**	3/8/2010
Lab ID:	1003166-21	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						**Analyst: JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/12/2010 5:57:17 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/12/2010 5:57:17 AM
Surr: DNOP	90.4	61.7-135		%REC	1	3/12/2010 5:57:17 AM
EPA METHOD 8015B: GASOLINE RANGE						**Analyst: NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/11/2010 1:21:34 AM
Surr: BFB	89.9	65.9-118		%REC	1	3/11/2010 1:21:34 AM
EPA METHOD 8021B: VOLATILES						**Analyst: NSB**
Benzene	ND	0.050		mg/Kg	1	3/11/2010 1:21:34 AM
Toluene	ND	0.050		mg/Kg	1	3/11/2010 1:21:34 AM
Ethylbenzene	ND	0.050		mg/Kg	1	3/11/2010 1:21:34 AM
Xylenes, Total	ND	0.10		mg/Kg	1	3/11/2010 1:21:34 AM
Surr: 4-Bromofluorobenzene	90.1	64.7-120		%REC	1	3/11/2010 1:21:34 AM
EPA METHOD 300.0: ANIONS						**Analyst: LJB**
Chloride	370	15		mg/Kg	10	3/15/2010 10:41:02 AM

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
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Mar-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	API S8
Lab Order:	1003166	**Collection Date:**	3/4/2010 4:15:00 PM
Project:	Bisti Landfarm Delineation	**Date Received:**	3/8/2010
Lab ID:	1003166-22	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/12/2010 6:33:34 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/12/2010 6:33:34 AM
Surr: DNOP	102	61.7-135		%REC	1	3/12/2010 6:33:34 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/11/2010 5:15:25 PM
Surr: BFB	95.1	66.9-118		%REC	1	3/11/2010 5:15:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	3/11/2010 5:15:25 PM
Toluene	ND	0.050		mg/Kg	1	3/11/2010 5:15:25 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/11/2010 5:15:25 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/11/2010 5:15:25 PM
Surr: 4-Bromofluorobenzene	101	64.7-120		%REC	1	3/11/2010 5:15:25 PM
EPA METHOD 300.0: ANIONS						Analyst: LJB
Chloride	4.1	1.5		mg/Kg	1	3/15/2010 1:25:27 AM

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
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Inc.
Project: Bisti Landfarm Delineation **Work Order:** 1003166

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: 1003166-01AMSD		*MSD*				**Batch ID: 21620**		**Analysis Date: 3/14/2010 5:00:34 PM**			
Chloride	30.90	mg/Kg	1.5	15	15.56	102	53.9	146	6.39	20	
Sample ID: 1003166-11AMSD		*MSD*				**Batch ID: 21620**		**Analysis Date: 3/14/2010 9:04:18 PM**			
Chloride	18.74	mg/Kg	7.5	15	5.1	91.0	53.9	146	2.96	20	
Sample ID: MB-21620		*MBLK*				**Batch ID: 21620**		**Analysis Date: 3/14/2010 3:50:56 PM**			
Chloride	ND	mg/Kg	1.5								
Sample ID: MB-21651		*MBLK*				**Batch ID: 21651**		**Analysis Date: 3/15/2010 12:33:13 AM**			
Chloride	ND	mg/Kg	1.5								
Sample ID: LCS-21620		*LCS*				**Batch ID: 21620**		**Analysis Date: 3/14/2010 4:08:20 PM**			
Chloride	14.93	mg/Kg	1.5	15	0	99.5	90	110			
Sample ID: LCS-21651		*LCS*				**Batch ID: 21651**		**Analysis Date: 3/15/2010 12:50:38 AM**			
Chloride	15.06	mg/Kg	1.5	15	0	100	90	110			
Sample ID: 1003166-01AMS		*MS*				**Batch ID: 21620**		**Analysis Date: 3/14/2010 4:43:09 PM**			
Chloride	28.99	mg/Kg	1.5	15	15.56	89.6	53.9	146			
Sample ID: 1003166-11AMS		*MS*				**Batch ID: 21620**		**Analysis Date: 3/14/2010 8:46:54 PM**			
Chloride	19.31	mg/Kg	7.5	15	5.1	94.7	53.9	146			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Inc.
Project: Bisti Landfarm Delineation **Work Order:** 1003166

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: 1003166-17AMSD		*MSD*				**Batch ID:**	**21601**	**Analysis Date:**		**3/12/2010 2:58:00 AM**	
Diesel Range Organics (DRO)	37.82	mg/Kg	10	50	0	75.6	67.4	117	0.557	17.4	
Motor Oil Range Organics (MRO)	ND	mg/Kg	50						0	0	
Sample ID: 1003166-01AMSD		*MSD*				**Batch ID:**	**21596**	**Analysis Date:**		**3/13/2010 9:45:36 PM**	
Diesel Range Organics (DRO)	51.76	mg/Kg	10	50	0	104	67.4	117	22.7	17.4	R
Sample ID: MB-21596		*MBLK*				**Batch ID:**	**21596**	**Analysis Date:**		**3/11/2010 1:07:04 AM**	
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: MB-21601		*MBLK*				**Batch ID:**	**21601**	**Analysis Date:**		**3/11/2010 5:52:24 AM**	
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-21596		*LCS*				**Batch ID:**	**21596**	**Analysis Date:**		**3/11/2010 1:42:31 AM**	
Diesel Range Organics (DRO)	39.19	mg/Kg	10	50	0	78.4	64.6	116			
Sample ID: LCS-21601		*LCS*				**Batch ID:**	**21601**	**Analysis Date:**		**3/11/2010 6:26:38 AM**	
Diesel Range Organics (DRO)	44.57	mg/Kg	10	50	0	89.1	64.6	116			
Sample ID: LCSD-21596		*LCSD*				**Batch ID:**	**21596**	**Analysis Date:**		**3/11/2010 2:17:58 AM**	
Diesel Range Organics (DRO)	40.05	mg/Kg	10	50	0	80.1	64.6	116	2.19	17.4	
Sample ID: LCSD-21601		*LCSD*				**Batch ID:**	**21601**	**Analysis Date:**		**3/11/2010 7:04:50 AM**	
Diesel Range Organics (DRO)	45.37	mg/Kg	10	50	0	90.7	64.6	116	1.79	17.4	
Sample ID: 1003166-01AMS		*MS*				**Batch ID:**	**21596**	**Analysis Date:**		**3/11/2010 2:23:40 PM**	
Diesel Range Organics (DRO)	41.20	mg/Kg	10	50	0	82.4	67.4	117			
Sample ID: 1003166-17AMS		*MS*				**Batch ID:**	**21601**	**Analysis Date:**		**3/12/2010 2:22:34 AM**	
Diesel Range Organics (DRO)	37.61	mg/Kg	10	50	0	75.2	67.4	117			
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Inc.
Project: Bisti Landfarm Delineation **Work Order:** 1003166

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1003166-21A MSD		*MSD*				Batch ID:	21591	Analysis Date:		3/11/2010 2:21:51 AM	
Gasoline Range Organics (GRO)	25.61	mg/Kg	5.0	25	0	102	69.5	120	5.47	11.6	
Sample ID: 1003166-01A MSD		*MSD*				Batch ID:	21590	Analysis Date:		3/12/2010 4:52:46 AM	
Gasoline Range Organics (GRO)	24.38	mg/Kg	5.0	25	0	97.5	69.5	120	12.6	11.6	R
Sample ID: MB-21591		*MBLK*				Batch ID:	21591	Analysis Date:		3/11/2010 4:53:25 AM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: MB-21590		*MBLK*				Batch ID:	21590	Analysis Date:		3/12/2010 5:53:20 AM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-21591		*LCS*				Batch ID:	21591	Analysis Date:		3/11/2010 2:52:04 AM	
Gasoline Range Organics (GRO)	24.65	mg/Kg	5.0	25	1.71	91.8	77.7	135			
Sample ID: LCS-21590		*LCS*				Batch ID:	21590	Analysis Date:		3/12/2010 5:23:05 AM	
Gasoline Range Organics (GRO)	23.96	mg/Kg	5.0	25	1.72	89.0	77.7	135			
Sample ID: 1003166-21A MS		*MS*				Batch ID:	21591	Analysis Date:		3/11/2010 1:51:46 AM	
Gasoline Range Organics (GRO)	27.05	mg/Kg	5.0	25	0	108	69.5	120			
Sample ID: 1003166-01A MS		*MS*				Batch ID:	21590	Analysis Date:		3/12/2010 4:22:25 AM	
Gasoline Range Organics (GRO)	21.48	mg/Kg	5.0	25	0	85.9	69.5	120			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Inc.
Project: Bisti Landfarm Delineation
Work Order: 1003166

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 1003166-21A MSD		*MSD*			Batch ID:	21591		Analysis Date:		3/11/2010 3:52:43 AM	
Benzene	0.9933	mg/Kg	0.050	1	0.0115	98.2	78.8	132	5.85	27	
Toluene	0.9511	mg/Kg	0.050	1	0	95.1	78.9	112	5.70	19	
Ethylbenzene	1.014	mg/Kg	0.050	1	0	101	69.3	125	6.95	10	
Xylenes, Total	3.029	mg/Kg	0.10	3	0	101	73	128	5.27	13	
Sample ID: 1003166-01A MSD		*MSD*			Batch ID:	21590		Analysis Date:		3/11/2010 8:17:11 PM	
Benzene	0.8421	mg/Kg	0.050	1	0.0143	82.8	78.8	132	5.97	27	
Toluene	0.7913	mg/Kg	0.050	1	0	79.1	78.9	112	11.3	19	
Ethylbenzene	0.8469	mg/Kg	0.050	1	0	84.7	69.3	125	9.10	10	
Xylenes, Total	2.545	mg/Kg	0.10	3	0	84.8	73	128	8.50	13	
Sample ID: MB-21591		*MBLK*			Batch ID:	21591		Analysis Date:		3/11/2010 4:53:25 AM	
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: MB-21590		*MBLK*			Batch ID:	21590		Analysis Date:		3/12/2010 5:53:20 AM	
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-21590		*LCS*			Batch ID:	21590		Analysis Date:		3/11/2010 8:47:40 PM	
Benzene	0.8630	mg/Kg	0.050	1	0.0134	85.0	78.8	132			
Toluene	0.7938	mg/Kg	0.050	1	0	79.4	78.9	112			
Ethylbenzene	0.8531	mg/Kg	0.050	1	0	85.3	69.3	125			
Xylenes, Total	2.577	mg/Kg	0.10	3	0	85.9	73	128			
Sample ID: LCS-21591		*LCS*			Batch ID:	21591		Analysis Date:		3/13/2010 5:07:36 AM	
Benzene	0.9411	mg/Kg	0.050	1	0	94.1	78.8	132			
Toluene	0.9154	mg/Kg	0.050	1	0	91.5	78.9	112			
Ethylbenzene	0.9505	mg/Kg	0.050	1	0	95.1	69.3	125			
Xylenes, Total	2.811	mg/Kg	0.10	3	0	93.7	73	128			
Sample ID: 1003166-21A MS		*MS*			Batch ID:	21591		Analysis Date:		3/11/2010 3:22:26 AM	
Benzene	0.9368	mg/Kg	0.050	1	0.0115	92.5	78.8	132			
Toluene	0.8984	mg/Kg	0.050	1	0	89.8	78.9	112			
Ethylbenzene	0.9455	mg/Kg	0.050	1	0	94.6	69.3	125			
Xylenes, Total	2.873	mg/Kg	0.10	3	0	95.8	73	128			
Sample ID: 1003166-01A MS		*MS*			Batch ID:	21590		Analysis Date:		3/11/2010 7:46:58 PM	
Benzene	0.8939	mg/Kg	0.050	1	0.0143	88.0	78.8	132			
Toluene	0.8863	mg/Kg	0.050	1	0	88.6	78.9	112			
Ethylbenzene	0.9276	mg/Kg	0.050	1	0	92.8	69.3	125			
Xylenes, Total	2.771	mg/Kg	0.10	3	0	92.4	73	128			

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **WESTERN REFINING SOUT** Date Received: **3/8/2010**

Work Order Number **1003166** Received by: **AMF**

Checklist completed by: _____ 3/8/10 Sample ID labels checked by: _____
Signature Date 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 ☐		Number of preserved bottles checked for pH:
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 ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?	**4.2°**	*<6° C Acceptable* 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 #: 505.632.4035
email or Fax#:
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush
Project Name: Bisti Landfarm Delineation
Project #:
Project Manager: Ashley Ager
Sampler: Devin Hencmann
On Ice: ☒ YES ☐ NO
Sample Temperature: 2°C

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. 1003120	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	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)	Chlorides 300.0					Air Bubbles (Y or N)
3/4/10	13:10	Soil	Westline S1	4oz / 1	NONE	1	X		X									X					
3.4.10	13:30	Soil	Westline S2	4oz / 1	NONE	2	X		X									X					
3.4.10	13:37	Soil	Westline S3	4oz / 1	NONE	3	X		X									X					
3.4.10	16:25	Soil	Westline S4	4oz / 1	NONE	4	X		X									X					
3.4.10	13:50	Soil	Eastline S1	4oz / 1	NONE	5	X		X									X					
3.4.10	14:23	Soil	Eastline S3	4oz / 1	NONE	6	X		X									X					
3.4.10	14:10	Soil	Eastline S2	4oz / 1	NONE	7	X		X									X					
3.4.10	14:28	Soil	Eastline S4	4oz / 1	NONE	8	X		X									X					
3.4.10	14:36	Soil	Eastline S5	4oz / 1	NONE	9	X		X									X					
3.4.10	14:48	Soil	Bisti S1	4oz / 1	NONE	10	X		X									X					
3.4.10	1500	Soil	Bisti S2	4oz / 1	None	11	X		X									X					
3.4.10	1515	Soil	Bisti S3	4oz / 1	None	12	X		X									X					

Date:	Time:	Relinquished by:	Received by:	Date	Time
3/5/10	17:00			3/5/10	10:00
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Please copy results to: aager@ltenv.com

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

Hall Kelly Tool

Chain-of-Custody Record

Client: Western Refining
111 CR 4990
Mailing Address: Bloomfield NM 87413
Phone #: 505-632-4035
email or Fax#:
QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush
Project Name: Bisti Landfarm Delineation
Project #:
Project Manager: Ashley Ager
Sampler: Devin Hencmann
On Ice: Yes
Sample Temperature: 0.5°C

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. 1203	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	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)	Chlorides 300.0	Air Bubbles (Y or N)
4.10	15:25	Soil	Bisti S4	4oz/1	NONE	13	X		X									X	
4.10	15:19	Soil	Pettigrew S1	4oz/1	NONE	14	X		X									X	
4.10	15:27	Soil	API S1	4oz/1	NONE	15	X		X									X	
4.10	15:35	Soil	API S2	4oz/1	NONE	16	X		X									X	
4.10	1542	Soil	API S3	4oz/1	NONE	17	X		X									X	
4.10	1548	Soil	API S4	4oz/1	NONE	18	X		X									X	
4.10	1556	Soil	API S5	4oz/1	NONE	19	X		X									X	
4.10	1602	Soil	API S6	4oz/1	NONE	20	X		X									X	
4.10	16:11	Soil	API S7	4oz/1	NONE	21	X		X									X	
4.10	16:15	Soil	API S8	4oz/1	NONE	22	X		X									X	

Date	Time	Relinquished by:	Received by:	Date	Time
4/5/10	11:00			3/6/10	10:00
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Please copy results to aager@altenv.com

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OIL CON ·DIVISION
ENERGY ..ERALS AND
NATURAL RESOURCES DEPARTMENT
1220 SOUTH SAINT FRANCIS DRIVE
SANTA FE, NEW MEXICO 87505

Hasler
05/28/2015
US POSTAGE
FIRST-CLASS MAIL
$00.48⁰
ZIP 87505
011D11633716

RECEIVED OCD
2015 JUN -3 P 3:14

Kelly Robinson
Western Refining Southwest, Inc.
50 County Ro[illegible]
Bloomfield, N[illegible]

NIXIE 871 DE 1009 0005/31/15
RETURN TO SENDER
NO SUCH NUMBER
UNABLE TO FORWARD
BC: 87505422599 *0968-06287-29-03

87[illegible]