# NM2 - \_10\_

# RELEASE RESPONSE NOTICE

# \_April 22, 2020\_

Re: Attn: Brad Jones Bisti Landfarm (711 permit NM-02-0010) Release notification

X DELETE

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→ FORWARD



Enviro, OCD, EMNRD Thu 4/23/2020 8:34 AM

To: Devin Hencmann <dhencmann@ltenv.com>;

Brad Jones

Devin,

Thank you for providing notice and implementing the additional sampling required of 19.15.36.15.E(5) NMAC.

Brad

**Brad A. Jones** Environmental Engineer EMNRD Oil Conservation Division 1220 S. Saint Francis Drive Santa Fe, New Mexico 87505 E-mail: <u>brad.a.jones@state.nm.us</u> Office: (505) 476-3487 Fax: (505) 476-3462

From: Devin Hencmann <dhencmann@ltenv.com> Sent: Wednesday, April 22, 2020 3:03 PM To: Enviro, OCD, EMNRD Subject: [EXT] Attn: Brad Jones Bisti Landfarm (711 permit NM-02-0010) Release notification

Brad,

Please see the attached release notification for the Bisti Landfarm.

Let me know if you have any questions or Comments.

Thank you, Devin



Devin Hencmann Project Geologist (970) 385-1096 office (970) 403-6023 cell 848 East 2<sup>nd</sup> Avenue, Durango CO 81301 <u>www.ltenv.com</u>



LT Environmental, Inc.

848 East Second Avenue Durango, Colorado 81301 970.385.1096

April 16, 2020

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

RE: Notification of Release 711 Permit NM-02-0010 Western Refining Southwest, Inc. Bisti Landfarm San Juan County, New Mexico

Dear Mr. Jones:

On behalf of Western Refining Southwest, Inc. (Western), LT Environmental (LTE) is submitting soil-sampling data collected at the Bisti Landfarm (the Site) on March 9<sup>th</sup>, during the first quarter of 2020 (Figure 1). Soil sampling activities were performed in accordance with New Mexico Landfarm permit Number NM-02-0010 (approved under "Rule 711") and the current requirements set forth in 19.15.36.15 of the New Mexico Administrative Code (NMAC), also known as "Rule 36". Results of the sampling are presented below, and this report serves as notification that certain constituents exceed the higher of the physical quantification limit (PQL) or background soil concentrations.

#### SITE DESCRIPTION

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). Petroleum hydrocarbon-impacted soil was originally disposed of at the Site in three treatment cells depending of the origin of the soil: the API Cell, Crude Cell, and Cell 1 (which was closed in 2004 and is no longer active). The Crude Cell is further divided into four source zones containing material originating from Pettigrew, East Line, Bisti, and West Line. These boundaries are shown on Figure 2.

#### VADOSE ZONE SOIL SAMPLING AND RESULTS

In accordance with Rule 36, semi-annual samples were collected from the vadose zone at depths of approximately 3 feet below native ground surface. For this sampling, four randomly selected, independent samples were collected from each treatment cell: four samples from the Crude Cell and four samples from the API Cell. Samples were analyzed for TPH by EPA Method 418.1, BTEX by EPA Method 8260B, and chloride by EPA Method 300.0.



Jones, B. Page 2

TPH was detected above the background concentration/laboratory PQL in two samples: West Line Vadose Zone and East Line Vadose Zone. In addition, chloride was detected above the background concentration/laboratory PQL in five samples: Pettigrew Vadose Zone and all four samples collected from the API Cell. TPH and chloride were not detected in any of the remaining samples. In addition, BTEX compounds were not detected above laboratory PQLs in any of the collected samples. Semi-annual vadose-zone analytical results are summarized in Table 1. Sample locations are shown on Figure 3. Laboratory analytical reports are included in Attachment 1.

#### VADOSE ZONE RELEASE NOTIFICATION AND RECOMMENDATIONS

As defined in Subsection E of 19.15.36.15 NMAC, a "release" of several constituents to vadosezone soils has occurred at the Site. Because a release has occurred in both the Crude Cell and API Cell, Western will conduct a re-sampling event in each cell. Specifically, four randomly selected, independent samples will be collected and analyzed from the vadose zone within each treatment cell. The results of this re-sampling event and a *Release Response Action Plan* will be submitted to NMOCD within 45 days of this notification for review and approval. The *Release Response Action Plan* will address any changes to the operation of the landfarm to prevent further contamination and, if necessary, outline a plan to remediate existing contamination.

Sincerely,

LT ENVIRONMENTAL, INC.

Stuart Hyde, LG Project Geologist

Ushley L. ager

Ashley Ager, PG Senior Geologist

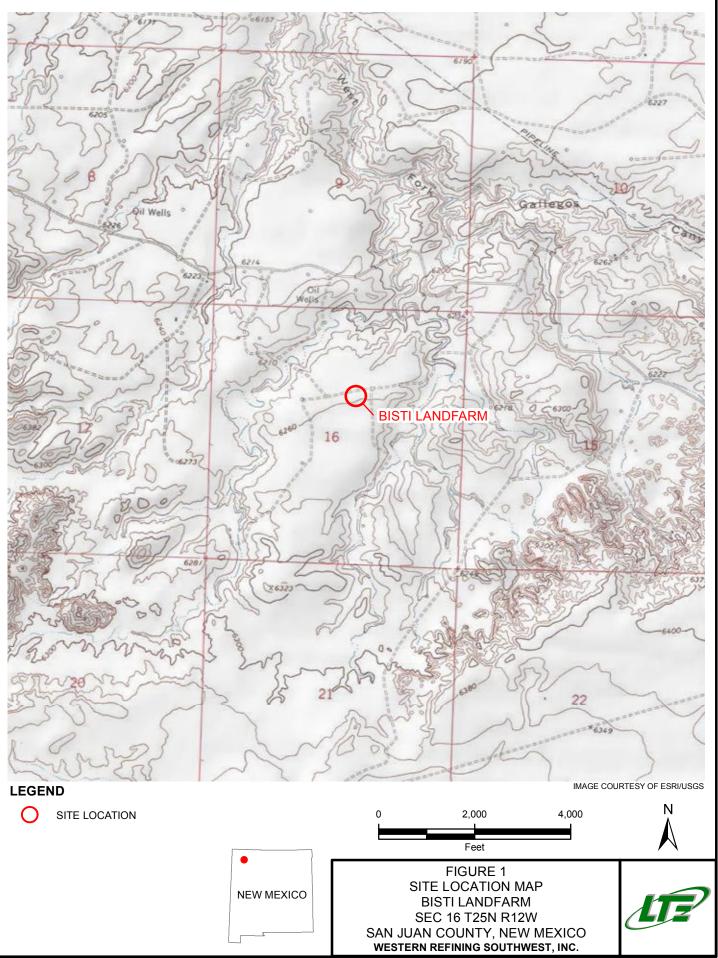
cc: Greg McCartney, Marathon Petroleum Company LP

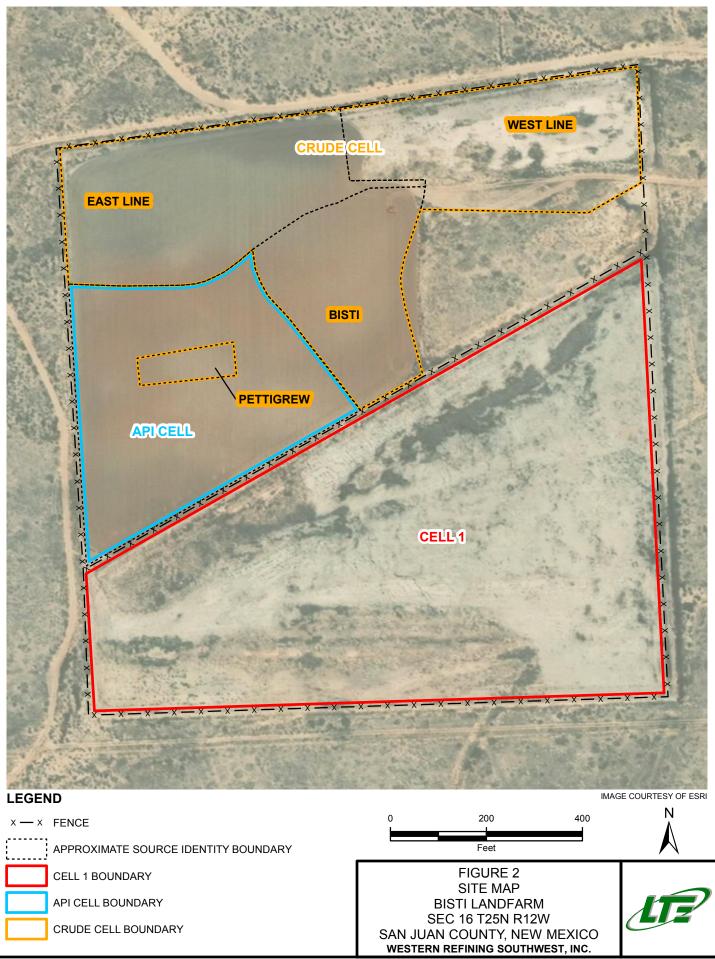
Attachments:

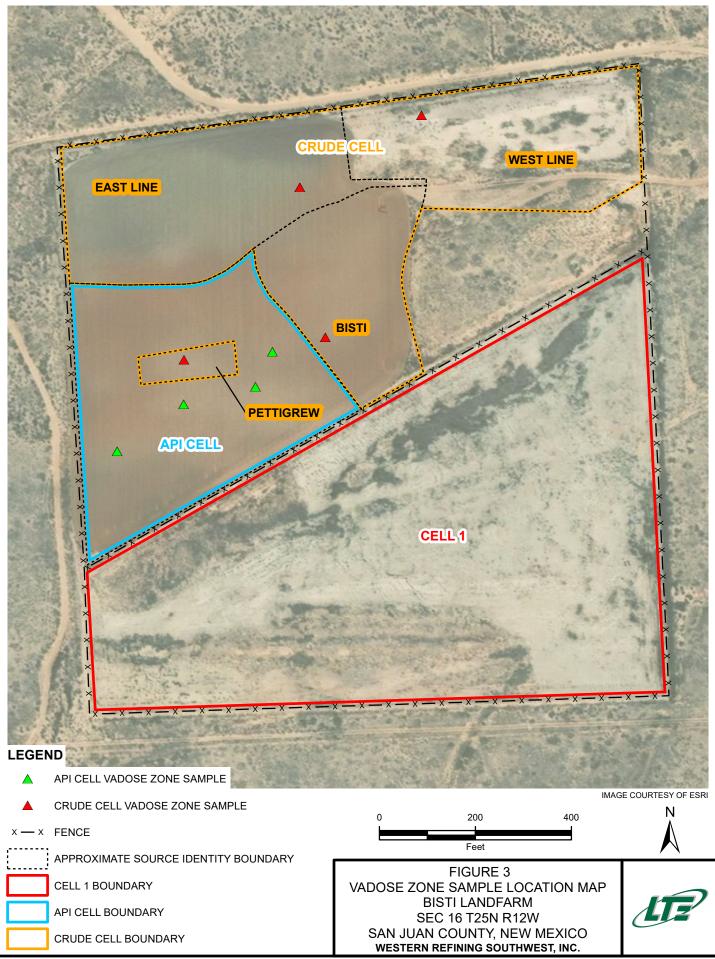
Figure 1: Site Location Map Figure 2: Site Map Figure 3: Vadose Zone Sample Location Map

Table 1: 2020 Semi-Annual Vadose Zone Soil Analytical Results

Attachment 1: Analytical Laboratory Reports







P:\Western Refining\GIS\MXD\029520002\_BISTI LANDFARM\029520002\_BISTI\_FIG04\_VADOSE\_2020\_Q1.mxd

## TABLE 12020 SEMI-ANNUAL VADOSE ZONE SOIL ANALYTICAL RESULTS

### BISTI LANDFARM SAN JUAN COUNTY, NEW MEXICO WESTERN REFINING SOUTHWEST, INC.

Cell	Source Area	Sample ID	Sample Date	TPH 418.1 (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
	West Line	West Line Vadose Zone	9-Mar-20	340	< 0.025	<0.050	<0.050	<0.10	<0.10	<60
Crude Cell	East Line	East Line Vadose Zone	9-Mar-20	32	<0.025	<0.049	<0.049	<0.099	<0.099	<60
Crude Cell	Bisti	Bisti Vadose Zone	9-Mar-20	<20	< 0.023	<0.047	<0.047	<0.094	<0.094	<60
	Pettigrew	Pettigrew Vadose Zone	9-Mar-20	<20	<0.023	<0.047	<0.047	<0.094	<0.094	650
		API Vadose Zone 1	9-Mar-20	<19	< 0.024	<0.049	<0.049	<0.098	<0.098	130
	ΑΡΙ	API Vadose Zone 2	9-Mar-20	<20	<0.024	<0.048	<0.048	<0.096	<0.096	1,900
API Cell	API	API Vadose Zone 3	9-Mar-20	<20	<0.025	<0.050	<0.050	<0.10	<0.099	540
		API Vadose Zone 4	9-Mar-20	<18	<0.024	<0.047	<0.047	<0.094	<0.094	240
	Background Sample Result		27-Mar-98 and 1- Sep-15	<20	<0.05	<0.05	<0.05	<0.05	<0.1	<50

Notes:

mg/kg - milligrams per kilograms

DRO - diesel range organics

GRO - gasoline range organics

TPH- total petroleum hydrocarbons

NE - not established

NA - not analyzed

< indicates result is less than the stated laboratory method practical quantitation limit

BOLD indicates results exceed the higher of the background sample result or practical quantitation limit





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

March 25, 2020

Gregory J. McCartney Western Refining Southwest, Inc. #50 CR 4990 Bloomfield, NM 87413 TEL: (505) 632-4135 FAX:

RE: 2020 Bisti Landfarm Semi Annual

OrderNo.: 2003469

Dear Gregory J. McCartney:

Hall Environmental Analysis Laboratory received 10 sample(s) on 3/10/2020 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.
Project: 2020 Bisti Landfarm Semi Annual
Lab ID: 2003469-001 Matrix: SOIL

Client Sample ID: West Line Vadose Collection Date: 3/9/2020 12:06:00 PM Received Date: 3/10/2020 8:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analyst	CFC
Petroleum Hydrocarbons, TR	340	19	mg/Kg	1	3/18/2020	51052
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ
Chloride	ND	60	mg/Kg	20	3/14/2020 3:18:39 PM	51105
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	3/14/2020 7:13:00 AM	51068
Toluene	ND	0.050	mg/Kg	1	3/14/2020 7:13:00 AM	51068
Ethylbenzene	ND	0.050	mg/Kg	1	3/14/2020 7:13:00 AM	51068
Xylenes, Total	ND	0.10	mg/Kg	1	3/14/2020 7:13:00 AM	51068
Surr: 1,2-Dichloroethane-d4	82.6	70-130	%Rec	1	3/14/2020 7:13:00 AM	51068
Surr: 4-Bromofluorobenzene	97.6	70-130	%Rec	1	3/14/2020 7:13:00 AM	51068
Surr: Dibromofluoromethane	96.5	70-130	%Rec	1	3/14/2020 7:13:00 AM	51068
Surr: Toluene-d8	101	70-130	%Rec	1	3/14/2020 7:13:00 AM	51068

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

Qualifiers:

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

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

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### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.
Project: 2020 Bisti Landfarm Semi Annual
Lab ID: 2003469-002 Matrix: SOIL

Client Sample ID: East Line Vadose Collection Date: 3/9/2020 12:01:00 PM Received Date: 3/10/2020 8:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analyst	CFC
Petroleum Hydrocarbons, TR	32	19	mg/Kg	1	3/18/2020	51052
EPA METHOD 300.0: ANIONS					Analyst:	ЈМТ
Chloride	ND	60	mg/Kg	20	3/14/2020 3:31:04 PM	51105
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst:	JMR
Benzene	ND	0.025	mg/Kg	1	3/14/2020 8:38:28 AM	51068
Toluene	ND	0.049	mg/Kg	1	3/14/2020 8:38:28 AM	51068
Ethylbenzene	ND	0.049	mg/Kg	1	3/14/2020 8:38:28 AM	51068
Xylenes, Total	ND	0.099	mg/Kg	1	3/14/2020 8:38:28 AM	51068
Surr: 1,2-Dichloroethane-d4	86.0	70-130	%Rec	1	3/14/2020 8:38:28 AM	51068
Surr: 4-Bromofluorobenzene	95.8	70-130	%Rec	1	3/14/2020 8:38:28 AM	51068
Surr: Dibromofluoromethane	92.2	70-130	%Rec	1	3/14/2020 8:38:28 AM	51068
Surr: Toluene-d8	101	70-130	%Rec	1	3/14/2020 8:38:28 AM	51068

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

Qualifiers:

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

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

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#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.
Project: 2020 Bisti Landfarm Semi Annual
Lab ID: 2003469-003 Matrix: SOIL

Client Sample ID: Bisti Vadose Collection Date: 3/9/2020 12:04:00 PM Received Date: 3/10/2020 8:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analyst	CFC
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	3/18/2020	51052
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	3/14/2020 3:43:28 PM	51105
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.023	mg/Kg	1	3/14/2020 9:06:57 AM	51068
Toluene	ND	0.047	mg/Kg	1	3/14/2020 9:06:57 AM	51068
Ethylbenzene	ND	0.047	mg/Kg	1	3/14/2020 9:06:57 AM	51068
Xylenes, Total	ND	0.094	mg/Kg	1	3/14/2020 9:06:57 AM	51068
Surr: 1,2-Dichloroethane-d4	77.7	70-130	%Rec	1	3/14/2020 9:06:57 AM	51068
Surr: 4-Bromofluorobenzene	96.6	70-130	%Rec	1	3/14/2020 9:06:57 AM	51068
Surr: Dibromofluoromethane	97.3	70-130	%Rec	1	3/14/2020 9:06:57 AM	51068
Surr: Toluene-d8	98.6	70-130	%Rec	1	3/14/2020 9:06:57 AM	51068

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

Qualifiers:

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

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

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### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.
Project: 2020 Bisti Landfarm Semi Annual
Lab ID: 2003469-004 Matrix: SOIL

Client Sample ID: Pettigrew Vadose Collection Date: 3/9/2020 12:00:00 PM Received Date: 3/10/2020 8:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analyst	CFC
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	3/18/2020	51052
EPA METHOD 300.0: ANIONS					Analyst	ЈМТ
Chloride	650	60	mg/Kg	20	3/14/2020 3:55:52 PM	51105
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.023	mg/Kg	1	3/14/2020 9:35:28 AM	51068
Toluene	ND	0.047	mg/Kg	1	3/14/2020 9:35:28 AM	51068
Ethylbenzene	ND	0.047	mg/Kg	1	3/14/2020 9:35:28 AM	51068
Xylenes, Total	ND	0.094	mg/Kg	1	3/14/2020 9:35:28 AM	51068
Surr: 1,2-Dichloroethane-d4	84.4	70-130	%Rec	1	3/14/2020 9:35:28 AM	51068
Surr: 4-Bromofluorobenzene	94.6	70-130	%Rec	1	3/14/2020 9:35:28 AM	51068
Surr: Dibromofluoromethane	92.0	70-130	%Rec	1	3/14/2020 9:35:28 AM	51068
Surr: Toluene-d8	106	70-130	%Rec	1	3/14/2020 9:35:28 AM	51068

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

Qualifiers:

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

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

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#### Hall Environmental Analysis Laboratory, Inc.

CLIENT:Western Refining Southwest, Inc.Project:2020 Bisti Landfarm Semi AnnualLab ID:2003469-005Matrix: SOIL

Client Sample ID: API-1 Vadose Collection Date: 3/9/2020 12:07:00 PM Received Date: 3/10/2020 8:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analyst	CFC
Petroleum Hydrocarbons, TR	ND	19	mg/Kg	1	3/18/2020	51052
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	130	60	mg/Kg	20	3/14/2020 4:08:16 PM	51105
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst:	JMR
Benzene	ND	0.024	mg/Kg	1	3/14/2020 10:03:53 AM	51068
Toluene	ND	0.049	mg/Kg	1	3/14/2020 10:03:53 AM	51068
Ethylbenzene	ND	0.049	mg/Kg	1	3/14/2020 10:03:53 AM	51068
Xylenes, Total	ND	0.098	mg/Kg	1	3/14/2020 10:03:53 AM	51068
Surr: 1,2-Dichloroethane-d4	85.2	70-130	%Rec	1	3/14/2020 10:03:53 AM	51068
Surr: 4-Bromofluorobenzene	95.5	70-130	%Rec	1	3/14/2020 10:03:53 AM	51068
Surr: Dibromofluoromethane	97.9	70-130	%Rec	1	3/14/2020 10:03:53 AM	51068
Surr: Toluene-d8	101	70-130	%Rec	1	3/14/2020 10:03:53 AM	51068

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

Qualifiers:

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

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

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### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.
Project: 2020 Bisti Landfarm Semi Annual
Lab ID: 2003469-006 Matrix: SOIL

Client Sample ID: API-2 Vadose Collection Date: 3/9/2020 12:08:00 PM Received Date: 3/10/2020 8:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analyst	CFC
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	3/18/2020	51052
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	1900	60	mg/Kg	20	3/14/2020 4:20:41 PM	51105
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.024	mg/Kg	1	3/14/2020 10:32:26 AM	51068
Toluene	ND	0.048	mg/Kg	1	3/14/2020 10:32:26 AM	51068
Ethylbenzene	ND	0.048	mg/Kg	1	3/14/2020 10:32:26 AM	51068
Xylenes, Total	ND	0.096	mg/Kg	1	3/14/2020 10:32:26 AM	51068
Surr: 1,2-Dichloroethane-d4	88.9	70-130	%Rec	1	3/14/2020 10:32:26 AM	51068
Surr: 4-Bromofluorobenzene	97.9	70-130	%Rec	1	3/14/2020 10:32:26 AM	51068
Surr: Dibromofluoromethane	98.0	70-130	%Rec	1	3/14/2020 10:32:26 AM	51068
Surr: Toluene-d8	99.6	70-130	%Rec	1	3/14/2020 10:32:26 AM	51068

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

Qualifiers:

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

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

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### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.
Project: 2020 Bisti Landfarm Semi Annual
Lab ID: 2003469-007 Matrix: SOIL

Client Sample ID: API-3 Vadose Collection Date: 3/9/2020 12:05:00 PM Received Date: 3/10/2020 8:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analyst	CFC
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	3/18/2020	51052
EPA METHOD 300.0: ANIONS					Analyst	ЈМТ
Chloride	540	60	mg/Kg	20	3/14/2020 4:33:06 PM	51105
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	3/14/2020 1:23:59 PM	51068
Toluene	ND	0.050	mg/Kg	1	3/14/2020 1:23:59 PM	51068
Ethylbenzene	ND	0.050	mg/Kg	1	3/14/2020 1:23:59 PM	51068
Xylenes, Total	ND	0.099	mg/Kg	1	3/14/2020 1:23:59 PM	51068
Surr: 1,2-Dichloroethane-d4	84.2	70-130	%Rec	1	3/14/2020 1:23:59 PM	51068
Surr: 4-Bromofluorobenzene	95.4	70-130	%Rec	1	3/14/2020 1:23:59 PM	51068
Surr: Dibromofluoromethane	93.3	70-130	%Rec	1	3/14/2020 1:23:59 PM	51068
Surr: Toluene-d8	100	70-130	%Rec	1	3/14/2020 1:23:59 PM	51068

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

Qualifiers:

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

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

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#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.
Project: 2020 Bisti Landfarm Semi Annual
Lab ID: 2003469-008 Matrix: SOIL

Client Sample ID: API-4 Vadose Collection Date: 3/9/2020 12:06:00 PM Received Date: 3/10/2020 8:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analyst	CFC
Petroleum Hydrocarbons, TR	ND	18	mg/Kg	1	3/18/2020	51052
EPA METHOD 300.0: ANIONS					Analyst	ЈМТ
Chloride	240	60	mg/Kg	20	3/14/2020 4:45:30 PM	51105
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.024	mg/Kg	1	3/14/2020 1:52:42 PM	51068
Toluene	ND	0.047	mg/Kg	1	3/14/2020 1:52:42 PM	51068
Ethylbenzene	ND	0.047	mg/Kg	1	3/14/2020 1:52:42 PM	51068
Xylenes, Total	ND	0.094	mg/Kg	1	3/14/2020 1:52:42 PM	51068
Surr: 1,2-Dichloroethane-d4	84.0	70-130	%Rec	1	3/14/2020 1:52:42 PM	51068
Surr: 4-Bromofluorobenzene	96.5	70-130	%Rec	1	3/14/2020 1:52:42 PM	51068
Surr: Dibromofluoromethane	93.4	70-130	%Rec	1	3/14/2020 1:52:42 PM	51068
Surr: Toluene-d8	101	70-130	%Rec	1	3/14/2020 1:52:42 PM	51068

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

Qualifiers:

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

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

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### Hall Environmental Analysis Laboratory, Inc.

CLIENT:Western Refining Southwest, Inc.Project:2020 Bisti Landfarm Semi AnnualLab ID:2003469-009Matrix: SOIL

Client Sample ID: Crude Cell Treatment Collection Date: 3/9/2020 12:04:00 PM Received Date: 3/10/2020 8:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analyst	CFC
Petroleum Hydrocarbons, TR	110	18	mg/Kg	1	3/18/2020	51052
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	3/14/2020 5:22:45 PM	51105
EPA METHOD 8015D MOD: GASOLINE RA	NGE				Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/14/2020 2:21:22 PM	51068
Surr: BFB	97.6	70-130	%Rec	1	3/14/2020 2:21:22 PM	51068
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	23	9.8	mg/Kg	1	3/18/2020 1:49:56 PM	51086
Surr: DNOP	92.8	55.1-146	%Rec	1	3/18/2020 1:49:56 PM	51086

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

Qualifiers:

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

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

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### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.
Project: 2020 Bisti Landfarm Semi Annual
Lab ID: 2003469-010 Matrix: SOIL

Client Sample ID: API Cell Treatment Collection Date: 3/9/2020 12:09:00 PM Received Date: 3/10/2020 8:15:00 AM

Analyses	Result	RL (	<b>Dual Units</b>	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analyst	
EFA METHOD 416.1. TFH						. CFC
Petroleum Hydrocarbons, TR	36	19	mg/Kg	1	3/18/2020	51052
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	190	61	mg/Kg	20	3/14/2020 5:35:09 PM	51105
EPA METHOD 8015D MOD: GASOLINE RANGE	E				Analyst	: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/14/2020 2:50:02 PM	51068
Surr: BFB	95.4	70-130	%Rec	1	3/14/2020 2:50:02 PM	51068
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	11	9.9	mg/Kg	1	3/18/2020 2:33:55 PM	51086
Surr: DNOP	88.4	55.1-146	%Rec	1	3/18/2020 2:33:55 PM	51086

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

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
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- PQL Practical Quanitative Limit
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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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	rn Refining Southwest, Inc. Bisti Landfarm Semi Annual						
Sample ID: <b>MB-51105</b> Client ID: <b>PBS</b>	SampType: mblk Batch ID: 51105	TestCode: EPA Method 300.0: Anions RunNo: 67316					
Prep Date: 3/13/2020	Analysis Date: 3/14/2020	SeqNo: 2320124	Units: <b>mg/Kg</b>				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual			
Chloride	ND 1.5						
Sample ID: LCS-51105	SampType: Ics	TestCode: EPA Method	300.0: Anions				
Client ID: LCSS	Batch ID: 51105	RunNo: 67316					
Prep Date: 3/13/2020	Analysis Date: 3/14/2020	SeqNo: 2320125	Units: <b>mg/Kg</b>				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual			
Chloride	14 1.5 15.00	0 94.7 90	110				

#### Qualifiers:

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- P Sample pH Not In Range
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WO#:	2003469
	25-Mar-20

Client: Westerr	n Refining Southv	vest, Inc.													
Project: 2020 Bi	isti Landfarm Sen	1i Annual													
Sample ID: MB-51052	SampType: I	<b>VIBLK</b>	TestCode: EPA Method 418.1: TPH												
Client ID: PBS	Batch ID:	51052	F	RunNo: <b>67</b>	'391										
Prep Date: 3/13/2020	Analysis Date:	3/18/2020	5	SeqNo: 23	24193	Units: <b>mg/K</b>	(g								
Analyte	Result PQI	_ SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Petroleum Hydrocarbons, TR	ND 2	20													
Sample ID: LCS-51052	SampType: I	_cs	Tes	tCode: EP	A Method	418.1: TPH									
Client ID: LCSS	Batch ID:	51052	RunNo: 67391												
Prep Date: 3/13/2020	Analysis Date:	3/18/2020	5	SeqNo: 23	24194	Units: mg/Kg									
Analyte	Result PQI	_ SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Petroleum Hydrocarbons, TR	120 2	20 100.0	0	124	62.5	123			S						
Sample ID: LCSD-51052	SampType: I	CSD	Tes	tCode: EP	A Method	418.1: TPH									
Client ID: LCSS02	Batch ID:	51052	F	RunNo: 67	'391										
Prep Date: 3/13/2020	Analysis Date:	3/18/2020	5	SeqNo: 23	24195	Units: <b>mg/Kg</b>									
Analyte	Result PQI	_ SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Petroleum Hydrocarbons, TR	120 2	20 100.0	0	125	62.5	123	0.943	20	S						

**Qualifiers:** 

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- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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	Western Refining Southwest, Inc. 2020 Bisti Landfarm Semi Annual														
Sample ID: LCS-51086	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics													
Client ID: LCSS	Batch ID: 51086	RunNo: 67313													
Prep Date: 3/13/2020	Analysis Date: 3/16/2020	SeqNo: 2320643 Units: mg/Kg													
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual													
Diesel Range Organics (DRO)	54 10 50.00	0 107 70 130													
Surr: DNOP	5.2 5.000	105 55.1 146													
Sample ID: MB-51086	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics													
Client ID: PBS	Batch ID: 51086	RunNo: 67313													
Prep Date: 3/13/2020	Analysis Date: 3/16/2020	SeqNo: 2320644 Units: mg/Kg													
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual													
Diesel Range Organics (DRO)	ND 10														
Surr: DNOP	11 10.00	109 55.1 146													
Sample ID: LCS-51100	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics													
Client ID: LCSS	Batch ID: 51100	RunNo: 67313													
Prep Date: 3/13/2020	Analysis Date: 3/17/2020	SeqNo: 2321410 Units: %Rec													
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual													
Surr: DNOP	4.2 5.000	84.7 55.1 146													
Sample ID: MB-51100	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics													
Client ID: PBS	Batch ID: 51100	RunNo: 67313													
Prep Date: 3/13/2020	Analysis Date: 3/17/2020	SeqNo: 2321412 Units: %Rec													
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual													
Surr: DNOP	9.0 10.00	90.4 55.1 146													
Sample ID: LCS-51201	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics													
Client ID: LCSS	Batch ID: 51201	RunNo: 67313													
Prep Date: 3/18/2020	Analysis Date: 3/20/2020	SeqNo: 2326279 Units: %Rec													
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual													
Surr: DNOP	3.9 5.000	77.7 55.1 146													
Sample ID: MB-51201	SampType: <b>MBLK</b>	TestCode: EPA Method 8015M/D: Diesel Range Organics													
Client ID: PBS	Batch ID: <b>51201</b>	RunNo: 67313													
Prep Date: 3/18/2020	Analysis Date: 3/20/2020	SeqNo: 2326281 Units: %Rec													
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual													
Surr: DNOP	8.6 10.00	86.0 55.1 146													

#### **Qualifiers:**

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

### QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Western Refining Southwest, Inc.

Project: 2020 Bisti Landfarm Semi Annual

Sample ID: 2003469-001am	s Sampī	Туре: <b>МS</b>	6	TestCode: EPA Method 8260B: Volatiles Short List													
Client ID: West Line Vado	se Batc	h ID: 51	068	F	RunNo: 67303												
Prep Date: 3/12/2020	Analysis [	Date: <b>3/</b>	14/2020	S	SeqNo: 2	319857	Units: mg/k	٢g									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual							
Benzene	1.1	0.023	0.9242	0	116	70	130										
Toluene	1.1	0.046	0.9242	0	114	70	130										
Ethylbenzene	1.1	0.046	0.9242	0	119	70	130										
Xylenes, Total	3.3	0.092	2.773	0	120	70	130										
Surr: 1,2-Dichloroethane-d4	0.40		0.4621		85.6	70	130										
Surr: 4-Bromofluorobenzene	0.45		0.4621		97.0	70	130										
Surr: Dibromofluoromethane	0.44		0.4621		94.3	70	130										
Surr: Toluene-d8	0.47		0.4621		101	70	130										
Sample ID: 2003469-001amsd SampType: MSD TestCode: EPA Method 8260B: Volatiles Short List																	
Client ID: West Line Vado	se Batc	h ID: 51	068	F	RunNo: 67	7303											
Prep Date: 3/12/2020	Analysis [	Date: <b>3/</b>	14/2020	5													
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual							
Benzene	1.1	0.025	0.9843	0	112	70	130	2.76	20								
Toluene	1.1	0.049	0.9843	0	110	70	130	2.24	20								
Ethylbenzene	1.1	0.049	0.9843	0	116	70	130	4.38	0								
Xylenes, Total	3.4	0.098	2.953	0	115	70	130	2.50	0								
Surr: 1,2-Dichloroethane-d4	0.42		0.4921		85.1	70	130	0	0								
Surr: 4-Bromofluorobenzene	0.46		0.4921		94.2	70	130	0	0								
Surr: Dibromofluoromethane	0.47		0.4921		94.9	70	130	0	0								
Surr: Toluene-d8	0.49		0.4921		99.6	70	130	0	0								
Sample ID: Ics-51068	Samp	Type: LC	S	Tes	tCode: EF	PA Method	8260B: Vola	tiles Short	List								
Client ID: LCSS	Batc	h ID: 51	068	F	RunNo: 67	7303											
Prep Date: 3/12/2020	Analysis [	Date: <b>3/</b>	14/2020	S	SeqNo: 23	319874	Units: <b>mg/k</b>	۲g									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual							
Benzene	1.1	0.025	1.000	0	106	70	130										
Toluene	1.0	0.050	1.000	0	104	70	130										
Ethylbenzene	1.1	0.050	1.000	0	108	70	130										
Xylenes, Total	3.2	0.10	3.000	0	106	70	130										
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		84.6	70	130										
Surr: 4-Bromofluorobenzene	0.46		0.5000														
Surr: Dibromofluoromethane	0.47		0.5000		93.4	70	130										

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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ange

25-Mar-20

**Client:** Western Refining Southwest, Inc. **Project:** 2020 Bisti Landfarm Semi Annual

Sample ID: mb-51068	Samp	ype: ME	BLK	TestCode: EPA Method 8260B: Volatiles Short List												
Client ID: PBS	Batc	h ID: 51	068	F	RunNo: 6	7303										
Prep Date: 3/12/2020	Analysis [	Date: <b>3/</b>	14/2020	5	SeqNo: 2	319876	Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Benzene	ND	0.025														
Toluene	ND	0.050														
Ethylbenzene	ND	0.050														
Xylenes, Total	ND	0.10														
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		90.5	70	130									
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.6	70	130									
Surr: Dibromofluoromethane	0.48		0.5000		95.6	70	130									
Surr: Toluene-d8	0.51		0.5000		102	70	130									

**Qualifiers:** 

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- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL

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Reporting Limit

Qual

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	Refining Sou sti Landfarm S	<i>,</i>														
Sample ID: Ics-51068	SampTyp	e: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range												
Client ID: LCSS	Batch I	D: <b>51068</b>		RunNo: 67303												
Prep Date: 3/12/2020	Analysis Date	e: <b>3/14/20</b>	20	S	eqNo: 2	319913	Units: mg/K	(g								
Analyte	Result I	PQL SPH	(value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit							
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.0	70	130									
Surr: BFB	490		500.0		97.8	70	130									
Sample ID: mb-51068	SampTyp	e: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range												
Client ID: PBS	Batch I	D: 51068		F	RunNo: 6	7303										
Prep Date: 3/12/2020	Analysis Date	e: <b>3/14/20</b>	20	S	eqNo: 2	319915	Units: mg/Kg									
Analyte	Result I	PQL SPP	(value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit							
Gasoline Range Organics (GRO)	ND	5.0														
Surr: BFB	480		500.0		96.3	70	130									

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- S % Recovery outside of range due to dilution or matrix

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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
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ANALY	ONMENTA 'SIS Ratory	AL	TEI	l Environmei 2: 505-345-3 Vebsite: www	490 Albuquerq 975 FAX:	l Hawk ue, NM 505-34	cins NE 87109 5-4107	Sample Log-In Check List								
Client Name:	Western Re	efining Southv	<b>v</b> Work	Order Numl	oer: 2003	3469			RcptNo: 1							
Received By:	Yazmine C	Garduno	3/10/202	20 8:15:00	AM		yby	mirı liqhakut	ž							
Completed By:	Leah Baca	3	-	20 10:31:22	АМ		Last	min lifnduit I Bac	4							
Reviewed By:	ENH		3/11	120				1								
Chain of Cust	tody															
1. Is Chain of Cu	istody suffici	ently complete	97		Yes	$\checkmark$	N	lo 🗌	Not Present							
2. How was the s	sample delive	ered?			Clier	<u>nt</u>										
Log In																
3. Was an attem	pt made to c	ool the sample	es?		Yes	$\checkmark$	Ν	o 🗌								
4. Were all samp	les received	at a temperat	ure of >0° C t	o 6.0°C	Yes	$\checkmark$	Ν	o 🗌								
5. Sample(s) in p	oroper contai	ner(s)?			Yes	$\checkmark$	Ν	o 🗌								
S. Sufficient sam	ple volume fo	or indicated te	st(s)?		Yes	$\checkmark$	N	•								
7. Are samples (e	except VOA a	and ONG) pro	perly preserve	d?	Yes	$\checkmark$		o 🗌								
<ol> <li>Was preservat</li> </ol>	ive added to	bottles?			Yes		N		NA 🗌							
). Received at lea	ast 1 vial with	n headspace <	<1/4" for AQ V	OA?	Yes		N	o 🗌	NA 🗹							
0. Were any sam	ple containe	rs received br	oken?		Yes		N	o 🗸	# of preserved bottles checked							
1. Does paperwo (Note discrepa					Yes	✓	N	o 🗌	for pH: (<2 or >12 unless noted)							
2. Are matrices c	orrectly ident	tified on Chain	of Custody?		Yes	$\checkmark$	N	<b>b</b>	Adjusted?							
3. Is it clear what			>			$\checkmark$	N	o 🗌								
4. Were all holdin (If no, notify cu	•••••••••••••••••••••••••••••••••••••••				Yes	$\checkmark$	N	o 🗌	Checked by: DAD 3/11/20							
pecial Handli	ing (if app	licable)														
5. Was client not	tified of all di	screpancies w	vith this order?		Yes		N	o 🗌	NA 🗹							
Person I	Notified:	anna an sa bhainn chuirtean thag anns an an an	an a	Date	ſ	ian maratan		mon a sweeping.								
By Who	m:	nine and an and a second		Via:	eM	ail 🗌	Phone [	Fax	In Person							
Regardi	ng: 🛛	na har gall tá kai có cola da caina tras par	nandrige and Galactica and Sales		NAMES AND ADDRESS OF TAXABLE			Manual Andrew Pre-								
	structions:	nan a can rafhan da fa ra far fai canan da														
6. Additional rer																
7. Cooler Inform Cooler No	Temp °C	Condition	Seal Intact	Seal No	Soci D	ate	Signa	d Bu	1							
1	1.5	Good	Searmact	Seal No	Seal D	ale	Signe	и Ву								
L	2.9	Good		1												

	ANALYSIS LABORATORY		4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Anal	*Os	S '*C SWI S.8C	, PG	, DF 8082 80827 827 827 827	00 90 90 90 90 90 90 90 90 90 90 90 90 9	(GI (GI (CI) (CI) (CI) (CI) (CI) (CI) (CI) (CI	15D etho y 83 y Me 5 Me 5 Me 5 Me 5 Me 5 Me 5 Me 5 Me 5	2H:S0 2H:S0 2B (M 2DB (	82 82 60 87 87 80 80 80 80 80 80 80 80 80 80 80 80 80		×××	XX	××		××	×××	×××	XX	×		Remarks: cc: dhen manno!tenv. com	Cmudinnoltan.com	Bill to: 4500183750	If necessary, agmples 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.
Turn-Around Time:	🗙 Standard 🛛 Rush	Project Name:	Tosi Annual	Project #:	E00086620	Project Manager:	Duin Hermin		n cm/mm	2	# of Coolers: 'L	Cooler Temp(including CF): [. U †().] = ]. S	Container Preservative $2 & 40.1 = 2 M$	Type and # Type 2003 4 Pod	1402 Jul (2001 1000 /ul 2011	200-	-003	P.00	-005	- 006	-00-	-008	-009	V V -010		Received by: Via: Date Time		the more shoted DG15	tracted to other accredited laboratories. This serves as notice of this
Chain-of-Custody Record	client: Grea McCartney		Mailing Address: 539 S. Main St Room M-1		1	email or Fax#: a) mcartney emacthen P	QA/QC Package:	X Standard   Level 4 (Full Validation)	□ Az Compliance	Other	K EDD (Type) PDF			Time Matrix Sample Name	3.0.2 1204 Soil westline vadore 1	1 1301   East-Line VacIost	1 1304 Bisti vadose	1300 Rtharew Vadose	1307 April vadose	1205 API-2 Vadox	- 1 API-3	1206 API-4 Vaulase	1 1204 Cruck Coll Treatment	V 1309 V MPI Cell Treatment		Date: A line: Relinquished by:	Relinquished by:	3/9/20 1963 Christian Nacles	If necessary, samples submitted to Hall Environmental may be subcon