

Incident Summary Report



Facility: Western Refining Terminals
50 County Road 4990
Bloomfield, NM 87413

EPA ID: NMD089416416

Incident Date: 02/22/2022 at 11:00 AM

Location: Near Tank 13 in Solid Waste Management Unit #15 (SWMU #15)

Material: Gasoline product

Volume Released: 15 Gallons

Quantity Recovered: All of the released product was collected in the excavated soil

Soil Recovered: 10 cubic yards

Offsite Impact: None

At approximately 11:00 AM on February 22, 2022, it was discovered that a pump seal near Tank 13 had a failed and was releasing gasoline product into the Tank 13 secondary containment through a small seam in the pump housing. The pump and the release were immediately stopped, and absorbent pads were deployed to collect freestanding product in the area. The contaminated soil was collected (approximately 10 cubic yards) for containerization and sampled for waste characterization and management offsite. No product left the secondary containment and there were no offsite impacts. The release occurred within the boundaries of SWMU #15.

New Mexico Environment Department was notified with a phone call to Leona Tsinnajinnie around 1:00 PM and with a follow up email at 3:02 PM on February 22, 2022. The notification met Condition IV.B.9 of the Consent Order NO. HWB 07-34 (CO). Instructions were provided by Leona Tsinnajinnie to submit an Incident Summary Report. (i.e. this communication)

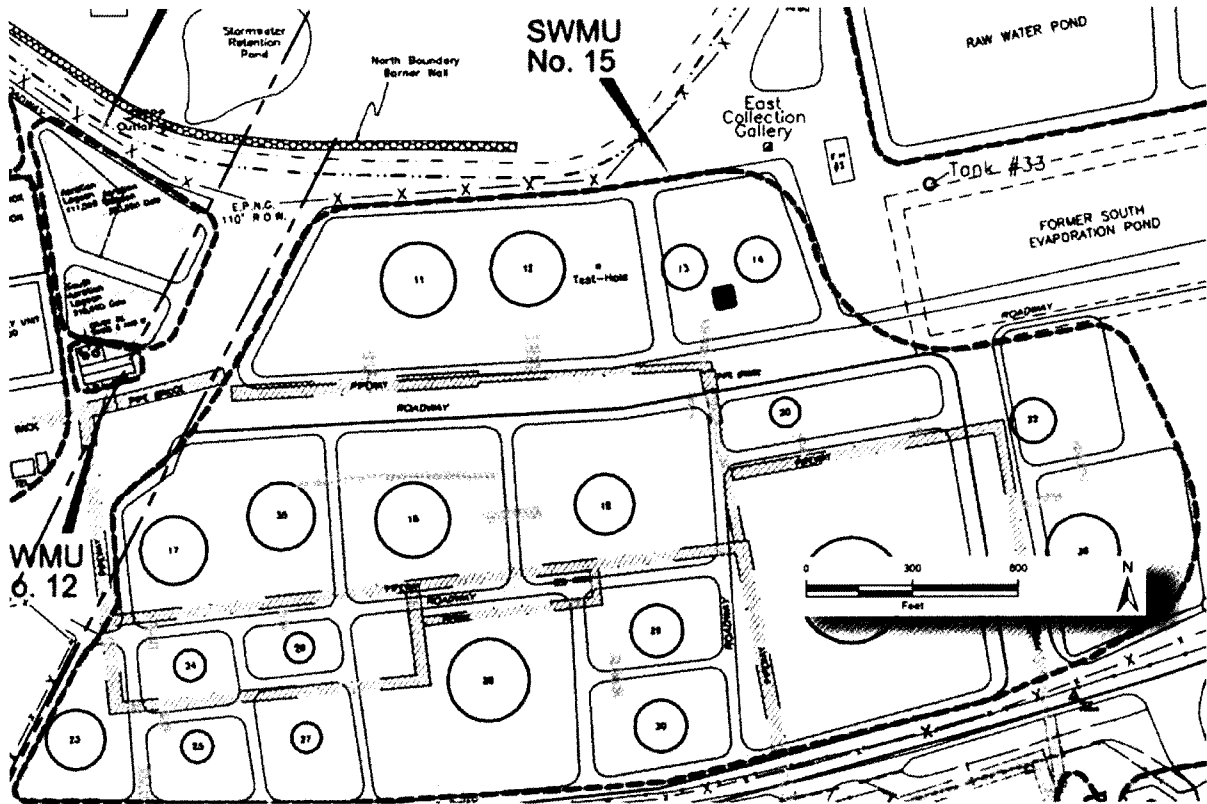
After excavating the impacted soil, the soil was placed into a roll-off box. Two verification confirmation samples were collected from the excavation area at points where product had collected on the ground. The confirmation samples were to ensure that all the impacted soil from this incident had been excavated.

Attached to this communication are the following:

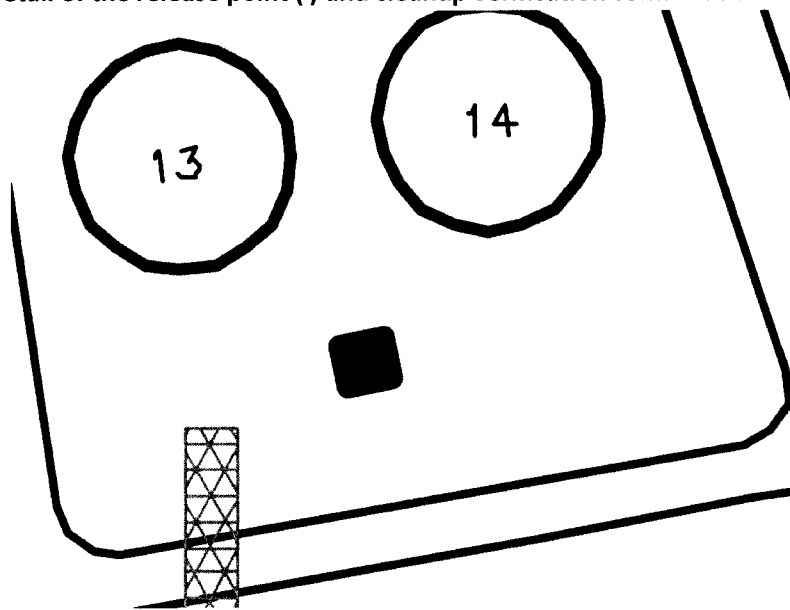
- Scaled Figure showing the SWMU #15 boundary, extent of Contamination, release point, Tank 13, North indicator
- Detail of release location and confirmation sample points
- Waste soil analysis (Lab ID 2202A85)
- Excavated area confirmation sample results (Lab ID 2203295-001 and 2203295-002)

Figure Showing:

SWMU #15 boundary ---, Extent of Contamination ■, Release point (•), Tank 13, Scale with North indicator



Detail of the release point (•) and cleanup verification confirmation sample locations (•).





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

March 21, 2022

Gary Russell
Western Refining Southwest, Inc.
#50 CR 4990
Bloomfield, NM 87413
TEL: (505) 632-4135
FAX: (505) 632-3911

RE: Soil Tank 13

OrderNo.: 2202A85

Dear Gary Russell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/23/2022 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2202A85

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Soil Tank 13

Project: Soil Tank 13

Collection Date: 2/22/2022 12:30:00 PM

Lab ID: 2202A85-001

Matrix: SOIL

Received Date: 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
MERCURY, TCLP							Analyst: VP
Mercury	ND	0.020		mg/L	1	3/4/2022 4:00:10 PM	65950
EPA METHOD 6010B: TCLP METALS							Analyst: JLF
Arsenic	ND	5.0		mg/L	1	3/9/2022 6:19:26 PM	65805
Barium	ND	100		mg/L	1	2/28/2022 6:19:57 PM	65805
Cadmium	ND	1.0		mg/L	1	2/28/2022 6:19:57 PM	65805
Chromium	ND	5.0		mg/L	1	2/28/2022 6:19:57 PM	65805
Lead	ND	5.0		mg/L	1	2/28/2022 6:19:57 PM	65805
Selenium	ND	1.0		mg/L	1	3/9/2022 6:19:26 PM	65805
Silver	ND	5.0		mg/L	1	3/1/2022 1:23:22 PM	65805
EPA METHOD 8270C TCLP							Analyst: JME
2-Methylphenol	ND	200		mg/L	1	3/7/2022 4:28:28 PM	65826
3+4-Methylphenol	ND	200		mg/L	1	3/7/2022 4:28:28 PM	65826
2,4-Dinitrotoluene	ND	0.13		mg/L	1	3/7/2022 4:28:28 PM	65826
Hexachlorobenzene	ND	0.13		mg/L	1	3/7/2022 4:28:28 PM	65826
Hexachlorobutadiene	ND	0.50		mg/L	1	3/7/2022 4:28:28 PM	65826
Hexachloroethane	ND	3.0		mg/L	1	3/7/2022 4:28:28 PM	65826
Nitrobenzene	ND	2.0		mg/L	1	3/7/2022 4:28:28 PM	65826
Pentachlorophenol	ND	100		mg/L	1	3/7/2022 4:28:28 PM	65826
Pyridine	ND	5.0		mg/L	1	3/7/2022 4:28:28 PM	65826
2,4,5-Trichlorophenol	ND	400		mg/L	1	3/7/2022 4:28:28 PM	65826
2,4,6-Trichlorophenol	ND	2.0		mg/L	1	3/7/2022 4:28:28 PM	65826
Cresols, Total	ND	200		mg/L	1	3/7/2022 4:28:28 PM	65826
Surr: 2-Fluorophenol	47.3	30.7-86.1		%Rec	1	3/7/2022 4:28:28 PM	65826
Surr: Phenol-d5	35.4	22.6-64		%Rec	1	3/7/2022 4:28:28 PM	65826
Surr: 2,4,6-Tribromophenol	58.2	46.3-109		%Rec	1	3/7/2022 4:28:28 PM	65826
Surr: Nitrobenzene-d5	53.7	33.1-110		%Rec	1	3/7/2022 4:28:28 PM	65826
Surr: 2-Fluorobiphenyl	53.1	39.1-93.8		%Rec	1	3/7/2022 4:28:28 PM	65826
Surr: 4-Terphenyl-d14	88.1	55.6-172		%Rec	1	3/7/2022 4:28:28 PM	65826
VOLATILES BY 8260B/1311							Analyst: CCM
Benzene	2.6	0.50		mg/L	10	3/2/2022 4:19:00 PM	65818
2-Butanone	ND	200		mg/L	1	3/1/2022 10:28:00 PM	65818
Carbon Tetrachloride	ND	0.50		mg/L	1	3/1/2022 10:28:00 PM	65818
Chlorobenzene	ND	100		mg/L	1	3/1/2022 10:28:00 PM	65818
Chloroform	ND	6.0		mg/L	1	3/1/2022 10:28:00 PM	65818
1,4-Dichlorobenzene	ND	7.5		mg/L	1	3/1/2022 10:28:00 PM	65818
1,2-Dichloroethane (EDC)	ND	0.50		mg/L	1	3/1/2022 10:28:00 PM	65818
1,1-Dichloroethene	ND	0.70		mg/L	1	3/1/2022 10:28:00 PM	65818
Tetrachloroethene (PCE)	ND	0.70		mg/L	1	3/1/2022 10:28:00 PM	65818

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 Quantitative Limit
S	% Recovery outside of range due to dilution or matrix interference

B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Soil Tank 13

Project: Soil Tank 13

Collection Date: 2/22/2022 12:30:00 PM

Lab ID: 2202A85-001

Matrix: SOIL

Received Date: 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
VOLATILES BY 8260B/1311							Analyst: CCM
Trichloroethene (TCE)	ND	0.50		mg/L	1	3/1/2022 10:28:00 PM	65818
Vinyl chloride	ND	0.20		mg/L	1	3/1/2022 10:28:00 PM	65818
Surr: 1,2-Dichloroethane-d4	96.6	70-130		%Rec	1	3/1/2022 10:28:00 PM	65818
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	3/1/2022 10:28:00 PM	65818
Surr: Dibromofluoromethane	102	70-130		%Rec	1	3/1/2022 10:28:00 PM	65818
Surr: Toluene-d8	105	70-130		%Rec	1	3/1/2022 10:28:00 PM	65818

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

Qualifiers:	<ul style="list-style-type: none"> * 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 Quantitative Limit S % Recovery outside of range due to dilution or matrix interference 	<ul style="list-style-type: none"> B Analyte detected in the associated Method Blank E Estimated value J Analyte detected below quantitation limits P Sample pH Not In Range RL Reporting Limit
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202A85

21-Mar-22

Client: Western Refining Southwest, Inc.

Project: Soil Tank 13

Sample ID: LCS-65818	SampType: LCS	TestCode: Volatiles by 8260B/1311								
Client ID: LCSS	Batch ID: 65818	RunNo: 86159								
Prep Date: 2/25/2022	Analysis Date: 3/1/2022	SeqNo: 3037898	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.44	0.30	0.4000	0	110	70	130			
Chlorobenzene	0.43	0.30	0.4000	0	107	70	130			
1,1-Dichloroethene	0.40	0.30	0.4000	0	100	70	130			
Trichloroethene (TCE)	0.42	0.30	0.4000	0	105	70	130			
Surr: 1,2-Dichloroethane-d4	0.20		0.2000		101	70	130			
Surr: 4-Bromofluorobenzene	0.20		0.2000		97.8	70	130			
Surr: Dibromofluoromethane	0.21		0.2000		105	70	130			
Surr: Toluene-d8	0.19		0.2000		96.4	70	130			

Sample ID: MB-65818	SampType: MBLK	TestCode: Volatiles by 8260B/1311								
Client ID: PBS	Batch ID: 65818	RunNo: 86159								
Prep Date: 2/25/2022	Analysis Date: 3/1/2022	SeqNo: 3037899	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.50								
2-Butanone	ND	200								
Carbon Tetrachloride	ND	0.50								
Chlorobenzene	ND	100								
Chloroform	ND	6.0								
1,4-Dichlorobenzene	ND	7.5								
1,2-Dichloroethane (EDC)	ND	0.50								
1,1-Dichloroethene	ND	0.70								
Tetrachloroethene (PCE)	ND	0.70								
Trichloroethene (TCE)	ND	0.50								
Vinyl chloride	ND	0.20								
Surr: 1,2-Dichloroethane-d4	0.20		0.2000		100	70	130			
Surr: 4-Bromofluorobenzene	0.19		0.2000		95.5	70	130			
Surr: Dibromofluoromethane	0.21		0.2000		104	70	130			
Surr: Toluene-d8	0.19		0.2000		94.1	70	130			

Sample ID: 2202A85-001ams	SampType: MS	TestCode: Volatiles by 8260B/1311								
Client ID: Soil Tank 13	Batch ID: 65818	RunNo: 86159								
Prep Date: 2/25/2022	Analysis Date: 3/1/2022	SeqNo: 3037901	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.0	0.30	0.4000	2.564	115	70	130			E
Chlorobenzene	0.43	0.30	0.4000	0	108	70	130			
1,1-Dichloroethene	0.37	0.30	0.4000	0	93.6	58.8	131			
Trichloroethene (TCE)	0.42	0.30	0.4000	0.008440	103	70	130			
Surr: 1,2-Dichloroethane-d4	0.19		0.2000		95.6	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202A85

21-Mar-22

Client: Western Refining Southwest, Inc.

Project: Soil Tank 13

Sample ID: 2202A85-001ams	SampType: MS	TestCode: Volatiles by 8260B/1311								
Client ID: Soil Tank 13	Batch ID: 65818	RunNo: 86159								
Prep Date: 2/25/2022	Analysis Date: 3/1/2022	SeqNo: 3037901	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.18		0.2000		91.9	70	130			
Surr: Dibromofluoromethane	0.20		0.2000		101	70	130			
Surr: Toluene-d8	0.21		0.2000		104	70	130			

Sample ID: 2202A85-001amsd	SampType: MSD	TestCode: Volatiles by 8260B/1311								
Client ID: Soil Tank 13	Batch ID: 65818	RunNo: 86159								
Prep Date: 2/25/2022	Analysis Date: 3/1/2022	SeqNo: 3037902	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	2.9	0.30	0.4000	2.564	77.7	70	130	5.09	20	E
Chlorobenzene	0.40	0.30	0.4000	0	101	70	130	6.99	20	
1,1-Dichloroethene	0.35	0.30	0.4000	0	88.6	58.8	131	5.59	20	
Trichloroethene (TCE)	0.39	0.30	0.4000	0.008440	95.9	70	130	6.90	20	
Surr: 1,2-Dichloroethane-d4	0.19		0.2000		95.9	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.18		0.2000		90.9	70	130	0	0	
Surr: Dibromofluoromethane	0.20		0.2000		98.7	70	130	0	0	
Surr: Toluene-d8	0.21		0.2000		103	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202A85

21-Mar-22

Client: Western Refining Southwest, Inc.

Project: Soil Tank 13

Sample ID: MB-65826	SampType: MBLK	TestCode: EPA Method 8270C TCLP			
Client ID: PBS	Batch ID: 65826	RunNo: 86291			
Prep Date: 2/28/2022	Analysis Date: 3/7/2022	SeqNo: 3042454	Units: mg/L		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	ND	200								
3+4-Methylphenol	ND	200								
2,4-Dinitrotoluene	ND	0.13								
Hexachlorobenzene	ND	0.13								
Hexachlorobutadiene	ND	0.50								
Hexachloroethane	ND	3.0								
Nitrobenzene	ND	2.0								
Pentachlorophenol	ND	100								
Pyridine	ND	5.0								
2,4,5-Trichlorophenol	ND	400								
2,4,6-Trichlorophenol	ND	2.0								
Cresols, Total	ND	200								
Surr: 2-Fluorophenol	0.089		0.2000		44.6	30.7	86.1			
Surr: Phenol-d5	0.068		0.2000		33.9	22.6	64			
Surr: 2,4,6-Tribromophenol	0.10		0.2000		52.1	46.3	109			
Surr: Nitrobenzene-d5	0.052		0.1000		51.7	33.1	110			
Surr: 2-Fluorobiphenyl	0.047		0.1000		46.5	39.1	93.8			
Surr: 4-Terphenyl-d14	0.096		0.1000		95.6	55.6	172			

Sample ID: LCS-65826	SampType: LCS	TestCode: EPA Method 8270C TCLP			
Client ID: LCSS	Batch ID: 65826	RunNo: 86291			
Prep Date: 2/28/2022	Analysis Date: 3/7/2022	SeqNo: 3042455	Units: mg/L		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	0.031	0.00010	0.1000	0	31.1	17.1	95.2			
3+4-Methylphenol	0.063	0.00010	0.2000	0	31.6	15	102			
2,4-Dinitrotoluene	0.025	0.00010	0.1000	0	25.1	15	85.7			
Hexachlorobenzene	0.045	0.00010	0.1000	0	45.4	48.1	102			S
Hexachlorobutadiene	0.024	0.00010	0.1000	0	23.9	16.7	90.8			
Hexachloroethane	0.027	0.00010	0.1000	0	27.1	16.8	83.3			
Nitrobenzene	0.034	0.00010	0.1000	0	34.4	21.8	104			
Pentachlorophenol	0.049	0.00010	0.1000	0	48.8	26.7	104			
Pyridine	0.022	0.00010	0.1000	0	21.6	15	75.5			
2,4,5-Trichlorophenol	0.034	0.00010	0.1000	0	34.4	17.4	113			
2,4,6-Trichlorophenol	0.032	0.00010	0.1000	0	32.4	20	109			
Cresols, Total	0.094	0.00010	0.3000	0	31.4	5.83	117			
Surr: 2-Fluorophenol	0.053		0.2000		26.5	30.7	86.1			S
Surr: Phenol-d5	0.042		0.2000		20.8	22.6	64			S
Surr: 2,4,6-Tribromophenol	0.077		0.2000		38.5	46.3	109			S

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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202A85

21-Mar-22

Client: Western Refining Southwest, Inc.

Project: Soil Tank 13

Sample ID: LCS-65826	SampType: LCS	TestCode: EPA Method 8270C TCLP								
Client ID: LCSS	Batch ID: 65826	RunNo: 86291								
Prep Date: 2/28/2022	Analysis Date: 3/7/2022	SeqNo: 3042455	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Nitrobenzene-d5	0.034		0.1000		34.5	33.1	110			
Surr: 2-Fluorobiphenyl	0.032		0.1000		32.4	39.1	93.8			S
Surr: 4-Terphenyl-d14	0.089		0.1000		88.7	55.6	172			

Sample ID: 2202A85-001AMS	SampType: MS	TestCode: EPA Method 8270C TCLP								
Client ID: Soil Tank 13	Batch ID: 65826	RunNo: 86291								
Prep Date: 2/28/2022	Analysis Date: 3/7/2022	SeqNo: 3042457	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	0.066	0.00010	0.1000	0	66.1	43.1	114			
3+4-Methylphenol	0.12	0.00010	0.2000	0	60.7	37.8	128			
2,4-Dinitrotoluene	0.041	0.00010	0.1000	0	41.1	36.5	125			
Hexachlorobenzene	0.061	0.00010	0.1000	0	60.9	41.4	108			
Hexachlorobutadiene	0.042	0.00010	0.1000	0	42.3	30.4	101			
Hexachloroethane	0.049	0.00010	0.1000	0	49.1	37.3	115			
Nitrobenzene	0.055	0.00010	0.1000	0	55.3	40.2	132			
Pentachlorophenol	0.053	0.00010	0.1000	0	52.8	8.72	103			
Pyridine	0.040	0.00010	0.1000	0	39.5	9.36	106			
2,4,5-Trichlorophenol	0.051	0.00010	0.1000	0	51.3	16.5	123			
2,4,6-Trichlorophenol	0.054	0.00010	0.1000	0	53.8	11.3	117			
Cresols, Total	0.19	0.00010	0.3000	0	62.5	23.2	151			
Surr: 2-Fluorophenol	0.090		0.2000		45.1	30.7	86.1			
Surr: Phenol-d5	0.068		0.2000		34.1	22.6	64			
Surr: 2,4,6-Tribromophenol	0.12		0.2000		59.2	46.3	109			
Surr: Nitrobenzene-d5	0.055		0.1000		55.2	33.1	110			
Surr: 2-Fluorobiphenyl	0.051		0.1000		50.6	39.1	93.8			
Surr: 4-Terphenyl-d14	0.088		0.1000		88.4	55.6	172			

Sample ID: 2202A85-001AMSD	SampType: MSD	TestCode: EPA Method 8270C TCLP								
Client ID: Soil Tank 13	Batch ID: 65826	RunNo: 86291								
Prep Date: 2/28/2022	Analysis Date: 3/7/2022	SeqNo: 3042458	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	0.062	0.00010	0.1000	0	62.4	43.1	114	5.73	28.4	
3+4-Methylphenol	0.12	0.00010	0.2000	0	60.1	37.8	128	0.993	29.4	
2,4-Dinitrotoluene	0.042	0.00010	0.1000	0	42.3	36.5	125	3.04	24.7	
Hexachlorobenzene	0.064	0.00010	0.1000	0	64.0	41.4	108	5.02	20	
Hexachlorobutadiene	0.041	0.00010	0.1000	0	41.1	30.4	101	3.00	29	
Hexachloroethane	0.045	0.00010	0.1000	0	45.5	37.3	115	7.68	25.2	
Nitrobenzene	0.057	0.00010	0.1000	0	56.8	40.2	132	2.65	26.9	

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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202A85
21-Mar-22

Client: Western Refining Southwest, Inc.
Project: Soil Tank 13

Sample ID: 2202A85-001AMSD	SampType: MSD	TestCode: EPA Method 8270C TCLP								
Client ID: Soil Tank 13	Batch ID: 65826	RunNo: 86291								
Prep Date: 2/28/2022	Analysis Date: 3/7/2022	SeqNo: 3042458 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Pentachlorophenol	0.054	0.00010	0.1000	0	54.3	8.72	103	2.92	59.2	
Pyridine	0.029	0.00010	0.1000	0	29.4	9.36	106	29.5	48	
2,4,5-Trichlorophenol	0.060	0.00010	0.1000	0	59.7	16.5	123	15.2	70.8	
2,4,6-Trichlorophenol	0.058	0.00010	0.1000	0	57.9	11.3	117	7.38	78	
Cresols, Total	0.18	0.00010	0.3000	0	60.9	23.2	151	2.64	30.8	
Surr: 2-Fluorophenol	0.093		0.2000		46.5	30.7	86.1	0	0	
Surr: Phenol-d5	0.074		0.2000		36.9	22.6	64	0	0	
Surr: 2,4,6-Tribromophenol	0.12		0.2000		61.4	46.3	109	0	0	
Surr: Nitrobenzene-d5	0.056		0.1000		56.0	33.1	110	0	0	
Surr: 2-Fluorobiphenyl	0.055		0.1000		54.8	39.1	93.8	0	0	
Surr: 4-Terphenyl-d14	0.088		0.1000		87.7	55.6	172	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202A85

21-Mar-22

Client: Western Refining Southwest, Inc.
Project: Soil Tank 13

Sample ID: MB-65950	SampType: MBLK	TestCode: MERCURY, TCLP								
Client ID: PBW	Batch ID: 65950	RunNo: 86267								
Prep Date: 3/4/2022	Analysis Date: 3/4/2022	SeqNo: 3041112 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020								

Sample ID: LCSLL-65950	SampType: LCSLL	TestCode: MERCURY, TCLP								
Client ID: BatchQC	Batch ID: 65950	RunNo: 86267								
Prep Date: 3/4/2022	Analysis Date: 3/4/2022	SeqNo: 3041113 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.0001500	0	92.2	50	150			

Sample ID: LCS-65950	SampType: LCS	TestCode: MERCURY, TCLP								
Client ID: LCSW	Batch ID: 65950	RunNo: 86267								
Prep Date: 3/4/2022	Analysis Date: 3/4/2022	SeqNo: 3041114 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	94.0	80	120			

Sample ID: 2202A85-001AMS	SampType: MS	TestCode: MERCURY, TCLP								
Client ID: Soil Tank 13	Batch ID: 65950	RunNo: 86267								
Prep Date: 3/4/2022	Analysis Date: 3/4/2022	SeqNo: 3041136 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	89.0	75	125			

Sample ID: 2202A85-001AMSD	SampType: MSD	TestCode: MERCURY, TCLP								
Client ID: Soil Tank 13	Batch ID: 65950	RunNo: 86267								
Prep Date: 3/4/2022	Analysis Date: 3/4/2022	SeqNo: 3041137 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	89.8	75	125	0	20	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202A85

21-Mar-22

Client: Western Refining Southwest, Inc.
Project: Soil Tank 13

Sample ID: MB-65805	SampType: MBLK	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: PBW	Batch ID: 65805	RunNo: 86167								
Prep Date: 2/25/2022	Analysis Date: 2/28/2022	SeqNo: 3036814 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Barium	ND	100								
Cadmium	ND	1.0								
Chromium	ND	5.0								
Lead	ND	5.0								

Sample ID: LCS-65805	SampType: LCS	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: LCSW	Batch ID: 65805	RunNo: 86167								
Prep Date: 2/25/2022	Analysis Date: 2/28/2022	SeqNo: 3036817 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Barium	ND	100	0.5000	0	101	80	120			
Cadmium	ND	1.0	0.5000	0	106	80	120			
Chromium	ND	5.0	0.5000	0	103	80	120			
Lead	ND	5.0	0.5000	0	97.3	80	120			

Sample ID: 2202A85-001AMS	SampType: MS	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: Soil Tank 13	Batch ID: 65805	RunNo: 86167								
Prep Date: 2/25/2022	Analysis Date: 2/28/2022	SeqNo: 3036838 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Barium	ND	100	0.5000	1.045	82.1	75	125			
Cadmium	ND	1.0	0.5000	0	99.3	75	125			
Chromium	ND	5.0	0.5000	0	90.7	75	125			
Lead	ND	5.0	0.5000	0.01366	86.1	75	125			

Sample ID: 2202A85-001AMSD	SampType: MSD	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: Soil Tank 13	Batch ID: 65805	RunNo: 86167								
Prep Date: 2/25/2022	Analysis Date: 2/28/2022	SeqNo: 3036839 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Barium	ND	100	0.5000	1.045	84.1	75	125	0	20	
Cadmium	ND	1.0	0.5000	0	98.4	75	125	0	20	
Chromium	ND	5.0	0.5000	0	89.7	75	125	0	20	
Lead	ND	5.0	0.5000	0.01366	84.1	75	125	0	20	

Sample ID: MB-65805	SampType: MBLK	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: PBW	Batch ID: 65805	RunNo: 86167								
Prep Date: 2/25/2022	Analysis Date: 3/1/2022	SeqNo: 3036858 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202A85

21-Mar-22

Client: Western Refining Southwest, Inc.

Project: Soil Tank 13

Sample ID: MB-65805	SampType: MBLK	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: PBW	Batch ID: 65805	RunNo: 86167								
Prep Date: 2/25/2022	Analysis Date: 3/1/2022	SeqNo: 3036858	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0								
Selenium	ND	1.0								
Silver	ND	5.0								

Sample ID: LCS-65805	SampType: LCS	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: LCSW	Batch ID: 65805	RunNo: 86167								
Prep Date: 2/25/2022	Analysis Date: 3/1/2022	SeqNo: 3036860	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0	0.5000	0	101	80	120			
Selenium	ND	1.0	0.5000	0	94.1	80	120			
Silver	ND	5.0	0.1000	0	112	80	120			

Sample ID: 2202A85-001AMS	SampType: MS	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: Soil Tank 13	Batch ID: 65805	RunNo: 86167								
Prep Date: 2/25/2022	Analysis Date: 3/1/2022	SeqNo: 3036901	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	ND	5.0	0.1000	0.004121	108	75	125			

Sample ID: 2202A85-001AMSD	SampType: MSD	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: Soil Tank 13	Batch ID: 65805	RunNo: 86167								
Prep Date: 2/25/2022	Analysis Date: 3/1/2022	SeqNo: 3036902	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	ND	5.0	0.1000	0.004121	108	75	125	0	20	

Sample ID: 2202A85-001AMS	SampType: MS	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: Soil Tank 13	Batch ID: 65805	RunNo: 86380								
Prep Date: 2/25/2022	Analysis Date: 3/9/2022	SeqNo: 3046663	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0	0.5000	0	100	75	125			
Selenium	ND	1.0	0.5000	0	94.1	75	125			

Sample ID: 2202A85-001AMSD	SampType: MSD	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: Soil Tank 13	Batch ID: 65805	RunNo: 86380								
Prep Date: 2/25/2022	Analysis Date: 3/9/2022	SeqNo: 3046664	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202A85

21-Mar-22

Client: Western Refining Southwest, Inc.
Project: Soil Tank 13

Sample ID: 2202A85-001AMSD	SampType: MSD	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: Soil Tank 13	Batch ID: 65805	RunNo: 86380								
Prep Date: 2/25/2022	Analysis Date: 3/9/2022	SeqNo: 3046664	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0	0.5000	0	98.8	75	125	0	20	
Selenium	ND	1.0	0.5000	0	93.2	75	125	0	20	

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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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

Sample Log-In Check List

Client Name: Western Refining Southwest, Inc.

Work Order Number: 2202A85

RcptNo: 1

Received By: Tracy Casarrubias 2/23/2022 7:45:00 AM

Completed By: Tracy Casarrubias 2/23/2022 12:24:55 PM

Reviewed By: *JA 2/23/22*

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes No NA
 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
 5. Sample(s) in proper container(s)? Yes No
Samples not Frozen.
 6. Sufficient sample volume for indicated test(s)? Yes No
 7. Are samples (except VOA and ONG) properly preserved? Yes No
 8. Was preservative added to bottles? Yes No NA
 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
 10. Were any sample containers received broken? Yes No
 11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 12. Are matrices correctly identified on Chain of Custody? Yes No
 13. Is it clear what analyses were requested? Yes No
 14. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH:
 (<2 or >12 unless noted)

Adjusted?

Checked by: *me 2/23/22*

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	-1.1	Good	Yes			

Chain-of-Custody Record

Client: Western Refining Terminal

Mailing Address: 50 CR 4990

Bloomfield, NM 87413

Phone #: 505-632-4195

email or Fax: gfrussell@marathonpetroleum.com

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation: Az Compliance

NELAC Other

EDD (Type)

Turn-Around Time:

Standard Rush

Project Name: Soil Tank 13

Project #:

PO # 4500259722

Project Manager:

Gary Russell

Sampler: F.D.

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): -1.1 - 0.2 - 1.1

Container Type and #: 2 x 250 ML
Preservative Type: none
HEAL No. 2202AB5
COI

Date: 2/22/2022
Time: 12:30

Matrix: Soil

Sample Name: Soil Tank 13

Analysis Request	TCLP RCRA 8 Metals	8260 TCLP list	8270 TCLP List
	x	x	x

Received by: *Gary Russell* Date: 2/22/22 Time: 1455

Received by: *Gary Russell* Date: 2/25/22 Time: 7:45

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

April 13, 2022

Gary Russell

Western Refining Southwest, Inc.

#50 CR 4990

Bloomfield, NM 87413

TEL: (505) 632-4135

FAX: (505) 632-3911

RE: Tank13 Confirmation

OrderNo.: 2203295

Dear Gary Russell:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/4/2022 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2203295

Date Reported: 4/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Tank 13 Confirmation North

Project: Tank13 Confirmation

Collection Date: 3/3/2022 9:00:00 AM

Lab ID: 2203295-001

Matrix: SOIL

Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270C TCLP							Analyst: JME
2-Methylphenol	ND	200		mg/L	1	3/17/2022 12:48:31 PM	66170
3+4-Methylphenol	ND	200		mg/L	1	3/17/2022 12:48:31 PM	66170
2,4-Dinitrotoluene	ND	0.13		mg/L	1	3/17/2022 12:48:31 PM	66170
Hexachlorobenzene	ND	0.13		mg/L	1	3/17/2022 12:48:31 PM	66170
Hexachlorobutadiene	ND	0.50		mg/L	1	3/17/2022 12:48:31 PM	66170
Hexachloroethane	ND	3.0		mg/L	1	3/17/2022 12:48:31 PM	66170
Nitrobenzene	ND	2.0		mg/L	1	3/17/2022 12:48:31 PM	66170
Pentachlorophenol	ND	100		mg/L	1	3/17/2022 12:48:31 PM	66170
Pyridine	ND	5.0		mg/L	1	3/17/2022 12:48:31 PM	66170
2,4,5-Trichlorophenol	ND	400		mg/L	1	3/17/2022 12:48:31 PM	66170
2,4,6-Trichlorophenol	ND	2.0		mg/L	1	3/17/2022 12:48:31 PM	66170
Cresols, Total	ND	200		mg/L	1	3/17/2022 12:48:31 PM	66170
Surr: 2-Fluorophenol	46.9	30.7-86.1		%Rec	1	3/17/2022 12:48:31 PM	66170
Surr: Phenol-d5	36.4	22.6-64		%Rec	1	3/17/2022 12:48:31 PM	66170
Surr: 2,4,6-Tribromophenol	67.7	46.3-109		%Rec	1	3/17/2022 12:48:31 PM	66170
Surr: Nitrobenzene-d5	55.8	33.1-110		%Rec	1	3/17/2022 12:48:31 PM	66170
Surr: 2-Fluorobiphenyl	56.7	39.1-93.8		%Rec	1	3/17/2022 12:48:31 PM	66170
Surr: 4-Terphenyl-d14	87.1	55.6-172		%Rec	1	3/17/2022 12:48:31 PM	66170
VOLATILES BY 8260B/1311							Analyst: CCM
Benzene	ND	0.50		mg/L	1	3/15/2022 12:37:00 PM	66109
2-Butanone	ND	200		mg/L	1	3/15/2022 12:37:00 PM	66109
Carbon Tetrachloride	ND	0.50		mg/L	1	3/15/2022 12:37:00 PM	66109
Chlorobenzene	ND	100		mg/L	1	3/15/2022 12:37:00 PM	66109
Chloroform	ND	6.0		mg/L	1	3/15/2022 12:37:00 PM	66109
1,4-Dichlorobenzene	ND	7.5		mg/L	1	3/15/2022 12:37:00 PM	66109
1,2-Dichloroethane (EDC)	ND	0.50		mg/L	1	3/15/2022 12:37:00 PM	66109
1,1-Dichloroethene	ND	0.70		mg/L	1	3/15/2022 12:37:00 PM	66109
Tetrachloroethene (PCE)	ND	0.70		mg/L	1	3/15/2022 12:37:00 PM	66109
Trichloroethene (TCE)	ND	0.50		mg/L	1	3/15/2022 12:37:00 PM	66109
Vinyl chloride	ND	0.20		mg/L	1	3/15/2022 12:37:00 PM	66109
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	3/15/2022 12:37:00 PM	66109
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	3/15/2022 12:37:00 PM	66109
Surr: Dibromofluoromethane	104	70-130		%Rec	1	3/15/2022 12:37:00 PM	66109
Surr: Toluene-d8	99.6	70-130		%Rec	1	3/15/2022 12:37:00 PM	66109

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Estimated value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

Analytical Report

Lab Order 2203295

Date Reported: 4/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Tank 13 Confirmation South

Project: Tank13 Confirmation

Collection Date: 3/3/2022 9:10:00 AM

Lab ID: 2203295-002

Matrix: SOIL

Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270C TCLP							Analyst: JME
2-Methylphenol	ND	200		mg/L	1	4/1/2022 9:55:45 PM	66170
3+4-Methylphenol	ND	200		mg/L	1	4/1/2022 9:55:45 PM	66170
2,4-Dinitrotoluene	ND	0.13		mg/L	1	4/1/2022 9:55:45 PM	66170
Hexachlorobenzene	ND	0.13		mg/L	1	4/1/2022 9:55:45 PM	66170
Hexachlorobutadiene	ND	0.50		mg/L	1	4/1/2022 9:55:45 PM	66170
Hexachloroethane	ND	3.0		mg/L	1	4/1/2022 9:55:45 PM	66170
Nitrobenzene	ND	2.0		mg/L	1	4/1/2022 9:55:45 PM	66170
Pentachlorophenol	ND	100		mg/L	1	4/1/2022 9:55:45 PM	66170
Pyridine	ND	5.0		mg/L	1	4/1/2022 9:55:45 PM	66170
2,4,5-Trichlorophenol	ND	400		mg/L	1	4/1/2022 9:55:45 PM	66170
2,4,6-Trichlorophenol	ND	2.0		mg/L	1	4/1/2022 9:55:45 PM	66170
Cresols, Total	ND	200		mg/L	1	4/1/2022 9:55:45 PM	66170
Surr: 2-Fluorophenol	53.6	30.7-86.1		%Rec	1	4/1/2022 9:55:45 PM	66170
Surr: Phenol-d5	41.8	22.6-64		%Rec	1	4/1/2022 9:55:45 PM	66170
Surr: 2,4,6-Tribromophenol	72.1	46.3-109		%Rec	1	4/1/2022 9:55:45 PM	66170
Surr: Nitrobenzene-d5	67.0	33.1-110		%Rec	1	4/1/2022 9:55:45 PM	66170
Surr: 2-Fluorobiphenyl	62.9	39.1-93.8		%Rec	1	4/1/2022 9:55:45 PM	66170
Surr: 4-Terphenyl-d14	80.2	55.6-172		%Rec	1	4/1/2022 9:55:45 PM	66170
VOLATILES BY 8260B/1311							Analyst: CCM
Benzene	ND	0.50		mg/L	1	3/15/2022 1:00:00 PM	66109
2-Butanone	ND	200		mg/L	1	3/15/2022 1:00:00 PM	66109
Carbon Tetrachloride	ND	0.50		mg/L	1	3/15/2022 1:00:00 PM	66109
Chlorobenzene	ND	100		mg/L	1	3/15/2022 1:00:00 PM	66109
Chloroform	ND	6.0		mg/L	1	3/15/2022 1:00:00 PM	66109
1,4-Dichlorobenzene	ND	7.5		mg/L	1	3/15/2022 1:00:00 PM	66109
1,2-Dichloroethane (EDC)	ND	0.50		mg/L	1	3/15/2022 1:00:00 PM	66109
1,1-Dichloroethene	ND	0.70		mg/L	1	3/15/2022 1:00:00 PM	66109
Tetrachloroethene (PCE)	ND	0.70		mg/L	1	3/15/2022 1:00:00 PM	66109
Trichloroethene (TCE)	ND	0.50		mg/L	1	3/15/2022 1:00:00 PM	66109
Vinyl chloride	ND	0.20		mg/L	1	3/15/2022 1:00:00 PM	66109
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	3/15/2022 1:00:00 PM	66109
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/15/2022 1:00:00 PM	66109
Surr: Dibromofluoromethane	103	70-130		%Rec	1	3/15/2022 1:00:00 PM	66109
Surr: Toluene-d8	101	70-130		%Rec	1	3/15/2022 1:00:00 PM	66109

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Estimated value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203295

13-Apr-22

Client: Western Refining Southwest, Inc.

Project: Tank13 Confirmation

Sample ID: ics-66109	SampType: LCS	TestCode: Volatiles by 8260B/1311								
Client ID: LCSS	Batch ID: 66109	RunNo: 86451								
Prep Date: 3/10/2022	Analysis Date: 3/14/2022	SeqNo: 3050588	Units: mg/L							

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.37	0.30	0.4000	0	93.4	70	130			
Chlorobenzene	0.38	0.30	0.4000	0	95.8	70	130			
1,1-Dichloroethene	0.33	0.30	0.4000	0	83.0	70	130			
Trichloroethene (TCE)	0.36	0.30	0.4000	0	89.5	70	130			
Surr: 1,2-Dichloroethane-d4	0.20		0.2000		101	70	130			
Surr: 4-Bromofluorobenzene	0.21		0.2000		103	70	130			
Surr: Dibromofluoromethane	0.20		0.2000		99.5	70	130			
Surr: Toluene-d8	0.20		0.2000		98.7	70	130			

Sample ID: mb-66109	SampType: MBLK	TestCode: Volatiles by 8260B/1311								
Client ID: PBS	Batch ID: 66109	RunNo: 86451								
Prep Date: 3/10/2022	Analysis Date: 3/14/2022	SeqNo: 3050589	Units: mg/L							

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.50								
2-Butanone	ND	200								
Carbon Tetrachloride	ND	0.50								
Chlorobenzene	ND	100								
Chloroform	ND	6.0								
1,4-Dichlorobenzene	ND	7.5								
1,2-Dichloroethane (EDC)	ND	0.50								
1,1-Dichloroethene	ND	0.70								
Tetrachloroethene (PCE)	ND	0.70								
Trichloroethene (TCE)	ND	0.50								
Vinyl chloride	ND	0.20								
Surr: 1,2-Dichloroethane-d4	0.21		0.2000		104	70	130			
Surr: 4-Bromofluorobenzene	0.20		0.2000		102	70	130			
Surr: Dibromofluoromethane	0.20		0.2000		99.8	70	130			
Surr: Toluene-d8	0.20		0.2000		101	70	130			

Sample ID: 2203295-001ams	SampType: MS	TestCode: Volatiles by 8260B/1311								
Client ID: Tank 13 Confirmatio	Batch ID: 66109	RunNo: 86460								
Prep Date: 3/10/2022	Analysis Date: 3/15/2022	SeqNo: 3052306	Units: mg/L							

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.47	0.30	0.4000	0	117	70	130			
Chlorobenzene	0.46	0.30	0.4000	0	116	70	130			
1,1-Dichloroethene	0.42	0.30	0.4000	0	104	58.8	131			
Trichloroethene (TCE)	0.43	0.30	0.4000	0	108	70	130			
Surr: 1,2-Dichloroethane-d4	0.22		0.2000		108	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203295
13-Apr-22

Client: Western Refining Southwest, Inc.
Project: Tank13 Confirmation

Sample ID: 2203295-001ams	SampType: MS	TestCode: Volatiles by 8260B/1311								
Client ID: Tank 13 Confirmatio	Batch ID: 66109	RunNo: 86460								
Prep Date: 3/10/2022	Analysis Date: 3/15/2022	SeqNo: 3052306	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.20		0.2000		99.7	70	130			
Surr: Dibromofluoromethane	0.20		0.2000		102	70	130			
Surr: Toluene-d8	0.20		0.2000		99.9	70	130			

Sample ID: 2203295-001amsd	SampType: MSD	TestCode: Volatiles by 8260B/1311								
Client ID: Tank 13 Confirmatio	Batch ID: 66109	RunNo: 86460								
Prep Date: 3/10/2022	Analysis Date: 3/15/2022	SeqNo: 3052307	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.44	0.30	0.4000	0	110	70	130	6.42	20	
Chlorobenzene	0.44	0.30	0.4000	0	110	70	130	5.43	20	
1,1-Dichloroethene	0.40	0.30	0.4000	0	99.0	58.8	131	5.16	20	
Trichloroethene (TCE)	0.41	0.30	0.4000	0	103	70	130	4.84	20	
Surr: 1,2-Dichloroethane-d4	0.22		0.2000		108	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.21		0.2000		103	70	130	0	0	
Surr: Dibromofluoromethane	0.20		0.2000		100	70	130	0	0	
Surr: Toluene-d8	0.20		0.2000		99.4	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203295
13-Apr-22

Client: Western Refining Southwest, Inc.
Project: Tank13 Confirmation

Sample ID: MB-66170	SampType: MBLK	TestCode: EPA Method 8270C TCLP								
Client ID: PBS	Batch ID: 66170	RunNo: 86559								
Prep Date: 3/15/2022	Analysis Date: 3/17/2022	SeqNo: 3054969 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	ND	200								
3+4-Methylphenol	ND	200								
2,4-Dinitrotoluene	ND	0.13								
Hexachlorobenzene	ND	0.13								
Hexachlorobutadiene	ND	0.50								
Hexachloroethane	ND	3.0								
Nitrobenzene	ND	2.0								
Pentachlorophenol	ND	100								
Pyridine	ND	5.0								
2,4,5-Trichlorophenol	ND	400								
2,4,6-Trichlorophenol	ND	2.0								
Cresols, Total	ND	200								
Surr: 2-Fluorophenol	0.11		0.2000		53.5	30.7	86.1			
Surr: Phenol-d5	0.082		0.2000		40.8	22.6	64			
Surr: 2,4,6-Tribromophenol	0.14		0.2000		68.9	46.3	109			
Surr: Nitrobenzene-d5	0.063		0.1000		63.5	33.1	110			
Surr: 2-Fluorobiphenyl	0.064		0.1000		63.9	39.1	93.8			
Surr: 4-Terphenyl-d14	0.10		0.1000		100	55.6	172			

Sample ID: LCS-66170	SampType: LCS	TestCode: EPA Method 8270C TCLP								
Client ID: LCSS	Batch ID: 66170	RunNo: 86559								
Prep Date: 3/15/2022	Analysis Date: 3/17/2022	SeqNo: 3054970 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	0.054	0.00010	0.1000	0	54.1	17.1	95.2			
3+4-Methylphenol	0.12	0.00010	0.2000	0	58.2	15	102			
2,4-Dinitrotoluene	0.047	0.00010	0.1000	0	46.6	15	85.7			
Hexachlorobenzene	0.065	0.00010	0.1000	0	65.4	48.1	102			
Hexachlorobutadiene	0.050	0.00010	0.1000	0	49.7	16.7	90.8			
Hexachloroethane	0.055	0.00010	0.1000	0	55.0	16.8	83.3			
Nitrobenzene	0.062	0.00010	0.1000	0	62.3	21.8	104			
Pentachlorophenol	0.054	0.00010	0.1000	0	54.3	26.7	104			
Pyridine	0.041	0.00010	0.1000	0	40.5	15	75.5			
2,4,5-Trichlorophenol	0.061	0.00010	0.1000	0	61.2	17.4	113			
2,4,6-Trichlorophenol	0.056	0.00010	0.1000	0	55.7	20	109			
Cresols, Total	0.17	0.00010	0.3000	0	56.8	5.83	117			
Surr: 2-Fluorophenol	0.097		0.2000		48.4	30.7	86.1			
Surr: Phenol-d5	0.074		0.2000		37.0	22.6	64			
Surr: 2,4,6-Tribromophenol	0.13		0.2000		63.1	46.3	109			

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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203295

13-Apr-22

Client: Western Refining Southwest, Inc.
Project: Tank13 Confirmation

Sample ID: LCS-66170	SampType: LCS	TestCode: EPA Method 8270C TCLP								
Client ID: LCSS	Batch ID: 66170	RunNo: 86559								
Prep Date: 3/15/2022	Analysis Date: 3/17/2022	SeqNo: 3054970	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Nitrobenzene-d5	0.061		0.1000		61.1	33.1	110			
Surr: 2-Fluorobiphenyl	0.058		0.1000		58.5	39.1	93.8			
Surr: 4-Terphenyl-d14	0.088		0.1000		87.9	55.6	172			

Sample ID: 2203295-001AMS	SampType: MS	TestCode: EPA Method 8270C TCLP								
Client ID: Tank 13 Confirmatio	Batch ID: 66170	RunNo: 86559								
Prep Date: 3/15/2022	Analysis Date: 3/17/2022	SeqNo: 3054972	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	0.053	0.00010	0.1000	0	53.2	43.1	114			
3+4-Methylphenol	0.11	0.00010	0.2000	0	55.3	37.8	128			
2,4-Dinitrotoluene	0.043	0.00010	0.1000	0	42.7	36.5	125			
Hexachlorobenzene	0.064	0.00010	0.1000	0	63.7	41.4	108			
Hexachlorobutadiene	0.051	0.00010	0.1000	0	50.8	30.4	101			
Hexachloroethane	0.059	0.00010	0.1000	0	58.9	37.3	115			
Nitrobenzene	0.060	0.00010	0.1000	0	59.9	40.2	132			
Pentachlorophenol	0.058	0.00010	0.1000	0	58.1	8.72	103			
Pyridine	0.039	0.00010	0.1000	0	38.8	9.36	106			
2,4,5-Trichlorophenol	0.059	0.00010	0.1000	0	58.7	16.5	123			
2,4,6-Trichlorophenol	0.058	0.00010	0.1000	0	57.6	11.3	117			
Cresols, Total	0.17	0.00010	0.3000	0	55.5	23.2	151			
Surr: 2-Fluorophenol	0.091		0.2000		45.6	30.7	86.1			
Surr: Phenol-d5	0.069		0.2000		34.5	22.6	64			
Surr: 2,4,6-Tribromophenol	0.14		0.2000		71.5	46.3	109			
Surr: Nitrobenzene-d5	0.060		0.1000		59.7	33.1	110			
Surr: 2-Fluorobiphenyl	0.056		0.1000		56.2	39.1	93.8			
Surr: 4-Terphenyl-d14	0.091		0.1000		91.3	55.6	172			

Sample ID: 2203295-001AMSD	SampType: MSD	TestCode: EPA Method 8270C TCLP								
Client ID: Tank 13 Confirmatio	Batch ID: 66170	RunNo: 86559								
Prep Date: 3/15/2022	Analysis Date: 3/17/2022	SeqNo: 3054973	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	0.060	0.00010	0.1000	0	59.9	43.1	114	11.9	28.4	
3+4-Methylphenol	0.13	0.00010	0.2000	0	64.2	37.8	128	14.9	29.4	
2,4-Dinitrotoluene	0.046	0.00010	0.1000	0	45.8	36.5	125	6.93	24.7	
Hexachlorobenzene	0.067	0.00010	0.1000	0	66.9	41.4	108	4.89	20	
Hexachlorobutadiene	0.055	0.00010	0.1000	0	55.5	30.4	101	8.77	29	
Hexachloroethane	0.055	0.00010	0.1000	0	55.3	37.3	115	6.25	25.2	
Nitrobenzene	0.064	0.00010	0.1000	0	64.0	40.2	132	6.70	26.9	

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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203295

13-Apr-22

Client: Western Refining Southwest, Inc.

Project: Tank13 Confirmation

Sample ID: 2203295-001AMSD	SampType: MSD	TestCode: EPA Method 8270C TCLP
Client ID: Tank 13 Confirmatio	Batch ID: 66170	RunNo: 86559
Prep Date: 3/15/2022	Analysis Date: 3/17/2022	SeqNo: 3054973 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Pentachlorophenol	0.058	0.00010	0.1000	0	58.3	8.72	103	0.487	59.2	
Pyridine	0.047	0.00010	0.1000	0	46.5	9.36	106	18.1	48	
2,4,5-Trichlorophenol	0.062	0.00010	0.1000	0	62.1	16.5	123	5.62	70.8	
2,4,6-Trichlorophenol	0.059	0.00010	0.1000	0	59.3	11.3	117	2.99	78	
Cresols, Total	0.19	0.00010	0.3000	0	63.7	23.2	151	13.8	30.8	
Surr: 2-Fluorophenol	0.10		0.2000		51.5	30.7	86.1	0	0	
Surr: Phenol-d5	0.078		0.2000		38.8	22.6	64	0	0	
Surr: 2,4,6-Tribromophenol	0.15		0.2000		73.0	46.3	109	0	0	
Surr: Nitrobenzene-d5	0.062		0.1000		62.0	33.1	110	0	0	
Surr: 2-Fluorobiphenyl	0.063		0.1000		62.7	39.1	93.8	0	0	
Surr: 4-Terphenyl-d14	0.088		0.1000		88.0	55.6	172	0	0	

Qualifiers:

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



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

Sample Log-In Check List

Client Name: Western Refining Southwest, Inc.

Work Order Number: 2203295

RcptNo: 1

Received By: Cheyenne Cason 3/4/2022 8:00:00 AM

Cason

Completed By: Tracy Casarrubias 3/4/2022 9:04:15 AM

Reviewed By: *KDG 3/4/22*

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes No NA
 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
 5. Sample(s) in proper container(s)? Yes No
 6. Sufficient sample volume for indicated test(s)? Yes No
 7. Are samples (except VOA and ONG) properly preserved? Yes No
 8. Was preservative added to bottles? Yes No NA
 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
 10. Were any sample containers received broken? Yes No
 11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 12. Are matrices correctly identified on Chain of Custody? Yes No
 13. Is it clear what analyses were requested? Yes No
 14. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH: *7*
 (<2 or >12 unless noted)
 Adjusted?

Checked by: *YN 3/4/22*

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good	Yes			
2	3.8	Good	Yes			

Chain-of-Custody Record

Client: Western Refining Terminal

Mailing Address: 50 CR 4990

Bloomfield, NM 87413

Phone #: 505-632-4195

email or Fax: gfrussell@marathonpetroleum.com

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation: Az Compliance

NELAC Other

EDD (Type)

Turn-Around Time:

Standard Rush

Project Name: Tank 13 Confirmation

Project #:

PO #

Project Manager: Gary Russell

Sampler:

On Ice: Yes No

of Coolers: 2 4.0-0.2 = 3.8

Cooler Temp (including CP): 2.1-0.2 = 1.9

Container Type and #

Preservative Type

HEAL No.

1 x 250 ML

none

001

1 x 250 ML

none

602

Date: 3/3/2022 9:45

Relinquished by: MR

Received by: [Signature]

Date: 3/3/22 17:05

Date: 3/3/22 18:44

Relinquished by: [Signature]

Received by: Eric Cameron

Date: 5/4/22 0800

Remarks:

Analysis Request

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.