

AP - 111

**SWMUs No. 1 (Aeration
Basin) & No. 14 (Old API
Separator)**

Investigation Report (9)

August 2015

SWMU 1 SOILS
METALS J-FLAGGED RESULTS

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210279-001C

Client Sample ID: SWMU 1-2 (6-8')
Collection Date: 10/2/2012 10:00:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	1.3	5.0		mg/Kg	2	10/17/2012 10:26:45 AM	4300
Arsenic	ND	1.3	5.0		mg/Kg	2	10/17/2012 10:26:45 AM	4300
Barium	39	0.12	0.20		mg/Kg	2	10/17/2012 10:26:45 AM	4300
Beryllium	0.61	0.019	0.30		mg/Kg	2	10/17/2012 10:26:45 AM	4300
Cadmium	ND	0.054	0.20		mg/Kg	2	10/17/2012 10:26:45 AM	4300
Chromium	8.1	0.24	0.60		mg/Kg	2	10/17/2012 10:26:45 AM	4300
Cobalt	3.9	0.14	0.60		mg/Kg	2	10/17/2012 10:26:45 AM	4300
Iron	12000	370	500		mg/Kg	500	10/17/2012 12:52:55 PM	4300
Lead	3.5	0.44	0.50		mg/Kg	2	10/17/2012 10:26:45 AM	4300
Manganese	230	0.11	0.50		mg/Kg	5	10/17/2012 12:50:30 PM	4300
Nickel	6.0	0.33	1.0		mg/Kg	2	10/17/2012 10:26:45 AM	4300
Selenium	ND	2.8	5.0		mg/Kg	2	10/23/2012 6:37:37 PM	4300
Silver	ND	0.071	0.50		mg/Kg	2	10/17/2012 10:26:45 AM	4300
Vanadium	16	0.11	5.0		mg/Kg	2	10/17/2012 10:26:45 AM	4300
Zinc	16	2.0	5.0		mg/Kg	2	10/17/2012 10:26:45 AM	4300

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210279-002C

Client Sample ID: SWMU 1-2 (10-11')
Collection Date: 10/2/2012 10:20:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	1.3	5.0		mg/Kg	2	10/17/2012 10:31:47 AM	4300
Arsenic	ND	1.3	5.0		mg/Kg	2	10/17/2012 10:31:47 AM	4300
Barium	220	0.30	0.50		mg/Kg	5	10/17/2012 12:55:32 PM	4300
Beryllium	0.74	0.019	0.30		mg/Kg	2	10/17/2012 10:31:47 AM	4300
Cadmium	ND	0.054	0.20		mg/Kg	2	10/17/2012 10:31:47 AM	4300
Chromium	6.0	0.24	0.60		mg/Kg	2	10/17/2012 10:31:47 AM	4300
Cobalt	3.3	0.14	0.60		mg/Kg	2	10/17/2012 10:31:47 AM	4300
Iron	11000	370	500		mg/Kg	500	10/17/2012 12:59:38 PM	4300
Lead	3.9	0.44	0.50		mg/Kg	2	10/17/2012 10:31:47 AM	4300
Manganese	310	0.21	1.0		mg/Kg	10	10/23/2012 6:42:27 PM	4300
Nickel	5.6	0.33	1.0		mg/Kg	2	10/17/2012 10:31:47 AM	4300
Selenium	ND	2.8	5.0		mg/Kg	2	10/23/2012 6:40:01 PM	4300
Silver	ND	0.071	0.50		mg/Kg	2	10/17/2012 10:31:47 AM	4300
Vanadium	12	0.11	5.0		mg/Kg	2	10/17/2012 10:31:47 AM	4300
Zinc	13	2.0	5.0		mg/Kg	2	10/17/2012 10:31:47 AM	4300

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210279-003C

Client Sample ID: SWMU 1-2 (14-16')
Collection Date: 10/2/2012 10:35:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	1.3	5.0		mg/Kg	2	10/17/2012 10:36:49 AM	4300
Arsenic	ND	1.3	5.0		mg/Kg	2	10/17/2012 10:36:49 AM	4300
Barium	680	1.2	2.0		mg/Kg	20	10/23/2012 6:47:15 PM	4300
Beryllium	0.58	0.019	0.30		mg/Kg	2	10/17/2012 10:36:49 AM	4300
Cadmium	ND	0.054	0.20		mg/Kg	2	10/17/2012 10:36:49 AM	4300
Chromium	6.3	0.24	0.60		mg/Kg	2	10/17/2012 10:36:49 AM	4300
Cobalt	3.5	0.14	0.60		mg/Kg	2	10/17/2012 10:36:49 AM	4300
Iron	12000	370	500		mg/Kg	500	10/17/2012 1:04:52 PM	4300
Lead	3.5	0.44	0.50		mg/Kg	2	10/17/2012 10:36:49 AM	4300
Manganese	360	0.21	1.0		mg/Kg	10	10/17/2012 1:02:29 PM	4300
Nickel	5.7	0.33	1.0		mg/Kg	2	10/17/2012 10:36:49 AM	4300
Selenium	ND	2.8	5.0		mg/Kg	2	10/23/2012 6:44:52 PM	4300
Silver	ND	0.071	0.50		mg/Kg	2	10/17/2012 10:36:49 AM	4300
Vanadium	13	0.11	5.0		mg/Kg	2	10/17/2012 10:36:49 AM	4300
Zinc	13	2.0	5.0		mg/Kg	2	10/17/2012 10:36:49 AM	4300

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/14/2012

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210279-004C

Client Sample ID: SWMU 1-2 (17-17.25')
Collection Date: 10/2/2012 10:50:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/23/2012 6:49:38 PM	4300
Arsenic	ND	1.3	5.0		mg/Kg	2	10/17/2012 10:54:32 AM	4300
Barium	180	0.30	0.50		mg/Kg	5	10/17/2012 1:07:31 PM	4300
Beryllium	0.74	0.019	0.30		mg/Kg	2	10/17/2012 10:54:32 AM	4300
Cadmium	ND	0.054	0.20		mg/Kg	2	10/17/2012 10:54:32 AM	4300
Chromium	6.9	0.24	0.60		mg/Kg	2	10/17/2012 10:54:32 AM	4300
Cobalt	3.8	0.14	0.60		mg/Kg	2	10/17/2012 10:54:32 AM	4300
Iron	12000	370	500		mg/Kg	500	10/17/2012 1:09:55 PM	4300
Lead	4.8	0.44	0.50		mg/Kg	2	10/17/2012 10:54:32 AM	4300
Manganese	280	0.21	1.0		mg/Kg	10	10/23/2012 6:52:01 PM	4300
Nickel	6.7	0.33	1.0		mg/Kg	2	10/17/2012 10:54:32 AM	4300
Selenium	ND	2.8	5.0		mg/Kg	2	10/23/2012 6:49:38 PM	4300
Silver	ND	0.071	0.50		mg/Kg	2	10/17/2012 10:54:32 AM	4300
Vanadium	12	0.11	5.0		mg/Kg	2	10/17/2012 10:54:32 AM	4300
Zinc	13	2.0	5.0		mg/Kg	2	10/17/2012 10:54:32 AM	4300

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210279-005C

Client Sample ID: SWMU 1-2 (19.5-20')
Collection Date: 10/2/2012 11:05:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/23/2012 7:01:34 PM	4300
Arsenic	3.1	1.3	5.0	J	mg/Kg	2	10/17/2012 10:59:42 AM	4300
Barium	1300	3.0	5.0		mg/Kg	50	10/17/2012 1:23:06 PM	4300
Beryllium	0.77	0.019	0.30		mg/Kg	2	10/17/2012 10:59:42 AM	4300
Cadmium	ND	0.054	0.20		mg/Kg	2	10/17/2012 10:59:42 AM	4300
Chromium	12	0.24	0.60		mg/Kg	2	10/17/2012 10:59:42 AM	4300
Cobalt	11	0.14	0.60		mg/Kg	2	10/17/2012 10:59:42 AM	4300
Iron	17000	370	500		mg/Kg	500	10/17/2012 1:25:32 PM	4300
Lead	3.9	0.44	0.50		mg/Kg	2	10/17/2012 10:59:42 AM	4300
Manganese	1200	1.1	5.0		mg/Kg	50	10/17/2012 1:23:06 PM	4300
Nickel	16	0.33	1.0		mg/Kg	2	10/17/2012 10:59:42 AM	4300
Selenium	ND	2.8	5.0		mg/Kg	2	10/23/2012 7:01:34 PM	4300
Silver	ND	0.071	0.50		mg/Kg	2	10/17/2012 10:59:42 AM	4300
Vanadium	14	0.11	5.0		mg/Kg	2	10/17/2012 10:59:42 AM	4300
Zinc	30	2.0	5.0		mg/Kg	2	10/17/2012 10:59:42 AM	4300

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210279-008C

Client Sample ID: SWMU 1-3 (2-4')
Collection Date: 10/2/2012 4:20:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	0.63	2.5		mg/Kg	1	10/23/2012 7:04:15 PM	4300
Arsenic	ND	13	50		mg/Kg	20	10/17/2012 1:28:13 PM	4300
Barium	770	1.2	2.0		mg/Kg	20	10/17/2012 1:28:13 PM	4300
Beryllium	0.39	0.0093	0.15		mg/Kg	1	10/17/2012 11:02:17 AM	4300
Cadmium	ND	0.027	0.10		mg/Kg	1	10/17/2012 11:02:17 AM	4300
Chromium	3.8	0.12	0.30		mg/Kg	1	10/17/2012 11:02:17 AM	4300
Cobalt	2.4	0.069	0.30		mg/Kg	1	10/17/2012 11:02:17 AM	4300
Iron	4800	150	200		mg/Kg	200	10/23/2012 7:09:43 PM	4300
Lead	ND	0.22	0.25		mg/Kg	1	10/17/2012 11:02:17 AM	4300
Manganese	340	0.42	2.0		mg/Kg	20	10/17/2012 1:28:13 PM	4300
Nickel	3.8	0.17	0.50		mg/Kg	1	10/17/2012 11:02:17 AM	4300
Selenium	ND	1.4	2.5		mg/Kg	1	10/23/2012 7:04:15 PM	4300
Silver	ND	0.035	0.25		mg/Kg	1	10/17/2012 11:02:17 AM	4300
Vanadium	11	0.056	2.5		mg/Kg	1	10/17/2012 11:02:17 AM	4300
Zinc	9.1	1.0	2.5		mg/Kg	1	10/17/2012 11:02:17 AM	4300

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210279-009C

Client Sample ID: SWMU 1-3 (10-11')
Collection Date: 10/2/2012 4:35:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/23/2012 7:12:19 PM	4300
Arsenic	2.1	1.3	5.0	J	mg/Kg	2	10/17/2012 11:09:52 AM	4300
Barium	220	0.30	0.50		mg/Kg	5	10/17/2012 1:34:59 PM	4300
Beryllium	0.72	0.019	0.30		mg/Kg	2	10/17/2012 11:09:52 AM	4300
Cadmium	ND	0.054	0.20		mg/Kg	2	10/17/2012 11:09:52 AM	4300
Chromium	7.6	0.24	0.60		mg/Kg	2	10/17/2012 11:09:52 AM	4300
Cobalt	3.6	0.14	0.60		mg/Kg	2	10/17/2012 11:09:52 AM	4300
Iron	11000	370	500		mg/Kg	500	10/17/2012 1:37:26 PM	4300
Lead	3.4	0.44	0.50		mg/Kg	2	10/17/2012 11:09:52 AM	4300
Manganese	420	0.21	1.0		mg/Kg	10	10/23/2012 7:14:46 PM	4300
Nickel	5.7	0.33	1.0		mg/Kg	2	10/17/2012 11:09:52 AM	4300
Selenium	ND	2.8	5.0		mg/Kg	2	10/23/2012 7:12:19 PM	4300
Silver	ND	0.071	0.50		mg/Kg	2	10/17/2012 11:09:52 AM	4300
Vanadium	15	0.11	5.0		mg/Kg	2	10/17/2012 11:09:52 AM	4300
Zinc	11	2.0	5.0		mg/Kg	2	10/17/2012 11:09:52 AM	4300

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/14/2012

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210279-010C

Client Sample ID: SWMU 1-3 (11-11.25')
Collection Date: 10/2/2012 4:50:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/23/2012 7:17:10 PM	4300
Arsenic	1.9	1.3	5.0	J	mg/Kg	2	10/17/2012 11:16:34 AM	4300
Barium	110	0.30	0.50		mg/Kg	5	10/17/2012 1:40:18 PM	4300
Beryllium	0.63	0.019	0.30		mg/Kg	2	10/17/2012 11:16:34 AM	4300
Cadmium	ND	0.054	0.20		mg/Kg	2	10/17/2012 11:16:34 AM	4300
Chromium	4.8	0.24	0.60		mg/Kg	2	10/17/2012 11:16:34 AM	4300
Cobalt	3.2	0.14	0.60		mg/Kg	2	10/17/2012 11:16:34 AM	4300
Iron	10000	370	500		mg/Kg	500	10/17/2012 1:42:41 PM	4300
Lead	4.0	0.44	0.50		mg/Kg	2	10/17/2012 11:16:34 AM	4300
Manganese	380	0.21	1.0		mg/Kg	10	10/23/2012 7:19:37 PM	4300
Nickel	5.0	0.33	1.0		mg/Kg	2	10/17/2012 11:16:34 AM	4300
Selenium	ND	2.8	5.0		mg/Kg	2	10/23/2012 7:17:10 PM	4300
Silver	ND	0.071	0.50		mg/Kg	2	10/17/2012 11:16:34 AM	4300
Vanadium	10	0.11	5.0		mg/Kg	2	10/17/2012 11:16:34 AM	4300
Zinc	10	2.0	5.0		mg/Kg	2	10/17/2012 11:16:34 AM	4300

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210279-011C

Client Sample ID: SWMU 1-3 (18.5-19.5')
Collection Date: 10/2/2012 5:10:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/23/2012 7:22:03 PM	4300
Arsenic	ND	1.3	5.0		mg/Kg	2	10/17/2012 11:32:55 AM	4300
Barium	270	0.61	1.0		mg/Kg	10	10/17/2012 1:45:34 PM	4300
Beryllium	0.79	0.019	0.30		mg/Kg	2	10/17/2012 11:32:55 AM	4300
Cadmium	ND	0.054	0.20		mg/Kg	2	10/17/2012 11:32:55 AM	4300
Chromium	9.3	0.24	0.60		mg/Kg	2	10/17/2012 11:32:55 AM	4300
Cobalt	5.4	0.14	0.60		mg/Kg	2	10/17/2012 11:32:55 AM	4300
Iron	16000	370	500		mg/Kg	500	10/17/2012 1:48:00 PM	4300
Lead	4.8	0.44	0.50		mg/Kg	2	10/17/2012 11:32:55 AM	4300
Manganese	510	0.42	2.0		mg/Kg	20	10/23/2012 7:24:33 PM	4300
Nickel	10	0.33	1.0		mg/Kg	2	10/17/2012 11:32:55 AM	4300
Selenium	ND	2.8	5.0		mg/Kg	2	10/23/2012 7:22:03 PM	4300
Silver	ND	0.071	0.50		mg/Kg	2	10/17/2012 11:32:55 AM	4300
Vanadium	11	0.11	5.0		mg/Kg	2	10/17/2012 11:32:55 AM	4300
Zinc	15	2.0	5.0		mg/Kg	2	10/17/2012 11:32:55 AM	4300

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	Page 9 of 0
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210279-012C

Client Sample ID: SWMU 1-3 (19.5-20')
Collection Date: 10/2/2012 5:25:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/23/2012 7:26:58 PM	4300
Arsenic	ND	1.3	5.0		mg/Kg	2	10/17/2012 11:38:08 AM	4300
Barium	400	0.61	1.0		mg/Kg	10	10/17/2012 2:00:57 PM	4300
Beryllium	0.83	0.019	0.30		mg/Kg	2	10/17/2012 11:38:08 AM	4300
Cadmium	ND	0.054	0.20		mg/Kg	2	10/17/2012 11:38:08 AM	4300
Chromium	10	0.24	0.60		mg/Kg	2	10/17/2012 11:38:08 AM	4300
Cobalt	5.7	0.14	0.60		mg/Kg	2	10/17/2012 11:38:08 AM	4300
Iron	16000	370	500		mg/Kg	500	10/17/2012 2:05:01 PM	4300
Lead	2.8	0.44	0.50		mg/Kg	2	10/17/2012 11:38:08 AM	4300
Manganese	610	0.42	2.0		mg/Kg	20	10/23/2012 7:36:44 PM	4300
Nickel	12	0.33	1.0		mg/Kg	2	10/17/2012 11:38:08 AM	4300
Selenium	ND	2.8	5.0		mg/Kg	2	10/23/2012 7:26:58 PM	4300
Silver	ND	0.071	0.50		mg/Kg	2	10/17/2012 11:38:08 AM	4300
Vanadium	10	0.11	5.0		mg/Kg	2	10/17/2012 11:38:08 AM	4300
Zinc	16	2.0	5.0		mg/Kg	2	10/17/2012 11:38:08 AM	4300

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/14/2012

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210332-001B

Client Sample ID: SWMU 1-4 (10-12')DUP
Collection Date: 10/3/2012 1:15:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 9:55:44 AM	4190
Arsenic	ND	3.1	12		mg/Kg	5	10/11/2012 9:55:44 AM	4190
Barium	870	3.0	5.0		mg/Kg	50	10/11/2012 11:42:40 AM	4190
Beryllium	0.49	0.046	0.75	J	mg/Kg	5	10/11/2012 9:55:44 AM	4190
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 9:55:44 AM	4190
Chromium	6.4	0.59	1.5		mg/Kg	5	10/11/2012 9:55:44 AM	4190
Cobalt	3.1	0.34	1.5		mg/Kg	5	10/11/2012 9:55:44 AM	4190
Iron	9200	370	500		mg/Kg	500	10/11/2012 11:45:05 AM	4190
Lead	4.4	1.1	1.2		mg/Kg	5	10/11/2012 9:55:44 AM	4190
Manganese	1400	1.1	5.0		mg/Kg	50	10/11/2012 11:42:40 AM	4190
Nickel	5.0	0.83	2.5		mg/Kg	5	10/11/2012 9:55:44 AM	4190
Selenium	ND	7.0	12		mg/Kg	5	10/11/2012 9:55:44 AM	4190
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 9:55:44 AM	4190
Vanadium	19	0.28	12		mg/Kg	5	10/11/2012 9:55:44 AM	4190
Zinc	10	5.0	12	J	mg/Kg	5	10/11/2012 9:55:44 AM	4190

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/14/2012

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210332-002C

Client Sample ID: SWMU 1-4 (17-18')
Collection Date: 10/3/2012 1:45:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 10:00:49 AM	4190
Arsenic	ND	3.1	12		mg/Kg	5	10/11/2012 10:00:49 AM	4190
Barium	370	3.0	5.0		mg/Kg	50	10/11/2012 11:48:01 AM	4190
Beryllium	0.57	0.046	0.75	J	mg/Kg	5	10/11/2012 10:00:49 AM	4190
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 10:00:49 AM	4190
Chromium	7.9	0.59	1.5		mg/Kg	5	10/11/2012 10:00:49 AM	4190
Cobalt	3.9	0.34	1.5		mg/Kg	5	10/11/2012 10:00:49 AM	4190
Iron	10000	370	500		mg/Kg	500	10/11/2012 11:50:28 AM	4190
Lead	2.7	1.1	1.2		mg/Kg	5	10/11/2012 10:00:49 AM	4190
Manganese	570	1.1	5.0		mg/Kg	50	10/11/2012 11:48:01 AM	4190
Nickel	6.0	0.83	2.5		mg/Kg	5	10/11/2012 10:00:49 AM	4190
Selenium	ND	7.0	12		mg/Kg	5	10/11/2012 10:00:49 AM	4190
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 10:00:49 AM	4190
Vanadium	17	0.28	12		mg/Kg	5	10/11/2012 10:00:49 AM	4190
Zinc	17	5.0	12		mg/Kg	5	10/11/2012 10:00:49 AM	4190

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/14/2012

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210332-003C

Client Sample ID: SWMU 1-4 (23-24')
Collection Date: 10/3/2012 2:00:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 10:16:19 AM	4190
Arsenic	ND	3.1	12		mg/Kg	5	10/11/2012 10:16:19 AM	4190
Barium	200	0.30	0.50		mg/Kg	5	10/11/2012 10:16:19 AM	4190
Beryllium	1.1	0.046	0.75		mg/Kg	5	10/11/2012 10:16:19 AM	4190
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 10:16:19 AM	4190
Chromium	14	0.59	1.5		mg/Kg	5	10/11/2012 10:16:19 AM	4190
Cobalt	5.9	0.34	1.5		mg/Kg	5	10/11/2012 10:16:19 AM	4190
Iron	18000	370	500		mg/Kg	500	10/11/2012 12:08:30 PM	4190
Lead	2.1	1.1	1.2		mg/Kg	5	10/11/2012 10:16:19 AM	4190
Manganese	340	0.21	1.0		mg/Kg	10	10/11/2012 12:06:07 PM	4190
Nickel	12	0.83	2.5		mg/Kg	5	10/11/2012 10:16:19 AM	4190
Selenium	ND	7.0	12		mg/Kg	5	10/11/2012 10:16:19 AM	4190
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 10:16:19 AM	4190
Vanadium	15	0.28	12		mg/Kg	5	10/11/2012 10:16:19 AM	4190
Zinc	26	5.0	12		mg/Kg	5	10/11/2012 10:16:19 AM	4190

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210332-006C

Client Sample ID: SWMU 1-4 (8-10')
Collection Date: 10/3/2012 1:00:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 10:21:28 AM	4190
Arsenic	ND	3.1	12		mg/Kg	5	10/11/2012 10:21:28 AM	4190
Barium	590	3.0	5.0		mg/Kg	50	10/11/2012 12:11:09 PM	4190
Beryllium	0.72	0.046	0.75	J	mg/Kg	5	10/11/2012 10:21:28 AM	4190
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 10:21:28 AM	4190
Chromium	7.9	0.59	1.5		mg/Kg	5	10/11/2012 10:21:28 AM	4190
Cobalt	4.0	0.34	1.5		mg/Kg	5	10/11/2012 10:21:28 AM	4190
Iron	11000	370	500		mg/Kg	500	10/11/2012 12:13:37 PM	4190
Lead	4.2	1.1	1.2		mg/Kg	5	10/11/2012 10:21:28 AM	4190
Manganese	720	1.1	5.0		mg/Kg	50	10/11/2012 12:11:09 PM	4190
Nickel	6.3	0.83	2.5		mg/Kg	5	10/11/2012 10:21:28 AM	4190
Selenium	ND	7.0	12		mg/Kg	5	10/11/2012 10:21:28 AM	4190
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 10:21:28 AM	4190
Vanadium	16	0.28	12		mg/Kg	5	10/11/2012 10:21:28 AM	4190
Zinc	16	5.0	12		mg/Kg	5	10/11/2012 10:21:28 AM	4190

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210332-007B

Client Sample ID: SWMU 1-4 (10-12')
Collection Date: 10/3/2012 1:15:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 10:26:23 AM	4190
Arsenic	ND	3.1	12		mg/Kg	5	10/11/2012 10:26:23 AM	4190
Barium	360	3.0	5.0		mg/Kg	50	10/11/2012 12:16:30 PM	4190
Beryllium	0.34	0.046	0.75	J	mg/Kg	5	10/11/2012 10:26:23 AM	4190
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 10:26:23 AM	4190
Chromium	3.7	0.59	1.5		mg/Kg	5	10/11/2012 10:26:23 AM	4190
Cobalt	2.0	0.34	1.5		mg/Kg	5	10/11/2012 10:26:23 AM	4190
Iron	5300	370	500		mg/Kg	500	10/11/2012 12:18:56 PM	4190
Lead	3.1	1.1	1.2		mg/Kg	5	10/11/2012 10:26:23 AM	4190
Manganese	550	1.1	5.0		mg/Kg	50	10/11/2012 12:16:30 PM	4190
Nickel	2.9	0.83	2.5		mg/Kg	5	10/11/2012 10:26:23 AM	4190
Selenium	ND	7.0	12		mg/Kg	5	10/11/2012 10:26:23 AM	4190
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 10:26:23 AM	4190
Vanadium	9.8	0.28	12	J	mg/Kg	5	10/11/2012 10:26:23 AM	4190
Zinc	7.8	5.0	12	J	mg/Kg	5	10/11/2012 10:26:23 AM	4190

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/14/2012

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210332-008B

Client Sample ID: SWMU 1-5 (26-27')
Collection Date: 10/3/2012 6:20:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	0.63	2.5		mg/Kg	1	10/11/2012 10:28:52 AM	4190
Arsenic	ND	0.63	2.5		mg/Kg	1	10/11/2012 10:28:52 AM	4190
Barium	230	0.30	0.50		mg/Kg	5	10/11/2012 10:31:19 AM	4190
Beryllium	0.30	0.0093	0.15		mg/Kg	1	10/11/2012 10:28:52 AM	4190
Cadmium	ND	0.027	0.10		mg/Kg	1	10/11/2012 10:28:52 AM	4190
Chromium	5.1	0.12	0.30		mg/Kg	1	10/11/2012 10:28:52 AM	4190
Cobalt	2.1	0.069	0.30		mg/Kg	1	10/11/2012 10:28:52 AM	4190
Iron	5900	370	500		mg/Kg	500	10/11/2012 12:21:48 PM	4190
Lead	0.57	0.22	0.25		mg/Kg	1	10/11/2012 10:28:52 AM	4190
Manganese	200	0.11	0.50		mg/Kg	5	10/11/2012 10:31:19 AM	4190
Nickel	3.5	0.17	0.50		mg/Kg	1	10/11/2012 10:28:52 AM	4190
Selenium	ND	1.4	2.5		mg/Kg	1	10/11/2012 10:28:52 AM	4190
Silver	ND	0.035	0.25		mg/Kg	1	10/11/2012 10:28:52 AM	4190
Vanadium	8.6	0.056	2.5		mg/Kg	1	10/11/2012 10:28:52 AM	4190
Zinc	8.5	1.0	2.5		mg/Kg	1	10/11/2012 10:28:52 AM	4190

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210332-009C

Client Sample ID: SWMU 1-5 (27-28')
Collection Date: 10/3/2012 6:30:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 2:31:31 PM	4190
Arsenic	ND	3.1	12		mg/Kg	5	10/11/2012 2:31:31 PM	4190
Barium	380	3.0	5.0		mg/Kg	50	10/11/2012 12:24:38 PM	4190
Beryllium	1.1	0.046	0.75		mg/Kg	5	10/11/2012 10:45:59 AM	4190
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 10:45:59 AM	4190
Chromium	15	0.59	1.5		mg/Kg	5	10/11/2012 10:45:59 AM	4190
Cobalt	7.8	0.34	1.5		mg/Kg	5	10/11/2012 10:45:59 AM	4190
Iron	17000	370	500		mg/Kg	500	10/11/2012 12:27:03 PM	4190
Lead	ND	1.1	1.2		mg/Kg	5	10/11/2012 10:45:59 AM	4190
Manganese	640	1.1	5.0		mg/Kg	50	10/11/2012 12:24:38 PM	4190
Nickel	12	0.83	2.5		mg/Kg	5	10/11/2012 10:45:59 AM	4190
Selenium	ND	7.0	12		mg/Kg	5	10/11/2012 10:45:59 AM	4190
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 10:45:59 AM	4190
Vanadium	22	0.28	12		mg/Kg	5	10/11/2012 10:45:59 AM	4190
Zinc	31	5.0	12		mg/Kg	5	10/11/2012 10:45:59 AM	4190

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210332-012C

Client Sample ID: SWMU 1-5 (10-12')
Collection Date: 10/3/2012 5:30:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 11:00:15 AM	4190
Arsenic	ND	3.1	12		mg/Kg	5	10/11/2012 11:00:15 AM	4190
Barium	610	3.0	5.0		mg/Kg	50	10/11/2012 12:31:20 PM	4190
Beryllium	0.57	0.046	0.75	J	mg/Kg	5	10/11/2012 11:00:15 AM	4190
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 11:00:15 AM	4190
Chromium	11	0.59	1.5		mg/Kg	5	10/11/2012 11:00:15 AM	4190
Cobalt	3.3	0.34	1.5		mg/Kg	5	10/11/2012 11:00:15 AM	4190
Iron	9200	370	500		mg/Kg	500	10/11/2012 12:44:37 PM	4190
Lead	3.9	1.1	1.2		mg/Kg	5	10/11/2012 11:00:15 AM	4190
Manganese	1300	1.1	5.0		mg/Kg	50	10/11/2012 12:31:20 PM	4190
Nickel	4.5	0.83	2.5		mg/Kg	5	10/11/2012 11:00:15 AM	4190
Selenium	ND	7.0	12		mg/Kg	5	10/11/2012 11:00:15 AM	4190
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 11:00:15 AM	4190
Vanadium	15	0.28	12		mg/Kg	5	10/11/2012 11:00:15 AM	4190
Zinc	12	5.0	12	J	mg/Kg	5	10/11/2012 11:00:15 AM	4190

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210332-013C

Client Sample ID: SWMU 1-5 (14-16')
Collection Date: 10/3/2012 5:45:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 11:05:28 AM	4190
Arsenic	ND	3.1	12		mg/Kg	5	10/11/2012 11:05:28 AM	4190
Barium	640	3.0	5.0		mg/Kg	50	10/11/2012 12:47:28 PM	4190
Beryllium	0.67	0.046	0.75	J	mg/Kg	5	10/11/2012 11:05:28 AM	4190
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 11:05:28 AM	4190
Chromium	11	0.59	1.5		mg/Kg	5	10/11/2012 11:05:28 AM	4190
Cobalt	3.9	0.34	1.5		mg/Kg	5	10/11/2012 11:05:28 AM	4190
Iron	11000	370	500		mg/Kg	500	10/11/2012 12:49:54 PM	4190
Lead	4.4	1.1	1.2		mg/Kg	5	10/11/2012 11:05:28 AM	4190
Manganese	1200	1.1	5.0		mg/Kg	50	10/11/2012 12:47:28 PM	4190
Nickel	5.9	0.83	2.5		mg/Kg	5	10/11/2012 11:05:28 AM	4190
Selenium	ND	7.0	12		mg/Kg	5	10/11/2012 11:05:28 AM	4190
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 11:05:28 AM	4190
Vanadium	19	0.28	12		mg/Kg	5	10/11/2012 11:05:28 AM	4190
Zinc	14	5.0	12		mg/Kg	5	10/11/2012 11:05:28 AM	4190

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210332-014C

Client Sample ID: SWMU 1-5 (16-18')
Collection Date: 10/3/2012 6:00:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 11:10:31 AM	4190
Arsenic	ND	3.1	12		mg/Kg	5	10/11/2012 11:10:31 AM	4190
Barium	690	3.0	5.0		mg/Kg	50	10/11/2012 12:52:45 PM	4190
Beryllium	0.54	0.046	0.75	J	mg/Kg	5	10/11/2012 11:10:31 AM	4190
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 11:10:31 AM	4190
Chromium	7.9	0.59	1.5		mg/Kg	5	10/11/2012 11:10:31 AM	4190
Cobalt	3.7	0.34	1.5		mg/Kg	5	10/11/2012 11:10:31 AM	4190
Iron	15000	370	500		mg/Kg	500	10/11/2012 12:55:08 PM	4190
Lead	7.7	1.1	1.2		mg/Kg	5	10/11/2012 11:10:31 AM	4190
Manganese	1400	1.1	5.0		mg/Kg	50	10/11/2012 12:52:45 PM	4190
Nickel	5.1	0.83	2.5		mg/Kg	5	10/11/2012 11:10:31 AM	4190
Selenium	ND	7.0	12		mg/Kg	5	10/11/2012 11:10:31 AM	4190
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 11:10:31 AM	4190
Vanadium	34	0.28	12		mg/Kg	5	10/11/2012 11:10:31 AM	4190
Zinc	12	5.0	12	J	mg/Kg	5	10/11/2012 11:10:31 AM	4190

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210332-015C

Client Sample ID: SWMU 1-5 (24-25')
Collection Date: 10/3/2012 6:10:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 2:22:14 PM	4190
Arsenic	ND	3.1	12		mg/Kg	5	10/11/2012 11:29:11 AM	4190
Barium	630	3.0	5.0		mg/Kg	50	10/11/2012 12:57:46 PM	4190
Beryllium	0.49	0.046	0.75	J	mg/Kg	5	10/11/2012 11:29:11 AM	4190
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 11:29:11 AM	4190
Chromium	7.7	0.59	1.5		mg/Kg	5	10/11/2012 11:29:11 AM	4190
Cobalt	3.5	0.34	1.5		mg/Kg	5	10/11/2012 11:29:11 AM	4190
Iron	8700	370	500		mg/Kg	500	10/11/2012 1:00:09 PM	4190
Lead	3.5	1.1	1.2		mg/Kg	5	10/11/2012 11:29:11 AM	4190
Manganese	1200	1.1	5.0		mg/Kg	50	10/11/2012 12:57:46 PM	4190
Nickel	4.9	0.83	2.5		mg/Kg	5	10/11/2012 11:29:11 AM	4190
Selenium	ND	7.0	12		mg/Kg	5	10/11/2012 11:29:11 AM	4190
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 11:29:11 AM	4190
Vanadium	14	0.28	12		mg/Kg	5	10/11/2012 11:29:11 AM	4190
Zinc	12	5.0	12	J	mg/Kg	5	10/11/2012 11:29:11 AM	4190

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210372-001B

Client Sample ID: SWMU 1-1 (2-4')
Collection Date: 10/5/2012 2:10:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 2:29:04 PM	4191
Arsenic	ND	3.1	12		mg/Kg	5	10/11/2012 2:29:04 PM	4191
Barium	450	0.61	1.0		mg/Kg	10	10/11/2012 3:14:12 PM	4191
Beryllium	0.63	0.046	0.75	J	mg/Kg	5	10/11/2012 2:29:04 PM	4191
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 2:29:04 PM	4191
Chromium	400	1.2	3.0		mg/Kg	10	10/11/2012 3:14:12 PM	4191
Cobalt	8.1	0.34	1.5		mg/Kg	5	10/11/2012 2:29:04 PM	4191
Iron	16000	370	500		mg/Kg	500	10/11/2012 3:19:11 PM	4191
Lead	80	1.1	1.2		mg/Kg	5	10/11/2012 2:29:04 PM	4191
Manganese	480	0.21	1.0		mg/Kg	10	10/11/2012 3:14:12 PM	4191
Nickel	15	0.83	2.5		mg/Kg	5	10/11/2012 2:29:04 PM	4191
Selenium	ND	7.0	12		mg/Kg	5	10/11/2012 2:29:04 PM	4191
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 2:29:04 PM	4191
Vanadium	20	0.28	12		mg/Kg	5	10/11/2012 2:29:04 PM	4191
Zinc	720	50	120		mg/Kg	50	10/11/2012 3:16:43 PM	4191

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210372-002A

Client Sample ID: SWMU 1-1 (10-12')
Collection Date: 10/5/2012 2:15:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 2:47:13 PM	4191
Arsenic	ND	3.1	12		mg/Kg	5	10/11/2012 2:47:13 PM	4191
Barium	300	0.61	1.0		mg/Kg	10	10/11/2012 3:21:49 PM	4191
Beryllium	1.2	0.046	0.75		mg/Kg	5	10/11/2012 2:47:13 PM	4191
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 2:47:13 PM	4191
Chromium	16	0.59	1.5		mg/Kg	5	10/11/2012 2:47:13 PM	4191
Cobalt	7.5	0.34	1.5		mg/Kg	5	10/11/2012 2:47:13 PM	4191
Iron	23000	370	500		mg/Kg	500	10/11/2012 3:29:57 PM	4191
Lead	3.3	1.1	1.2		mg/Kg	5	10/11/2012 2:47:13 PM	4191
Manganese	290	0.21	1.0		mg/Kg	10	10/11/2012 3:21:49 PM	4191
Nickel	15	0.83	2.5		mg/Kg	5	10/11/2012 2:47:13 PM	4191
Selenium	ND	7.0	12		mg/Kg	5	10/11/2012 2:47:13 PM	4191
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 2:47:13 PM	4191
Vanadium	25	0.28	12		mg/Kg	5	10/11/2012 2:47:13 PM	4191
Zinc	29	5.0	12		mg/Kg	5	10/11/2012 2:47:13 PM	4191

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210372-003B

Client Sample ID: SWMU 1-1 (13-14')
Collection Date: 10/5/2012 2:30:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	6.3	25		mg/Kg	10	10/11/2012 3:32:36 PM	4191
Arsenic	ND	6.3	25		mg/Kg	10	10/11/2012 3:32:36 PM	4191
Barium	630	3.0	5.0		mg/Kg	50	10/11/2012 3:39:36 PM	4191
Beryllium	0.55	0.093	1.5	J	mg/Kg	10	10/11/2012 3:32:36 PM	4191
Cadmium	ND	0.27	1.0		mg/Kg	10	10/11/2012 3:32:36 PM	4191
Chromium	6.8	1.2	3.0		mg/Kg	10	10/11/2012 3:32:36 PM	4191
Cobalt	8.0	0.69	3.0		mg/Kg	10	10/11/2012 3:32:36 PM	4191
Iron	8100	370	500		mg/Kg	500	10/11/2012 3:41:59 PM	4191
Lead	ND	2.2	2.5		mg/Kg	10	10/11/2012 3:32:36 PM	4191
Manganese	2800	11	50		mg/Kg	500	10/11/2012 3:41:59 PM	4191
Nickel	8.3	1.7	5.0		mg/Kg	10	10/11/2012 3:32:36 PM	4191
Selenium	ND	14	25		mg/Kg	10	10/11/2012 3:32:36 PM	4191
Silver	ND	0.35	2.5		mg/Kg	10	10/11/2012 3:32:36 PM	4191
Vanadium	30	0.57	25		mg/Kg	10	10/11/2012 3:32:36 PM	4191
Zinc	24	10	25	J	mg/Kg	10	10/11/2012 3:32:36 PM	4191

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210372-004C

Client Sample ID: SWMU 1-8 (16-18') DUP
Collection Date: 10/5/2012 11:10:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 3:44:52 PM	4191
Arsenic	ND	3.1	12		mg/Kg	5	10/11/2012 3:44:52 PM	4191
Barium	530	3.0	5.0		mg/Kg	50	10/11/2012 3:47:18 PM	4191
Beryllium	0.53	0.046	0.75	J	mg/Kg	5	10/11/2012 3:44:52 PM	4191
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 3:44:52 PM	4191
Chromium	6.6	0.59	1.5		mg/Kg	5	10/11/2012 3:44:52 PM	4191
Cobalt	3.5	0.34	1.5		mg/Kg	5	10/11/2012 3:44:52 PM	4191
Iron	9100	370	500		mg/Kg	500	10/11/2012 3:49:43 PM	4191
Lead	2.5	1.1	1.2		mg/Kg	5	10/11/2012 3:44:52 PM	4191
Manganese	660	1.1	5.0		mg/Kg	50	10/11/2012 3:47:18 PM	4191
Nickel	4.4	0.83	2.5		mg/Kg	5	10/11/2012 3:44:52 PM	4191
Selenium	ND	7.0	12		mg/Kg	5	10/11/2012 3:44:52 PM	4191
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 3:44:52 PM	4191
Vanadium	23	0.28	12		mg/Kg	5	10/11/2012 3:44:52 PM	4191
Zinc	12	5.0	12	J	mg/Kg	5	10/11/2012 3:44:52 PM	4191

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210372-005C

Client Sample ID: SWMU 1-8 (19-20')
Collection Date: 10/5/2012 11:25:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 3:52:34 PM	4191
Arsenic	ND	3.1	12		mg/Kg	5	10/11/2012 3:52:34 PM	4191
Barium	300	3.0	5.0		mg/Kg	50	10/11/2012 3:55:01 PM	4191
Beryllium	0.95	0.046	0.75		mg/Kg	5	10/11/2012 3:52:34 PM	4191
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 3:52:34 PM	4191
Chromium	14	0.59	1.5		mg/Kg	5	10/11/2012 3:52:34 PM	4191
Cobalt	8.2	0.34	1.5		mg/Kg	5	10/11/2012 3:52:34 PM	4191
Iron	19000	370	500		mg/Kg	500	10/11/2012 3:57:26 PM	4191
Lead	ND	1.1	1.2		mg/Kg	5	10/11/2012 3:52:34 PM	4191
Manganese	300	1.1	5.0		mg/Kg	50	10/11/2012 3:55:01 PM	4191
Nickel	12	0.83	2.5		mg/Kg	5	10/11/2012 3:52:34 PM	4191
Selenium	ND	7.0	12		mg/Kg	5	10/11/2012 3:52:34 PM	4191
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 3:52:34 PM	4191
Vanadium	26	0.28	12		mg/Kg	5	10/11/2012 3:52:34 PM	4191
Zinc	29	5.0	12		mg/Kg	5	10/11/2012 3:52:34 PM	4191

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	Page 5 of 0
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/14/2012

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210372-006C

Client Sample ID: SWMU 1-8 (4-6')
Collection Date: 10/5/2012 10:20:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 4:05:56 PM	4191
Arsenic	ND	3.1	12		mg/Kg	5	10/11/2012 4:05:56 PM	4191
Barium	540	3.0	5.0		mg/Kg	50	10/11/2012 4:10:00 PM	4191
Beryllium	0.49	0.046	0.75	J	mg/Kg	5	10/11/2012 4:05:56 PM	4191
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 4:05:56 PM	4191
Chromium	5.3	0.59	1.5		mg/Kg	5	10/11/2012 4:05:56 PM	4191
Cobalt	3.0	0.34	1.5		mg/Kg	5	10/11/2012 4:05:56 PM	4191
Iron	7900	370	500		mg/Kg	500	10/11/2012 4:15:16 PM	4191
Lead	3.4	1.1	1.2		mg/Kg	5	10/11/2012 4:05:56 PM	4191
Manganese	390	1.1	5.0		mg/Kg	50	10/11/2012 4:10:00 PM	4191
Nickel	4.5	0.83	2.5		mg/Kg	5	10/11/2012 4:05:56 PM	4191
Selenium	ND	7.0	12		mg/Kg	5	10/11/2012 4:05:56 PM	4191
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 4:05:56 PM	4191
Vanadium	19	0.28	12		mg/Kg	5	10/11/2012 4:05:56 PM	4191
Zinc	10	5.0	12	J	mg/Kg	5	10/11/2012 4:05:56 PM	4191

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210372-007B

Client Sample ID: SWMU 1-8 (10-12')
Collection Date: 10/5/2012 10:30:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 4:18:09 PM	4191
Arsenic	ND	3.1	12		mg/Kg	5	10/11/2012 4:18:09 PM	4191
Barium	620	3.0	5.0		mg/Kg	50	10/11/2012 4:20:33 PM	4191
Beryllium	0.67	0.046	0.75	J	mg/Kg	5	10/11/2012 4:18:09 PM	4191
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 4:18:09 PM	4191
Chromium	21	0.59	1.5		mg/Kg	5	10/11/2012 4:18:09 PM	4191
Cobalt	6.6	0.34	1.5		mg/Kg	5	10/11/2012 4:18:09 PM	4191
Iron	15000	370	500		mg/Kg	500	10/11/2012 4:22:59 PM	4191
Lead	8.2	1.1	1.2		mg/Kg	5	10/11/2012 4:18:09 PM	4191
Manganese	810	1.1	5.0		mg/Kg	50	10/11/2012 4:20:33 PM	4191
Nickel	16	0.83	2.5		mg/Kg	5	10/11/2012 4:18:09 PM	4191
Selenium	ND	7.0	12		mg/Kg	5	10/11/2012 4:18:09 PM	4191
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 4:18:09 PM	4191
Vanadium	26	0.28	12		mg/Kg	5	10/11/2012 4:18:09 PM	4191
Zinc	60	5.0	12		mg/Kg	5	10/11/2012 4:18:09 PM	4191

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210372-008D

Client Sample ID: SWMU 1-8 (12-14')
Collection Date: 10/5/2012 10:40:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 4:25:38 PM	4191
Arsenic	ND	3.1	12		mg/Kg	5	10/11/2012 4:25:38 PM	4191
Barium	370	3.0	5.0		mg/Kg	50	10/11/2012 4:28:05 PM	4191
Beryllium	0.52	0.046	0.75	J	mg/Kg	5	10/11/2012 4:25:38 PM	4191
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 4:25:38 PM	4191
Chromium	10	0.59	1.5		mg/Kg	5	10/11/2012 4:25:38 PM	4191
Cobalt	4.1	0.34	1.5		mg/Kg	5	10/11/2012 4:25:38 PM	4191
Iron	8000	370	500		mg/Kg	500	10/11/2012 4:30:34 PM	4191
Lead	2.0	1.1	1.2		mg/Kg	5	10/11/2012 4:25:38 PM	4191
Manganese	540	1.1	5.0		mg/Kg	50	10/11/2012 4:28:05 PM	4191
Nickel	6.8	0.83	2.5		mg/Kg	5	10/11/2012 4:25:38 PM	4191
Selenium	ND	7.0	12		mg/Kg	5	10/11/2012 4:25:38 PM	4191
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 4:25:38 PM	4191
Vanadium	15	0.28	12		mg/Kg	5	10/11/2012 4:25:38 PM	4191
Zinc	18	5.0	12		mg/Kg	5	10/11/2012 4:25:38 PM	4191

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210372-009C

Client Sample ID: SWMU 1-8 (16-18')
Collection Date: 10/5/2012 11:10:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 4:33:26 PM	4191
Arsenic	ND	3.1	12		mg/Kg	5	10/11/2012 4:33:26 PM	4191
Barium	550	3.0	5.0		mg/Kg	50	10/11/2012 4:43:28 PM	4191
Beryllium	0.59	0.046	0.75	J	mg/Kg	5	10/11/2012 4:33:26 PM	4191
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 4:33:26 PM	4191
Chromium	6.9	0.59	1.5		mg/Kg	5	10/11/2012 4:33:26 PM	4191
Cobalt	4.4	0.34	1.5		mg/Kg	5	10/11/2012 4:33:26 PM	4191
Iron	11000	370	500		mg/Kg	500	10/11/2012 4:45:54 PM	4191
Lead	2.8	1.1	1.2		mg/Kg	5	10/11/2012 4:33:26 PM	4191
Manganese	740	1.1	5.0		mg/Kg	50	10/11/2012 4:43:28 PM	4191
Nickel	6.1	0.83	2.5		mg/Kg	5	10/11/2012 4:33:26 PM	4191
Selenium	ND	7.0	12		mg/Kg	5	10/11/2012 4:33:26 PM	4191
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 4:33:26 PM	4191
Vanadium	16	0.28	12		mg/Kg	5	10/11/2012 4:33:26 PM	4191
Zinc	14	5.0	12		mg/Kg	5	10/11/2012 4:33:26 PM	4191

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210372-015C

Client Sample ID: SWMU 1-7 (16-18")
Collection Date: 10/4/2012 2:40:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 4:48:45 PM	4191
Arsenic	3.2	3.1	12	J	mg/Kg	5	10/11/2012 4:48:45 PM	4191
Barium	330	3.0	5.0		mg/Kg	50	10/11/2012 4:51:11 PM	4191
Beryllium	1.1	0.046	0.75		mg/Kg	5	10/11/2012 4:48:45 PM	4191
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 4:48:45 PM	4191
Chromium	15	0.59	1.5		mg/Kg	5	10/11/2012 4:48:45 PM	4191
Cobalt	6.4	0.34	1.5		mg/Kg	5	10/11/2012 4:48:45 PM	4191
Iron	22000	370	500		mg/Kg	500	10/11/2012 4:53:35 PM	4191
Lead	1.7	1.1	1.2		mg/Kg	5	10/11/2012 4:48:45 PM	4191
Manganese	510	1.1	5.0		mg/Kg	50	10/11/2012 4:51:11 PM	4191
Nickel	13	0.83	2.5		mg/Kg	5	10/11/2012 4:48:45 PM	4191
Selenium	ND	7.0	12		mg/Kg	5	10/11/2012 4:48:45 PM	4191
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 4:48:45 PM	4191
Vanadium	28	0.28	12		mg/Kg	5	10/11/2012 4:48:45 PM	4191
Zinc	25	5.0	12		mg/Kg	5	10/11/2012 4:48:45 PM	4191

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210372-016C

Client Sample ID: SWMU 1-6 (10-11')
Collection Date: 10/4/2012 11:45:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 4:56:13 PM	4191
Arsenic	ND	3.1	12		mg/Kg	5	10/11/2012 4:56:13 PM	4191
Barium	380	3.0	5.0		mg/Kg	50	10/11/2012 4:58:37 PM	4191
Beryllium	0.56	0.046	0.75	J	mg/Kg	5	10/11/2012 4:56:13 PM	4191
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 4:56:13 PM	4191
Chromium	7.2	0.59	1.5		mg/Kg	5	10/11/2012 4:56:13 PM	4191
Cobalt	3.8	0.34	1.5		mg/Kg	5	10/11/2012 4:56:13 PM	4191
Iron	11000	370	500		mg/Kg	500	10/11/2012 5:01:02 PM	4191
Lead	3.6	1.1	1.2		mg/Kg	5	10/11/2012 4:56:13 PM	4191
Manganese	750	1.1	5.0		mg/Kg	50	10/11/2012 4:58:37 PM	4191
Nickel	5.5	0.83	2.5		mg/Kg	5	10/11/2012 4:56:13 PM	4191
Selenium	ND	7.0	12		mg/Kg	5	10/11/2012 4:56:13 PM	4191
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 4:56:13 PM	4191
Vanadium	16	0.28	12		mg/Kg	5	10/11/2012 4:56:13 PM	4191
Zinc	13	5.0	12		mg/Kg	5	10/11/2012 4:56:13 PM	4191

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210372-017C

Client Sample ID: SWMU 1-6 (11-12')
Collection Date: 10/4/2012 11:55:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 5:03:56 PM	4191
Arsenic	ND	3.1	12		mg/Kg	5	10/11/2012 5:03:56 PM	4191
Barium	700	3.0	5.0		mg/Kg	50	10/11/2012 5:12:21 PM	4191
Beryllium	0.96	0.046	0.75		mg/Kg	5	10/11/2012 5:03:56 PM	4191
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 5:03:56 PM	4191
Chromium	14	0.59	1.5		mg/Kg	5	10/11/2012 5:03:56 PM	4191
Cobalt	6.2	0.34	1.5		mg/Kg	5	10/11/2012 5:03:56 PM	4191
Iron	18000	370	500		mg/Kg	500	10/11/2012 5:16:24 PM	4191
Lead	ND	1.1	1.2		mg/Kg	5	10/11/2012 5:03:56 PM	4191
Manganese	480	1.1	5.0		mg/Kg	50	10/11/2012 5:12:21 PM	4191
Nickel	12	0.83	2.5		mg/Kg	5	10/11/2012 5:03:56 PM	4191
Selenium	ND	7.0	12		mg/Kg	5	10/11/2012 5:03:56 PM	4191
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 5:03:56 PM	4191
Vanadium	16	0.28	12		mg/Kg	5	10/11/2012 5:03:56 PM	4191
Zinc	25	5.0	12		mg/Kg	5	10/11/2012 5:03:56 PM	4191

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210372-018C

Client Sample ID: SWMU 1-7 (12-14')
Collection Date: 10/4/2012 1:55:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 5:21:56 PM	4191
Arsenic	ND	3.1	12		mg/Kg	5	10/11/2012 5:21:56 PM	4191
Barium	87	0.30	0.50		mg/Kg	5	10/11/2012 5:21:56 PM	4191
Beryllium	1.1	0.046	0.75		mg/Kg	5	10/11/2012 5:21:56 PM	4191
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 5:21:56 PM	4191
Chromium	12	0.59	1.5		mg/Kg	5	10/11/2012 5:21:56 PM	4191
Cobalt	5.4	0.34	1.5		mg/Kg	5	10/11/2012 5:21:56 PM	4191
Iron	16000	370	500		mg/Kg	500	10/11/2012 5:26:48 PM	4191
Lead	4.0	1.1	1.2		mg/Kg	5	10/11/2012 5:21:56 PM	4191
Manganese	360	1.1	5.0		mg/Kg	50	10/11/2012 5:24:24 PM	4191
Nickel	9.3	0.83	2.5		mg/Kg	5	10/11/2012 5:21:56 PM	4191
Selenium	ND	7.0	12		mg/Kg	5	10/11/2012 5:21:56 PM	4191
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 5:21:56 PM	4191
Vanadium	20	0.28	12		mg/Kg	5	10/11/2012 5:21:56 PM	4191
Zinc	18	5.0	12		mg/Kg	5	10/11/2012 5:21:56 PM	4191

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210372-019C

Client Sample ID: SWMU 1-7 (14-16')
Collection Date: 10/4/2012 2:15:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 5:29:25 PM	4191
Arsenic	ND	3.1	12		mg/Kg	5	10/11/2012 5:29:25 PM	4191
Barium	290	3.0	5.0		mg/Kg	50	10/11/2012 5:31:52 PM	4191
Beryllium	0.95	0.046	0.75		mg/Kg	5	10/11/2012 5:29:25 PM	4191
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 5:29:25 PM	4191
Chromium	11	0.59	1.5		mg/Kg	5	10/11/2012 5:29:25 PM	4191
Cobalt	6.0	0.34	1.5		mg/Kg	5	10/11/2012 5:29:25 PM	4191
Iron	15000	370	500		mg/Kg	500	10/11/2012 5:34:18 PM	4191
Lead	3.3	1.1	1.2		mg/Kg	5	10/11/2012 5:29:25 PM	4191
Manganese	790	1.1	5.0		mg/Kg	50	10/11/2012 5:31:52 PM	4191
Nickel	9.7	0.83	2.5		mg/Kg	5	10/11/2012 5:29:25 PM	4191
Selenium	ND	7.0	12		mg/Kg	5	10/11/2012 5:29:25 PM	4191
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 5:29:25 PM	4191
Vanadium	16	0.28	12		mg/Kg	5	10/11/2012 5:29:25 PM	4191
Zinc	18	5.0	12		mg/Kg	5	10/11/2012 5:29:25 PM	4191

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210372-020B

Client Sample ID: SWMU 1-6 (2-4')
Collection Date: 10/4/2012 10:55:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	6.3	25		mg/Kg	10	10/15/2012 10:16:58 AM	4191
Arsenic	ND	6.3	25		mg/Kg	10	10/15/2012 10:16:58 AM	4191
Barium	660	3.0	5.0		mg/Kg	50	10/11/2012 5:39:21 PM	4191
Beryllium	0.49	0.093	1.5	J	mg/Kg	10	10/15/2012 10:16:58 AM	4191
Cadmium	ND	0.27	1.0		mg/Kg	10	10/15/2012 10:16:58 AM	4191
Chromium	6.1	1.2	3.0		mg/Kg	10	10/15/2012 10:16:58 AM	4191
Cobalt	3.5	0.69	3.0		mg/Kg	10	10/15/2012 10:16:58 AM	4191
Iron	9600	370	500		mg/Kg	500	10/11/2012 5:49:22 PM	4191
Lead	5.4	2.2	2.5		mg/Kg	10	10/15/2012 10:16:58 AM	4191
Manganese	1000	1.1	5.0		mg/Kg	50	10/11/2012 5:39:21 PM	4191
Nickel	4.5	1.7	5.0	J	mg/Kg	10	10/15/2012 10:16:58 AM	4191
Selenium	ND	14	25		mg/Kg	10	10/15/2012 10:35:25 AM	4191
Silver	ND	0.35	2.5		mg/Kg	10	10/15/2012 10:16:58 AM	4191
Vanadium	18	0.57	25	J	mg/Kg	10	10/15/2012 10:16:58 AM	4191
Zinc	13	10	25	J	mg/Kg	10	10/15/2012 10:16:58 AM	4191

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	Page 15 of 0
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210372-021B

Client Sample ID: SWMU 1-6 (2-4') DUP
Collection Date: 10/4/2012 10:55:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 5:52:15 PM	4191
Arsenic	ND	3.1	12		mg/Kg	5	10/15/2012 10:19:16 AM	4191
Barium	930	3.0	5.0		mg/Kg	50	10/11/2012 5:57:34 PM	4191
Beryllium	0.51	0.046	0.75	J	mg/Kg	5	10/11/2012 5:52:15 PM	4191
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 5:52:15 PM	4191
Chromium	7.0	0.59	1.5		mg/Kg	5	10/15/2012 10:19:16 AM	4191
Cobalt	3.9	0.34	1.5		mg/Kg	5	10/11/2012 5:52:15 PM	4191
Iron	10000	370	500		mg/Kg	500	10/11/2012 6:00:01 PM	4191
Lead	5.0	1.1	1.2		mg/Kg	5	10/11/2012 5:52:15 PM	4191
Manganese	830	1.1	5.0		mg/Kg	50	10/11/2012 5:57:34 PM	4191
Nickel	5.2	0.83	2.5		mg/Kg	5	10/11/2012 5:52:15 PM	4191
Selenium	ND	7.0	12		mg/Kg	5	10/15/2012 10:37:40 AM	4191
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 5:52:15 PM	4191
Vanadium	24	0.28	12		mg/Kg	5	10/11/2012 5:52:15 PM	4191
Zinc	13	5.0	12		mg/Kg	5	10/15/2012 10:19:16 AM	4191

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210372-022C

Client Sample ID: SWMU 1-6 (4-6)
Collection Date: 10/4/2012 11:15:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 6:02:53 PM	4191
Arsenic	ND	3.1	12		mg/Kg	5	10/15/2012 10:21:33 AM	4191
Barium	870	3.0	5.0		mg/Kg	50	10/11/2012 6:05:17 PM	4191
Beryllium	0.44	0.046	0.75	J	mg/Kg	5	10/11/2012 6:02:53 PM	4191
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 6:02:53 PM	4191
Chromium	7.0	0.59	1.5		mg/Kg	5	10/15/2012 10:21:33 AM	4191
Cobalt	5.7	0.34	1.5		mg/Kg	5	10/11/2012 6:02:53 PM	4191
Iron	9500	370	500		mg/Kg	500	10/11/2012 6:07:44 PM	4191
Lead	5.6	1.1	1.2		mg/Kg	5	10/11/2012 6:02:53 PM	4191
Manganese	1100	1.1	5.0		mg/Kg	50	10/11/2012 6:05:17 PM	4191
Nickel	5.2	0.83	2.5		mg/Kg	5	10/11/2012 6:02:53 PM	4191
Selenium	ND	7.0	12		mg/Kg	5	10/15/2012 10:39:58 AM	4191
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 6:02:53 PM	4191
Vanadium	16	0.28	12		mg/Kg	5	10/11/2012 6:02:53 PM	4191
Zinc	15	5.0	12		mg/Kg	5	10/15/2012 10:21:33 AM	4191

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210372-023C

Client Sample ID: SWMU 1-6 (7.5-8")
Collection Date: 10/4/2012 11:30:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/11/2012 6:10:37 PM	4191
Arsenic	4.6	3.1	12	J	mg/Kg	5	10/15/2012 10:23:51 AM	4191
Barium	110	0.30	0.50		mg/Kg	5	10/11/2012 6:10:37 PM	4191
Beryllium	0.83	0.046	0.75		mg/Kg	5	10/11/2012 6:10:37 PM	4191
Cadmium	ND	0.14	0.50		mg/Kg	5	10/11/2012 6:10:37 PM	4191
Chromium	8.3	0.59	1.5		mg/Kg	5	10/15/2012 10:23:51 AM	4191
Cobalt	4.1	0.34	1.5		mg/Kg	5	10/11/2012 6:10:37 PM	4191
Iron	13000	370	500		mg/Kg	500	10/11/2012 6:15:26 PM	4191
Lead	4.1	1.1	1.2		mg/Kg	5	10/11/2012 6:10:37 PM	4191
Manganese	390	1.1	5.0		mg/Kg	50	10/11/2012 6:13:03 PM	4191
Nickel	6.7	0.83	2.5		mg/Kg	5	10/11/2012 6:10:37 PM	4191
Selenium	ND	7.0	12		mg/Kg	5	10/15/2012 10:42:12 AM	4191
Silver	ND	0.18	1.2		mg/Kg	5	10/11/2012 6:10:37 PM	4191
Vanadium	14	0.28	12		mg/Kg	5	10/11/2012 6:10:37 PM	4191
Zinc	14	5.0	12		mg/Kg	5	10/15/2012 10:23:51 AM	4191

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210521-001C

Client Sample ID: SWMU 1-24 (0-0.5')
Collection Date: 10/8/2012 4:05:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/16/2012 3:30:30 PM	4298
Arsenic	ND	3.1	12		mg/Kg	5	10/16/2012 3:30:30 PM	4298
Barium	220	0.61	1.0		mg/Kg	10	10/16/2012 3:55:33 PM	4298
Beryllium	0.68	0.046	0.75	J	mg/Kg	5	10/16/2012 3:30:30 PM	4298
Cadmium	ND	0.14	0.50		mg/Kg	5	10/16/2012 3:30:30 PM	4298
Chromium	9.5	0.59	1.5		mg/Kg	5	10/16/2012 3:30:30 PM	4298
Cobalt	5.1	0.34	1.5		mg/Kg	5	10/16/2012 3:30:30 PM	4298
Iron	20000	370	500		mg/Kg	500	10/16/2012 3:52:52 PM	4298
Lead	9.3	1.1	1.2		mg/Kg	5	10/16/2012 3:30:30 PM	4298
Manganese	520	1.1	5.0		mg/Kg	50	10/16/2012 3:50:28 PM	4298
Nickel	9.0	0.83	2.5		mg/Kg	5	10/16/2012 3:30:30 PM	4298
Selenium	ND	7.0	12		mg/Kg	5	10/16/2012 3:30:30 PM	4298
Silver	ND	0.18	1.2		mg/Kg	5	10/16/2012 3:30:30 PM	4298
Vanadium	24	0.28	12		mg/Kg	5	10/16/2012 3:30:30 PM	4298
Zinc	34	5.0	12		mg/Kg	5	10/16/2012 3:30:30 PM	4298

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210521-002C

Client Sample ID: SWMU 1-24 (0-0.5') DUP
Collection Date: 10/8/2012 4:05:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: JLF		
Antimony	ND	3.1	12		mg/Kg	5	10/16/2012 4:00:28 PM	4298
Arsenic	ND	3.1	12		mg/Kg	5	10/16/2012 4:00:28 PM	4298
Barium	180	0.30	0.50		mg/Kg	5	10/16/2012 4:00:28 PM	4298
Beryllium	0.57	0.046	0.75	J	mg/Kg	5	10/16/2012 4:00:28 PM	4298
Cadmium	ND	0.14	0.50		mg/Kg	5	10/16/2012 4:00:28 PM	4298
Chromium	9.6	0.59	1.5		mg/Kg	5	10/16/2012 4:00:28 PM	4298
Cobalt	4.4	0.34	1.5		mg/Kg	5	10/16/2012 4:00:28 PM	4298
Iron	10000	370	500		mg/Kg	500	10/16/2012 4:05:17 PM	4298
Lead	7.8	1.1	1.2		mg/Kg	5	10/16/2012 4:00:28 PM	4298
Manganese	290	1.1	5.0		mg/Kg	50	10/16/2012 4:02:52 PM	4298
Nickel	8.5	0.83	2.5		mg/Kg	5	10/16/2012 4:00:28 PM	4298
Selenium	ND	7.0	12		mg/Kg	5	10/16/2012 4:00:28 PM	4298
Silver	ND	0.18	1.2		mg/Kg	5	10/16/2012 4:00:28 PM	4298
Vanadium	18	0.28	12		mg/Kg	5	10/16/2012 4:00:28 PM	4298
Zinc	29	5.0	12		mg/Kg	5	10/16/2012 4:00:28 PM	4298

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210521-003C

Client Sample ID: SWMU 1-24 (1.5-2')
Collection Date: 10/8/2012 4:15:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/16/2012 4:23:04 PM	4298
Arsenic	ND	3.1	12		mg/Kg	5	10/16/2012 4:23:04 PM	4298
Barium	330	3.0	5.0		mg/Kg	50	10/16/2012 4:25:31 PM	4298
Beryllium	0.86	0.046	0.75		mg/Kg	5	10/16/2012 4:23:04 PM	4298
Cadmium	ND	0.14	0.50		mg/Kg	5	10/16/2012 4:23:04 PM	4298
Chromium	7.4	0.59	1.5		mg/Kg	5	10/16/2012 4:23:04 PM	4298
Cobalt	4.4	0.34	1.5		mg/Kg	5	10/16/2012 4:23:04 PM	4298
Iron	12000	370	500		mg/Kg	500	10/16/2012 4:27:56 PM	4298
Lead	4.4	1.1	1.2		mg/Kg	5	10/16/2012 4:23:04 PM	4298
Manganese	410	1.1	5.0		mg/Kg	50	10/16/2012 4:25:31 PM	4298
Nickel	7.0	0.83	2.5		mg/Kg	5	10/16/2012 4:23:04 PM	4298
Selenium	ND	7.0	12		mg/Kg	5	10/16/2012 4:23:04 PM	4298
Silver	ND	0.18	1.2		mg/Kg	5	10/16/2012 4:23:04 PM	4298
Vanadium	14	0.28	12		mg/Kg	5	10/16/2012 4:23:04 PM	4298
Zinc	13	5.0	12		mg/Kg	5	10/16/2012 4:23:04 PM	4298

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210521-004C

Client Sample ID: SWMU 1-24 (10.5-11.5')
Collection Date: 10/8/2012 4:30:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: JLF		
Antimony	ND	3.1	12		mg/Kg	5	10/16/2012 4:30:35 PM	4298
Arsenic	ND	3.1	12		mg/Kg	5	10/16/2012 4:30:35 PM	4298
Barium	360	3.0	5.0		mg/Kg	50	10/16/2012 4:33:01 PM	4298
Beryllium	0.75	0.046	0.75	J	mg/Kg	5	10/16/2012 4:30:35 PM	4298
Cadmium	ND	0.14	0.50		mg/Kg	5	10/16/2012 4:30:35 PM	4298
Chromium	4.9	0.59	1.5		mg/Kg	5	10/16/2012 4:30:35 PM	4298
Cobalt	3.9	0.34	1.5		mg/Kg	5	10/16/2012 4:30:35 PM	4298
Iron	10000	370	500		mg/Kg	500	10/16/2012 4:35:27 PM	4298
Lead	5.2	1.1	1.2		mg/Kg	5	10/16/2012 4:30:35 PM	4298
Manganese	710	1.1	5.0		mg/Kg	50	10/16/2012 4:33:01 PM	4298
Nickel	5.6	0.83	2.5		mg/Kg	5	10/16/2012 4:30:35 PM	4298
Selenium	ND	7.0	12		mg/Kg	5	10/16/2012 4:30:35 PM	4298
Silver	ND	0.18	1.2		mg/Kg	5	10/16/2012 4:30:35 PM	4298
Vanadium	13	0.28	12		mg/Kg	5	10/16/2012 4:30:35 PM	4298
Zinc	11	5.0	12	J	mg/Kg	5	10/16/2012 4:30:35 PM	4298

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210521-005C

Client Sample ID: SWMU 1-24 (16-18')
Collection Date: 10/8/2012 4:40:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/16/2012 4:38:05 PM	4298
Arsenic	ND	3.1	12		mg/Kg	5	10/16/2012 4:38:05 PM	4298
Barium	480	3.0	5.0		mg/Kg	50	10/16/2012 4:40:30 PM	4298
Beryllium	0.57	0.046	0.75	J	mg/Kg	5	10/16/2012 4:38:05 PM	4298
Cadmium	ND	0.14	0.50		mg/Kg	5	10/16/2012 4:38:05 PM	4298
Chromium	5.9	0.59	1.5		mg/Kg	5	10/16/2012 4:38:05 PM	4298
Cobalt	3.0	0.34	1.5		mg/Kg	5	10/16/2012 4:38:05 PM	4298
Iron	9500	370	500		mg/Kg	500	10/16/2012 4:44:35 PM	4298
Lead	4.9	1.1	1.2		mg/Kg	5	10/16/2012 4:38:05 PM	4298
Manganese	790	1.1	5.0		mg/Kg	50	10/16/2012 4:40:30 PM	4298
Nickel	4.7	0.83	2.5		mg/Kg	5	10/16/2012 4:38:05 PM	4298
Selenium	ND	7.0	12		mg/Kg	5	10/16/2012 4:38:05 PM	4298
Silver	ND	0.18	1.2		mg/Kg	5	10/16/2012 4:38:05 PM	4298
Vanadium	16	0.28	12		mg/Kg	5	10/16/2012 4:38:05 PM	4298
Zinc	11	5.0	12	J	mg/Kg	5	10/16/2012 4:38:05 PM	4298

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/12/2012

CLIENT: Western Refining Company
 Project: SWMU NO.1
 Lab ID: 1210521-006C

Client Sample ID: SWMU 1-24 (24-26')
 Collection Date: 10/8/2012 4:55:00 PM
 Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/16/2012 4:47:26 PM	4298
Arsenic	ND	3.1	12		mg/Kg	5	10/16/2012 4:47:26 PM	4298
Barium	160	0.30	0.50		mg/Kg	5	10/16/2012 4:47:26 PM	4298
Beryllium	0.89	0.046	0.75		mg/Kg	5	10/16/2012 4:47:26 PM	4298
Cadmium	ND	0.14	0.50		mg/Kg	5	10/16/2012 4:47:26 PM	4298
Chromium	9.9	0.59	1.5		mg/Kg	5	10/16/2012 4:47:26 PM	4298
Cobalt	4.8	0.34	1.5		mg/Kg	5	10/16/2012 4:47:26 PM	4298
Iron	13000	370	500		mg/Kg	500	10/16/2012 5:00:50 PM	4298
Lead	3.4	1.1	1.2		mg/Kg	5	10/16/2012 4:47:26 PM	4298
Manganese	640	1.1	5.0		mg/Kg	50	10/16/2012 4:58:26 PM	4298
Nickel	7.7	0.83	2.5		mg/Kg	5	10/16/2012 4:47:26 PM	4298
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 9:41:06 AM	4298
Silver	ND	0.18	1.2		mg/Kg	5	10/16/2012 4:47:26 PM	4298
Vanadium	23	0.28	12		mg/Kg	5	10/16/2012 4:47:26 PM	4298
Zinc	17	5.0	12		mg/Kg	5	10/16/2012 4:47:26 PM	4298

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/12/2012

CLIENT: Western Refining Company
 Project: SWMU NO.1
 Lab ID: 1210521-007C

Client Sample ID: SWMU 1-24 (32-34')
 Collection Date: 10/8/2012 5:05:00 PM
 Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/16/2012 5:03:26 PM	4298
Arsenic	ND	3.1	12		mg/Kg	5	10/16/2012 5:03:26 PM	4298
Barium	220	0.30	0.50		mg/Kg	5	10/16/2012 5:03:26 PM	4298
Beryllium	0.64	0.046	0.75	J	mg/Kg	5	10/16/2012 5:03:26 PM	4298
Cadmium	ND	0.14	0.50		mg/Kg	5	10/16/2012 5:03:26 PM	4298
Chromium	8.1	0.59	1.5		mg/Kg	5	10/16/2012 5:03:26 PM	4298
Cobalt	3.9	0.34	1.5		mg/Kg	5	10/16/2012 5:03:26 PM	4298
Iron	24000	370	500		mg/Kg	500	10/16/2012 5:08:16 PM	4298
Lead	8.6	1.1	1.2		mg/Kg	5	10/16/2012 5:03:26 PM	4298
Manganese	730	1.1	5.0		mg/Kg	50	10/16/2012 5:05:52 PM	4298
Nickel	5.0	0.83	2.5		mg/Kg	5	10/16/2012 5:03:26 PM	4298
Selenium	ND	7.0	12		mg/Kg	5	10/23/2012 6:35:11 PM	4298
Silver	ND	0.18	1.2		mg/Kg	5	10/16/2012 5:03:26 PM	4298
Vanadium	53	0.28	12		mg/Kg	5	10/16/2012 5:03:26 PM	4298
Zinc	12	5.0	12	J	mg/Kg	5	10/16/2012 5:03:26 PM	4298

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210653-001C

Client Sample ID: SWMU 1-37 (0-0.5')
Collection Date: 10/10/2012 5:00:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 9:46:22 AM	4440
Arsenic	ND	1.3	5.0		mg/Kg	2	10/25/2012 9:46:22 AM	4440
Barium	350	0.61	1.0		mg/Kg	10	10/25/2012 12:29:16 PM	4440
Beryllium	0.85	0.019	0.30		mg/Kg	2	10/25/2012 9:46:22 AM	4440
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 9:46:22 AM	4440
Chromium	17	0.24	0.60		mg/Kg	2	10/25/2012 9:46:22 AM	4440
Cobalt	4.7	0.14	0.60		mg/Kg	2	10/25/2012 9:46:22 AM	4440
Iron	18000	370	500		mg/Kg	500	11/2/2012 6:21:33 AM	4440
Lead	2.8	0.44	0.50		mg/Kg	2	10/25/2012 9:46:22 AM	4440
Manganese	610	0.42	2.0		mg/Kg	20	10/25/2012 2:24:36 PM	4440
Nickel	8.4	0.33	1.0		mg/Kg	2	10/25/2012 9:46:22 AM	4440
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 9:46:22 AM	4440
Silver	ND	0.071	0.50		mg/Kg	2	10/29/2012 2:11:45 PM	4440
Vanadium	18	0.11	5.0		mg/Kg	2	10/25/2012 9:46:22 AM	4440
Zinc	22	2.0	5.0		mg/Kg	2	10/25/2012 9:46:22 AM	4440

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210653-002C

Client Sample ID: SWMU 1-37 (1.5-2')
Collection Date: 10/10/2012 5:15:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 9:51:37 AM	4440
Arsenic	2.2	1.3	5.0	J	mg/Kg	2	10/25/2012 9:51:37 AM	4440
Barium	370	0.61	1.0		mg/Kg	10	10/25/2012 12:42:54 PM	4440
Beryllium	0.79	0.019	0.30		mg/Kg	2	10/25/2012 9:51:37 AM	4440
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 9:51:37 AM	4440
Chromium	24	0.24	0.60		mg/Kg	2	10/25/2012 9:51:37 AM	4440
Cobalt	4.4	0.14	0.60		mg/Kg	2	10/25/2012 9:51:37 AM	4440
Iron	16000	370	500		mg/Kg	500	11/2/2012 6:24:23 AM	4440
Lead	3.1	0.44	0.50		mg/Kg	2	10/25/2012 9:51:37 AM	4440
Manganese	570	0.42	2.0		mg/Kg	20	10/25/2012 2:27:00 PM	4440
Nickel	7.6	0.33	1.0		mg/Kg	2	10/25/2012 9:51:37 AM	4440
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 9:51:37 AM	4440
Silver	ND	0.071	0.50		mg/Kg	2	10/29/2012 2:27:29 PM	4440
Vanadium	19	0.11	5.0		mg/Kg	2	10/25/2012 9:51:37 AM	4440
Zinc	25	2.0	5.0		mg/Kg	2	10/25/2012 9:51:37 AM	4440

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210653-003C

Client Sample ID: SWMU 1-37 (8-8.5')
Collection Date: 10/10/2012 5:30:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 10:06:49 AM	4440
Arsenic	2.1	1.3	5.0	J	mg/Kg	2	10/25/2012 10:06:49 AM	4440
Barium	130	0.61	1.0		mg/Kg	10	10/25/2012 12:47:59 PM	4440
Beryllium	0.77	0.019	0.30		mg/Kg	2	10/25/2012 10:06:49 AM	4440
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 10:06:49 AM	4440
Chromium	10	0.24	0.60		mg/Kg	2	10/25/2012 10:06:49 AM	4440
Cobalt	4.1	0.14	0.60		mg/Kg	2	10/25/2012 10:06:49 AM	4440
Iron	18000	370	500		mg/Kg	500	11/2/2012 6:27:16 AM	4440
Lead	3.6	0.44	0.50		mg/Kg	2	10/25/2012 10:06:49 AM	4440
Manganese	350	0.21	1.0		mg/Kg	10	10/25/2012 12:47:59 PM	4440
Nickel	7.3	0.33	1.0		mg/Kg	2	10/25/2012 10:06:49 AM	4440
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 10:06:49 AM	4440
Silver	ND	0.071	0.50		mg/Kg	2	10/29/2012 2:32:46 PM	4440
Vanadium	17	0.11	5.0		mg/Kg	2	10/25/2012 10:06:49 AM	4440
Zinc	16	2.0	5.0		mg/Kg	2	10/25/2012 10:06:49 AM	4440

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210653-004C

Client Sample ID: SWMU 1-37 (8.5-9')
Collection Date: 10/10/2012 5:40:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 10:12:01 AM	4440
Arsenic	ND	1.3	5.0		mg/Kg	2	10/25/2012 10:12:01 AM	4440
Barium	130	0.61	1.0		mg/Kg	10	10/25/2012 12:54:40 PM	4440
Beryllium	0.83	0.019	0.30		mg/Kg	2	10/25/2012 10:12:01 AM	4440
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 10:12:01 AM	4440
Chromium	8.6	0.24	0.60		mg/Kg	2	10/25/2012 10:12:01 AM	4440
Cobalt	3.8	0.14	0.60		mg/Kg	2	10/25/2012 10:12:01 AM	4440
Iron	16000	370	500		mg/Kg	500	11/2/2012 6:30:08 AM	4440
Lead	2.8	0.44	0.50		mg/Kg	2	10/25/2012 10:12:01 AM	4440
Manganese	230	0.21	1.0		mg/Kg	10	10/25/2012 12:54:40 PM	4440
Nickel	6.9	0.33	1.0		mg/Kg	2	10/25/2012 10:12:01 AM	4440
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 10:12:01 AM	4440
Silver	ND	0.071	0.50		mg/Kg	2	10/29/2012 2:38:00 PM	4440
Vanadium	14	0.11	5.0		mg/Kg	2	10/25/2012 10:12:01 AM	4440
Zinc	13	2.0	5.0		mg/Kg	2	10/25/2012 10:12:01 AM	4440

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210653-005C

Client Sample ID: SWMU 1-37 (12-13')
Collection Date: 10/10/2012 5:55:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 10:17:05 AM	4440
Arsenic	ND	1.3	5.0		mg/Kg	2	10/25/2012 10:17:05 AM	4440
Barium	210	0.61	1.0		mg/Kg	10	10/25/2012 12:59:33 PM	4440
Beryllium	0.72	0.019	0.30		mg/Kg	2	10/25/2012 10:17:05 AM	4440
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 10:17:05 AM	4440
Chromium	15	0.24	0.60		mg/Kg	2	10/25/2012 10:17:05 AM	4440
Cobalt	4.1	0.14	0.60		mg/Kg	2	10/25/2012 10:17:05 AM	4440
Iron	15000	370	500		mg/Kg	500	11/2/2012 6:43:03 AM	4440
Lead	2.8	0.44	0.50		mg/Kg	2	10/25/2012 10:17:05 AM	4440
Manganese	530	0.42	2.0		mg/Kg	20	10/25/2012 2:32:04 PM	4440
Nickel	6.9	0.33	1.0		mg/Kg	2	10/25/2012 10:17:05 AM	4440
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 10:17:05 AM	4440
Silver	ND	0.071	0.50		mg/Kg	2	10/29/2012 2:43:15 PM	4440
Vanadium	17	0.11	5.0		mg/Kg	2	10/25/2012 10:17:05 AM	4440
Zinc	16	2.0	5.0		mg/Kg	2	10/25/2012 10:17:05 AM	4440

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	Page 5 of 0
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210653-006C

Client Sample ID: SWMU 1-37 (13-14')
Collection Date: 10/10/2012 6:05:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: JLF		
Antimony	ND	3.1	12		mg/Kg	5	10/25/2012 1:04:23 PM	4440
Arsenic	ND	3.1	12		mg/Kg	5	10/25/2012 1:04:23 PM	4440
Barium	280	0.61	1.0		mg/Kg	10	10/25/2012 1:06:48 PM	4440
Beryllium	1.2	0.046	0.75		mg/Kg	5	10/25/2012 1:04:23 PM	4440
Cadmium	ND	0.14	0.50		mg/Kg	5	10/25/2012 1:04:23 PM	4440
Chromium	13	0.59	1.5		mg/Kg	5	10/25/2012 1:04:23 PM	4440
Cobalt	6.0	0.34	1.5		mg/Kg	5	10/25/2012 1:04:23 PM	4440
Iron	20000	370	500		mg/Kg	500	11/2/2012 6:45:53 AM	4440
Lead	4.0	1.1	1.2		mg/Kg	5	10/25/2012 1:04:23 PM	4440
Manganese	320	0.21	1.0		mg/Kg	10	10/25/2012 1:06:48 PM	4440
Nickel	11	0.83	2.5		mg/Kg	5	10/25/2012 1:04:23 PM	4440
Selenium	ND	7.0	12		mg/Kg	5	10/25/2012 1:04:23 PM	4440
Silver	ND	0.18	1.3		mg/Kg	5	10/29/2012 2:48:38 PM	4440
Vanadium	20	0.28	12		mg/Kg	5	10/25/2012 1:04:23 PM	4440
Zinc	20	5.0	12		mg/Kg	5	10/25/2012 1:04:23 PM	4440

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210653-007C

Client Sample ID: SWMU 1-37 (17-18')
Collection Date: 10/10/2012 6:20:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	10/25/2012 1:20:11 PM	4440
Arsenic	3.9	3.1	12	J	mg/Kg	5	10/25/2012 1:20:11 PM	4440
Barium	870	3.0	5.0		mg/Kg	50	10/25/2012 1:22:36 PM	4440
Beryllium	1.0	0.046	0.75		mg/Kg	5	10/25/2012 1:20:11 PM	4440
Cadmium	ND	0.14	0.50		mg/Kg	5	10/25/2012 1:20:11 PM	4440
Chromium	13	0.59	1.5		mg/Kg	5	10/25/2012 1:20:11 PM	4440
Cobalt	6.2	0.34	1.5		mg/Kg	5	10/25/2012 1:20:11 PM	4440
Iron	24000	750	1000		mg/Kg	1000	11/2/2012 6:48:43 AM	4440
Lead	5.0	1.1	1.2		mg/Kg	5	10/25/2012 1:20:11 PM	4440
Manganese	1400	1.1	5.0		mg/Kg	50	10/25/2012 1:22:36 PM	4440
Nickel	12	0.83	2.5		mg/Kg	5	10/25/2012 1:20:11 PM	4440
Selenium	ND	7.0	12		mg/Kg	5	10/25/2012 1:20:11 PM	4440
Silver	ND	0.18	1.2		mg/Kg	5	10/29/2012 3:03:53 PM	4440
Vanadium	16	0.28	12		mg/Kg	5	10/25/2012 1:20:11 PM	4440
Zinc	21	5.0	12		mg/Kg	5	10/25/2012 1:20:11 PM	4440

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210692-001C

Client Sample ID: SWMU 1-20 (0-0.5')
Collection Date: 10/11/2012 12:20:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 9:11:00 PM	4498
Arsenic	2.6	1.3	5.0	J	mg/Kg	2	10/25/2012 9:11:00 PM	4498
Barium	740	1.2	2.0		mg/Kg	20	11/2/2012 7:24:51 AM	4498
Beryllium	0.71	0.019	0.30		mg/Kg	2	10/25/2012 9:11:00 PM	4498
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 9:11:00 PM	4498
Chromium	19	0.24	0.60		mg/Kg	2	10/25/2012 9:11:00 PM	4498
Cobalt	4.0	0.14	0.60		mg/Kg	2	10/25/2012 9:11:00 PM	4498
Iron	15000	370	500		mg/Kg	500	11/2/2012 7:27:16 AM	4498
Lead	2.6	0.44	0.50		mg/Kg	2	10/25/2012 9:11:00 PM	4498
Manganese	650	0.42	2.0		mg/Kg	20	11/2/2012 7:24:51 AM	4498
Nickel	6.9	0.33	1.0		mg/Kg	2	10/25/2012 9:11:00 PM	4498
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 9:11:00 PM	4498
Silver	ND	0.071	0.50		mg/Kg	2	10/25/2012 9:11:00 PM	4498
Vanadium	22	0.11	5.0		mg/Kg	2	10/25/2012 9:11:00 PM	4498
Zinc	22	2.0	5.0		mg/Kg	2	10/25/2012 9:11:00 PM	4498

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		
				Page 1 of 0

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210692-002C

Client Sample ID: SWMU 1-20 (0-0.5') DUP
Collection Date: 10/11/2012 12:20:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	3.1	13		mg/Kg	5	11/2/2012 7:30:09 AM	4498
Arsenic	ND	3.1	13		mg/Kg	5	11/2/2012 7:30:09 AM	4498
Barium	840	1.2	2.0		mg/Kg	20	11/2/2012 9:49:13 AM	4498
Beryllium	0.94	0.047	0.75		mg/Kg	5	11/2/2012 7:30:09 AM	4498
Cadmium	ND	0.14	0.50		mg/Kg	5	11/2/2012 7:30:09 AM	4498
Chromium	23	0.59	1.5		mg/Kg	5	11/2/2012 7:30:09 AM	4498
Cobalt	5.4	0.34	1.5		mg/Kg	5	11/2/2012 7:30:09 AM	4498
Iron	19000	370	500		mg/Kg	500	11/2/2012 9:51:40 AM	4498
Lead	3.4	1.1	1.3		mg/Kg	5	11/2/2012 7:30:09 AM	4498
Manganese	680	0.42	2.0		mg/Kg	20	11/2/2012 9:49:13 AM	4498
Nickel	8.5	0.83	2.5		mg/Kg	5	11/2/2012 7:30:09 AM	4498
Selenium	ND	7.0	13		mg/Kg	5	11/2/2012 7:30:09 AM	4498
Silver	ND	0.18	1.3		mg/Kg	5	11/2/2012 7:30:09 AM	4498
Vanadium	32	0.28	13		mg/Kg	5	11/2/2012 7:30:09 AM	4498
Zinc	28	5.0	13		mg/Kg	5	11/2/2012 7:30:09 AM	4498

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210692-003C

Client Sample ID: SWMU 1-20 (1.5-2')
Collection Date: 10/11/2012 12:30:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	3.1	13		mg/Kg	5	11/2/2012 7:32:33 AM	4498
Arsenic	ND	3.1	13		mg/Kg	5	11/2/2012 7:32:33 AM	4498
Barium	1000	3.0	5.0		mg/Kg	50	11/2/2012 10:25:25 AM	4498
Beryllium	0.74	0.047	0.75	J	mg/Kg	5	11/2/2012 7:32:33 AM	4498
Cadmium	ND	0.14	0.50		mg/Kg	5	11/2/2012 7:32:33 AM	4498
Chromium	11	0.59	1.5		mg/Kg	5	11/2/2012 7:32:33 AM	4498
Cobalt	4.7	0.34	1.5		mg/Kg	5	11/2/2012 7:32:33 AM	4498
Iron	16000	370	500		mg/Kg	500	11/2/2012 9:56:46 AM	4498
Lead	3.9	1.1	1.3		mg/Kg	5	11/2/2012 7:32:33 AM	4498
Manganese	950	0.42	2.0		mg/Kg	20	11/2/2012 9:54:19 AM	4498
Nickel	7.3	0.83	2.5		mg/Kg	5	11/2/2012 7:32:33 AM	4498
Selenium	ND	7.0	13		mg/Kg	5	11/2/2012 7:32:33 AM	4498
Silver	ND	0.18	1.3		mg/Kg	5	11/2/2012 7:32:33 AM	4498
Vanadium	29	0.28	13		mg/Kg	5	11/2/2012 7:32:33 AM	4498
Zinc	17	5.0	13		mg/Kg	5	11/2/2012 7:32:33 AM	4498

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210692-004C

Client Sample ID: SWMU 1-20 (4-6')
Collection Date: 10/11/2012 12:45:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 9:36:54 PM	4498
Arsenic	2.4	1.3	5.0	J	mg/Kg	2	10/25/2012 9:36:54 PM	4498
Barium	190	0.61	1.0		mg/Kg	10	11/2/2012 7:35:01 AM	4498
Beryllium	0.97	0.019	0.30		mg/Kg	2	10/25/2012 9:36:54 PM	4498
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 9:36:54 PM	4498
Chromium	10	0.24	0.60		mg/Kg	2	10/25/2012 9:36:54 PM	4498
Cobalt	4.9	0.14	0.60		mg/Kg	2	10/25/2012 9:36:54 PM	4498
Iron	17000	370	500		mg/Kg	500	11/2/2012 7:37:27 AM	4498
Lead	2.8	0.44	0.50		mg/Kg	2	10/25/2012 9:36:54 PM	4498
Manganese	330	0.21	1.0		mg/Kg	10	11/2/2012 7:35:01 AM	4498
Nickel	8.6	0.33	1.0		mg/Kg	2	10/25/2012 9:36:54 PM	4498
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 9:36:54 PM	4498
Silver	ND	0.071	0.50		mg/Kg	2	10/25/2012 9:36:54 PM	4498
Vanadium	17	0.11	5.0		mg/Kg	2	10/25/2012 9:36:54 PM	4498
Zinc	16	2.0	5.0		mg/Kg	2	10/25/2012 9:36:54 PM	4498

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210692-005C

Client Sample ID: SWMU 1-20 (10-12')
Collection Date: 10/11/2012 1:00:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 9:45:32 PM	4498
Arsenic	2.1	1.3	5.0	J	mg/Kg	2	10/25/2012 9:45:32 PM	4498
Barium	1100	3.0	5.0		mg/Kg	50	11/2/2012 9:59:37 AM	4498
Beryllium	1.0	0.019	0.30		mg/Kg	2	10/25/2012 9:45:32 PM	4498
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 9:45:32 PM	4498
Chromium	12	0.24	0.60		mg/Kg	2	10/25/2012 9:45:32 PM	4498
Cobalt	5.8	0.14	0.60		mg/Kg	2	10/25/2012 9:45:32 PM	4498
Iron	18000	370	500		mg/Kg	500	11/2/2012 7:42:48 AM	4498
Lead	1.5	0.44	0.50		mg/Kg	2	10/25/2012 9:45:32 PM	4498
Manganese	540	0.42	2.0		mg/Kg	20	11/2/2012 7:40:21 AM	4498
Nickel	12	0.33	1.0		mg/Kg	2	10/25/2012 9:45:32 PM	4498
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 9:45:32 PM	4498
Silver	ND	0.071	0.50		mg/Kg	2	10/25/2012 9:45:32 PM	4498
Vanadium	21	0.11	5.0		mg/Kg	2	10/25/2012 9:45:32 PM	4498
Zinc	24	2.0	5.0		mg/Kg	2	10/25/2012 9:45:32 PM	4498

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210692-006C

Client Sample ID: SWMU 1-38 (0-0.5')
Collection Date: 10/11/2012 2:20:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 9:51:21 PM	4498
Arsenic	1.7	1.3	5.0	J	mg/Kg	2	10/25/2012 9:51:21 PM	4498
Barium	360	1.2	2.0		mg/Kg	20	11/2/2012 7:45:41 AM	4498
Beryllium	0.70	0.019	0.30		mg/Kg	2	10/25/2012 9:51:21 PM	4498
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 9:51:21 PM	4498
Chromium	24	0.24	0.60		mg/Kg	2	10/25/2012 9:51:21 PM	4498
Cobalt	3.9	0.14	0.60		mg/Kg	2	10/25/2012 9:51:21 PM	4498
Iron	14000	370	500		mg/Kg	500	11/2/2012 7:58:27 AM	4498
Lead	2.8	0.44	0.50		mg/Kg	2	10/25/2012 9:51:21 PM	4498
Manganese	480	0.42	2.0		mg/Kg	20	11/2/2012 7:45:41 AM	4498
Nickel	7.7	0.33	1.0		mg/Kg	2	10/25/2012 9:51:21 PM	4498
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 9:51:21 PM	4498
Silver	ND	0.071	0.50		mg/Kg	2	10/25/2012 9:51:21 PM	4498
Vanadium	17	0.11	5.0		mg/Kg	2	10/25/2012 9:51:21 PM	4498
Zinc	34	2.0	5.0		mg/Kg	2	10/25/2012 9:51:21 PM	4498

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210692-007C

Client Sample ID: SWMU 1-38 (1.5-2')
Collection Date: 10/11/2012 2:30:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 10:07:42 PM	4498
Arsenic	1.9	1.3	5.0	J	mg/Kg	2	10/25/2012 10:07:42 PM	4498
Barium	81	0.12	0.20		mg/Kg	2	10/25/2012 10:07:42 PM	4498
Beryllium	0.84	0.019	0.30		mg/Kg	2	10/25/2012 10:07:42 PM	4498
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 10:07:42 PM	4498
Chromium	12	0.24	0.60		mg/Kg	2	10/25/2012 10:07:42 PM	4498
Cobalt	4.9	0.14	0.60		mg/Kg	2	10/25/2012 10:07:42 PM	4498
Iron	20000	370	500		mg/Kg	500	11/2/2012 8:03:45 AM	4498
Lead	3.2	0.44	0.50		mg/Kg	2	10/25/2012 10:07:42 PM	4498
Manganese	600	0.42	2.0		mg/Kg	20	11/2/2012 8:01:20 AM	4498
Nickel	8.5	0.33	1.0		mg/Kg	2	10/25/2012 10:07:42 PM	4498
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 10:07:42 PM	4498
Silver	ND	0.071	0.50		mg/Kg	2	10/25/2012 10:07:42 PM	4498
Vanadium	30	0.11	5.0		mg/Kg	2	10/25/2012 10:07:42 PM	4498
Zinc	18	2.0	5.0		mg/Kg	2	10/25/2012 10:07:42 PM	4498

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210692-008C

Client Sample ID: SWMU 1-38 (6-8')
Collection Date: 10/11/2012 2:45:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 10:15:17 PM	4498
Arsenic	2.2	1.3	5.0	J	mg/Kg	2	10/25/2012 10:15:17 PM	4498
Barium	540	1.2	2.0		mg/Kg	20	11/2/2012 8:06:38 AM	4498
Beryllium	0.90	0.019	0.30		mg/Kg	2	10/25/2012 10:15:17 PM	4498
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 10:15:17 PM	4498
Chromium	12	0.24	0.60		mg/Kg	2	10/25/2012 10:15:17 PM	4498
Cobalt	5.2	0.14	0.60		mg/Kg	2	10/25/2012 10:15:17 PM	4498
Iron	22000	370	500		mg/Kg	500	11/2/2012 8:09:03 AM	4498
Lead	ND	0.44	0.50		mg/Kg	2	10/25/2012 10:15:17 PM	4498
Manganese	570	0.42	2.0		mg/Kg	20	11/2/2012 8:06:38 AM	4498
Nickel	11	0.33	1.0		mg/Kg	2	10/25/2012 10:15:17 PM	4498
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 10:15:17 PM	4498
Silver	ND	0.071	0.50		mg/Kg	2	10/25/2012 10:15:17 PM	4498
Vanadium	26	0.11	5.0		mg/Kg	2	10/25/2012 10:15:17 PM	4498
Zinc	22	2.0	5.0		mg/Kg	2	10/25/2012 10:15:17 PM	4498

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210692-009C

Client Sample ID: SWMU 1-27 (0-0.5')
Collection Date: 10/12/2012 9:00:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 10:21:12 PM	4498
Arsenic	3.5	1.3	5.0	J	mg/Kg	2	10/25/2012 10:21:12 PM	4498
Barium	560	1.2	2.0		mg/Kg	20	11/2/2012 8:11:40 AM	4498
Beryllium	0.60	0.019	0.30		mg/Kg	2	10/25/2012 10:21:12 PM	4498
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 10:21:12 PM	4498
Chromium	8.0	0.24	0.60		mg/Kg	2	10/25/2012 10:21:12 PM	4498
Cobalt	2.9	0.14	0.60		mg/Kg	2	10/25/2012 10:21:12 PM	4498
Iron	11000	370	500		mg/Kg	500	11/2/2012 8:14:06 AM	4498
Lead	1.4	0.44	0.50		mg/Kg	2	10/25/2012 10:21:12 PM	4498
Manganese	470	0.42	2.0		mg/Kg	20	11/2/2012 8:11:40 AM	4498
Nickel	5.8	0.33	1.0		mg/Kg	2	10/25/2012 10:21:12 PM	4498
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 10:21:12 PM	4498
Silver	ND	0.071	0.50		mg/Kg	2	10/25/2012 10:21:12 PM	4498
Vanadium	17	0.11	5.0		mg/Kg	2	10/25/2012 10:21:12 PM	4498
Zinc	15	2.0	5.0		mg/Kg	2	10/25/2012 10:21:12 PM	4498

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210692-010C

Client Sample ID: SWMU 1-27 (1.5-2')
Collection Date: 10/12/2012 9:15:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	3.1	13		mg/Kg	5	11/2/2012 8:17:00 AM	4498
Arsenic	ND	3.1	13		mg/Kg	5	11/2/2012 8:17:00 AM	4498
Barium	750	3.0	5.0		mg/Kg	50	11/2/2012 10:02:03 AM	4498
Beryllium	0.63	0.047	0.75	J	mg/Kg	5	11/2/2012 8:17:00 AM	4498
Cadmium	ND	0.14	0.50		mg/Kg	5	11/2/2012 8:17:00 AM	4498
Chromium	8.0	0.59	1.5		mg/Kg	5	11/2/2012 8:17:00 AM	4498
Cobalt	4.3	0.34	1.5		mg/Kg	5	11/2/2012 8:17:00 AM	4498
Iron	11000	370	500		mg/Kg	500	11/2/2012 10:06:05 AM	4498
Lead	2.7	1.1	1.3		mg/Kg	5	11/2/2012 8:17:00 AM	4498
Manganese	1300	1.1	5.0		mg/Kg	50	11/2/2012 10:02:03 AM	4498
Nickel	6.0	0.83	2.5		mg/Kg	5	11/2/2012 8:17:00 AM	4498
Selenium	ND	7.0	13		mg/Kg	5	11/2/2012 8:17:00 AM	4498
Silver	ND	0.18	1.3		mg/Kg	5	11/2/2012 8:17:00 AM	4498
Vanadium	20	0.28	13		mg/Kg	5	11/2/2012 8:17:00 AM	4498
Zinc	13	5.0	13		mg/Kg	5	11/2/2012 8:17:00 AM	4498

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210692-011C

Client Sample ID: SWMU 1-28 (0-0.5')
Collection Date: 10/12/2012 9:50:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 10:32:52 PM	4498
Arsenic	2.9	1.3	5.0	J	mg/Kg	2	10/25/2012 10:32:52 PM	4498
Barium	490	1.2	2.0		mg/Kg	20	11/2/2012 8:19:27 AM	4498
Beryllium	0.70	0.019	0.30		mg/Kg	2	10/25/2012 10:32:52 PM	4498
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 10:32:52 PM	4498
Chromium	10	0.24	0.60		mg/Kg	2	10/25/2012 10:32:52 PM	4498
Cobalt	3.7	0.14	0.60		mg/Kg	2	10/25/2012 10:32:52 PM	4498
Iron	13000	370	500		mg/Kg	500	11/2/2012 8:24:30 AM	4498
Lead	2.6	0.44	0.50		mg/Kg	2	10/25/2012 10:32:52 PM	4498
Manganese	520	0.42	2.0		mg/Kg	20	11/2/2012 8:19:27 AM	4498
Nickel	7.1	0.33	1.0		mg/Kg	2	10/25/2012 10:32:52 PM	4498
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 10:32:52 PM	4498
Silver	ND	0.071	0.50		mg/Kg	2	10/25/2012 10:32:52 PM	4498
Vanadium	18	0.11	5.0		mg/Kg	2	10/25/2012 10:32:52 PM	4498
Zinc	19	2.0	5.0		mg/Kg	2	10/25/2012 10:32:52 PM	4498

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210692-012C

Client Sample ID: SWMU 1-28 (1.5-2')
Collection Date: 10/12/2012 10:10:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 10:48:56 PM	4498
Arsenic	2.0	1.3	5.0	J	mg/Kg	2	10/25/2012 10:48:56 PM	4498
Barium	570	1.2	2.0		mg/Kg	20	11/2/2012 8:36:09 AM	4498
Beryllium	0.41	0.019	0.30		mg/Kg	2	10/25/2012 10:48:56 PM	4498
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 10:48:56 PM	4498
Chromium	5.2	0.24	0.60		mg/Kg	2	10/25/2012 10:48:56 PM	4498
Cobalt	2.7	0.14	0.60		mg/Kg	2	10/25/2012 10:48:56 PM	4498
Iron	8800	370	500		mg/Kg	500	11/2/2012 8:38:33 AM	4498
Lead	1.4	0.44	0.50		mg/Kg	2	10/25/2012 10:48:56 PM	4498
Manganese	430	0.42	2.0		mg/Kg	20	11/2/2012 8:36:09 AM	4498
Nickel	3.7	0.33	1.0		mg/Kg	2	10/25/2012 10:48:56 PM	4498
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 10:48:56 PM	4498
Silver	ND	0.071	0.50		mg/Kg	2	10/25/2012 10:48:56 PM	4498
Vanadium	12	0.11	5.0		mg/Kg	2	10/25/2012 10:48:56 PM	4498
Zinc	8.8	2.0	5.0		mg/Kg	2	10/25/2012 10:48:56 PM	4498

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210692-013C

Client Sample ID: SWMU 1-28 (1.5-2') DUP
Collection Date: 10/12/2012 10:10:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	3.1	12		mg/Kg	5	11/2/2012 8:41:27 AM	4498
Arsenic	ND	3.1	12		mg/Kg	5	11/2/2012 8:41:27 AM	4498
Barium	630	1.2	2.0		mg/Kg	20	11/2/2012 10:08:56 AM	4498
Beryllium	0.56	0.046	0.75	J	mg/Kg	5	11/2/2012 8:41:27 AM	4498
Cadmium	ND	0.14	0.50		mg/Kg	5	11/2/2012 8:41:27 AM	4498
Chromium	6.0	0.59	1.5		mg/Kg	5	11/2/2012 8:41:27 AM	4498
Cobalt	4.1	0.34	1.5		mg/Kg	5	11/2/2012 8:41:27 AM	4498
Iron	10000	370	500		mg/Kg	500	11/2/2012 10:11:20 AM	4498
Lead	3.1	1.1	1.2		mg/Kg	5	11/2/2012 8:41:27 AM	4498
Manganese	680	0.42	2.0		mg/Kg	20	11/2/2012 10:08:56 AM	4498
Nickel	4.8	0.83	2.5		mg/Kg	5	11/2/2012 8:41:27 AM	4498
Selenium	ND	7.0	12		mg/Kg	5	11/2/2012 8:41:27 AM	4498
Silver	ND	0.18	1.2		mg/Kg	5	11/2/2012 8:41:27 AM	4498
Vanadium	22	0.28	12		mg/Kg	5	11/2/2012 8:41:27 AM	4498
Zinc	12	5.0	12	J	mg/Kg	5	11/2/2012 8:41:27 AM	4498

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210692-014C

Client Sample ID: SWMU 1-30 (0-0.5')
Collection Date: 10/12/2012 11:40:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 11:16:17 PM	4498
Arsenic	2.0	1.3	5.0	J	mg/Kg	2	10/25/2012 11:16:17 PM	4498
Barium	580	1.2	2.0		mg/Kg	20	11/2/2012 8:51:14 AM	4498
Beryllium	0.69	0.019	0.30		mg/Kg	2	10/25/2012 11:16:17 PM	4498
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 11:16:17 PM	4498
Chromium	13	0.24	0.60		mg/Kg	2	10/25/2012 11:16:17 PM	4498
Cobalt	4.0	0.14	0.60		mg/Kg	2	10/25/2012 11:16:17 PM	4498
Iron	14000	370	500		mg/Kg	500	11/2/2012 8:53:39 AM	4498
Lead	3.7	0.44	0.50		mg/Kg	2	10/25/2012 11:16:17 PM	4498
Manganese	550	0.42	2.0		mg/Kg	20	11/2/2012 8:51:14 AM	4498
Nickel	7.3	0.33	1.0		mg/Kg	2	10/25/2012 11:16:17 PM	4498
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 11:16:17 PM	4498
Silver	ND	0.071	0.50		mg/Kg	2	10/25/2012 11:16:17 PM	4498
Vanadium	21	0.11	5.0		mg/Kg	2	10/25/2012 11:16:17 PM	4498
Zinc	26	2.0	5.0		mg/Kg	2	10/25/2012 11:16:17 PM	4498

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	Page 14 of 0
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210692-015C

Client Sample ID: SWMU 1-30 (1.5-2')
Collection Date: 10/12/2012 12:00:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 11:32:24 PM	4498
Arsenic	1.5	1.3	5.0	J	mg/Kg	2	10/25/2012 11:32:24 PM	4498
Barium	610	1.2	2.0		mg/Kg	20	11/2/2012 8:58:09 AM	4498
Beryllium	0.67	0.019	0.30		mg/Kg	2	10/25/2012 11:32:24 PM	4498
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 11:32:24 PM	4498
Chromium	12	0.24	0.60		mg/Kg	2	10/25/2012 11:32:24 PM	4498
Cobalt	3.8	0.14	0.60		mg/Kg	2	10/25/2012 11:32:24 PM	4498
Iron	14000	370	500		mg/Kg	500	11/2/2012 9:00:35 AM	4498
Lead	3.1	0.44	0.50		mg/Kg	2	10/25/2012 11:32:24 PM	4498
Manganese	530	0.42	2.0		mg/Kg	20	11/2/2012 8:58:09 AM	4498
Nickel	6.9	0.33	1.0		mg/Kg	2	10/25/2012 11:32:24 PM	4498
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 11:32:24 PM	4498
Silver	ND	0.071	0.50		mg/Kg	2	10/25/2012 11:32:24 PM	4498
Vanadium	17	0.11	5.0		mg/Kg	2	10/25/2012 11:32:24 PM	4498
Zinc	19	2.0	5.0		mg/Kg	2	10/25/2012 11:32:24 PM	4498

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/26/2012

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210692-016C

Client Sample ID: SWMU 1-30 (4-6)
Collection Date: 10/12/2012 12:10:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 11:38:10 PM	4498
Arsenic	1.8	1.3	5.0	J	mg/Kg	2	10/25/2012 11:38:10 PM	4498
Barium	870	1.2	2.0		mg/Kg	20	11/2/2012 9:12:14 AM	4498
Beryllium	0.47	0.019	0.30		mg/Kg	2	10/25/2012 11:38:10 PM	4498
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 11:38:10 PM	4498
Chromium	7.5	0.24	0.60		mg/Kg	2	10/25/2012 11:38:10 PM	4498
Cobalt	3.1	0.14	0.60		mg/Kg	2	10/25/2012 11:38:10 PM	4498
Iron	12000	370	500		mg/Kg	500	11/2/2012 9:14:39 AM	4498
Lead	3.3	0.44	0.50		mg/Kg	2	10/25/2012 11:38:10 PM	4498
Manganese	840	0.42	2.0		mg/Kg	20	11/2/2012 9:12:14 AM	4498
Nickel	4.7	0.33	1.0		mg/Kg	2	10/25/2012 11:38:10 PM	4498
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 11:38:10 PM	4498
Silver	ND	0.071	0.50		mg/Kg	2	10/25/2012 11:38:10 PM	4498
Vanadium	16	0.11	5.0		mg/Kg	2	10/25/2012 11:38:10 PM	4498
Zinc	10	2.0	5.0		mg/Kg	2	10/25/2012 11:38:10 PM	4498

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210692-017C

Client Sample ID: SWMU 1-35 (0-0.5')
Collection Date: 10/12/2012 12:45:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 11:43:54 PM	4498
Arsenic	2.1	1.3	5.0	J	mg/Kg	2	10/25/2012 11:43:54 PM	4498
Barium	610	1.2	2.0		mg/Kg	20	11/2/2012 9:17:31 AM	4498
Beryllium	0.67	0.019	0.30		mg/Kg	2	10/25/2012 11:43:54 PM	4498
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 11:43:54 PM	4498
Chromium	14	0.24	0.60		mg/Kg	2	10/25/2012 11:43:54 PM	4498
Cobalt	3.9	0.14	0.60		mg/Kg	2	10/25/2012 11:43:54 PM	4498
Iron	13000	370	500		mg/Kg	500	11/2/2012 9:19:57 AM	4498
Lead	2.6	0.44	0.50		mg/Kg	2	10/25/2012 11:43:54 PM	4498
Manganese	500	0.42	2.0		mg/Kg	20	11/2/2012 9:17:31 AM	4498
Nickel	10	0.33	1.0		mg/Kg	2	10/25/2012 11:43:54 PM	4498
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 11:43:54 PM	4498
Silver	ND	0.071	0.50		mg/Kg	2	10/25/2012 11:43:54 PM	4498
Vanadium	26	0.11	5.0		mg/Kg	2	10/25/2012 11:43:54 PM	4498
Zinc	23	2.0	5.0		mg/Kg	2	10/25/2012 11:43:54 PM	4498

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/26/2012

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210692-018C

Client Sample ID: SWMU 1-35 (1.5-2')
Collection Date: 10/12/2012 1:00:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 11:49:40 PM	4498
Arsenic	3.4	1.3	5.0	J	mg/Kg	2	10/25/2012 11:49:40 PM	4498
Barium	1200	3.0	5.0		mg/Kg	50	11/2/2012 10:14:10 AM	4498
Beryllium	0.46	0.019	0.30		mg/Kg	2	10/25/2012 11:49:40 PM	4498
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 11:49:40 PM	4498
Chromium	11	0.24	0.60		mg/Kg	2	10/25/2012 11:49:40 PM	4498
Cobalt	3.4	0.14	0.60		mg/Kg	2	10/25/2012 11:49:40 PM	4498
Iron	10000	370	500		mg/Kg	500	11/2/2012 9:25:14 AM	4498
Lead	2.3	0.44	0.50		mg/Kg	2	10/25/2012 11:49:40 PM	4498
Manganese	820	0.42	2.0		mg/Kg	20	11/2/2012 9:22:48 AM	4498
Nickel	9.0	0.33	1.0		mg/Kg	2	10/25/2012 11:49:40 PM	4498
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 11:49:40 PM	4498
Silver	ND	0.071	0.50		mg/Kg	2	10/25/2012 11:49:40 PM	4498
Vanadium	19	0.11	5.0		mg/Kg	2	10/25/2012 11:49:40 PM	4498
Zinc	22	2.0	5.0		mg/Kg	2	10/25/2012 11:49:40 PM	4498

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	Page 18 of 0
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210692-019C

Client Sample ID: SWMU 1-35 (4-6')
Collection Date: 10/12/2012 1:10:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 11:57:27 PM	4498
Arsenic	2.3	1.3	5.0	J	mg/Kg	2	10/25/2012 11:57:27 PM	4498
Barium	440	1.2	2.0		mg/Kg	20	11/2/2012 9:28:08 AM	4498
Beryllium	0.67	0.019	0.30		mg/Kg	2	10/25/2012 11:57:27 PM	4498
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 11:57:27 PM	4498
Chromium	9.8	0.24	0.60		mg/Kg	2	10/25/2012 11:57:27 PM	4498
Cobalt	3.6	0.14	0.60		mg/Kg	2	10/25/2012 11:57:27 PM	4498
Iron	16000	370	500		mg/Kg	500	11/2/2012 9:32:13 AM	4498
Lead	3.3	0.44	0.50		mg/Kg	2	10/25/2012 11:57:27 PM	4498
Manganese	770	0.42	2.0		mg/Kg	20	11/2/2012 9:28:08 AM	4498
Nickel	6.2	0.33	1.0		mg/Kg	2	10/25/2012 11:57:27 PM	4498
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 11:57:27 PM	4498
Silver	ND	0.071	0.50		mg/Kg	2	10/25/2012 11:57:27 PM	4498
Vanadium	25	0.11	5.0		mg/Kg	2	10/25/2012 11:57:27 PM	4498
Zinc	12	2.0	5.0		mg/Kg	2	10/25/2012 11:57:27 PM	4498

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

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

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Company**Client Sample ID:** SWMU 1-13 (0-0.5')**Project:** SWMU NO.1**Collection Date:** 10/12/2012 2:05:00 PM**Lab ID:** 1210692-021C**Matrix:** Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/26/2012 12:11:53 AM	4498
Arsenic	2.5	1.3	5.0	J	mg/Kg	2	10/26/2012 12:11:53 AM	4498
Barium	600	1.2	2.0		mg/Kg	20	11/2/2012 9:35:04 AM	4498
Beryllium	0.56	0.019	0.30		mg/Kg	2	10/26/2012 12:11:53 AM	4498
Cadmium	ND	0.054	0.20		mg/Kg	2	10/26/2012 12:11:53 AM	4498
Chromium	11	0.24	0.60		mg/Kg	2	10/26/2012 12:11:53 AM	4498
Cobalt	3.6	0.14	0.60		mg/Kg	2	10/26/2012 12:11:53 AM	4498
Iron	13000	370	500		mg/Kg	500	11/2/2012 9:37:29 AM	4498
Lead	3.5	0.44	0.50		mg/Kg	2	10/26/2012 12:11:53 AM	4498
Manganese	590	0.42	2.0		mg/Kg	20	11/2/2012 9:35:04 AM	4498
Nickel	6.3	0.33	1.0		mg/Kg	2	10/26/2012 12:11:53 AM	4498
Selenium	ND	2.8	5.0		mg/Kg	2	10/26/2012 12:11:53 AM	4498
Silver	ND	0.071	0.50		mg/Kg	2	10/26/2012 12:11:53 AM	4498
Vanadium	18	0.11	5.0		mg/Kg	2	10/26/2012 12:11:53 AM	4498
Zinc	30	2.0	5.0		mg/Kg	2	10/26/2012 12:11:53 AM	4498

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	Page 20 of 0
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210692-022C

Client Sample ID: SWMU 1-13 (1.5-2')
Collection Date: 10/12/2012 2:25:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	1.3	5.0		mg/Kg	2	11/2/2012 10:27:47 AM	4499
Arsenic	ND	1.3	5.0		mg/Kg	2	11/2/2012 10:27:47 AM	4499
Barium	310	0.61	1.0		mg/Kg	10	11/2/2012 2:53:36 PM	4499
Beryllium	0.74	0.019	0.30		mg/Kg	2	11/2/2012 10:27:47 AM	4499
Cadmium	ND	0.054	0.20		mg/Kg	2	11/2/2012 10:27:47 AM	4499
Chromium	7.1	0.24	0.60		mg/Kg	2	11/2/2012 10:27:47 AM	4499
Cobalt	3.8	0.14	0.60		mg/Kg	2	11/2/2012 10:27:47 AM	4499
Iron	10000	370	500		mg/Kg	500	11/2/2012 2:56:03 PM	4499
Lead	3.7	0.44	0.50		mg/Kg	2	11/2/2012 10:27:47 AM	4499
Manganese	510	0.42	2.0		mg/Kg	20	11/2/2012 3:30:43 PM	4499
Nickel	6.1	0.33	1.0		mg/Kg	2	11/2/2012 10:27:47 AM	4499
Selenium	ND	2.8	5.0		mg/Kg	2	11/2/2012 10:27:47 AM	4499
Silver	ND	0.071	0.50		mg/Kg	2	11/2/2012 10:27:47 AM	4499
Vanadium	15	0.11	5.0		mg/Kg	2	11/2/2012 10:27:47 AM	4499
Zinc	13	2.0	5.0		mg/Kg	2	11/2/2012 10:27:47 AM	4499

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	Page 21 of 0
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210692-023C

Client Sample ID: SWMU 1-13 (2-4')
Collection Date: 10/12/2012 2:35:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	1.3	5.0		mg/Kg	2	11/2/2012 10:30:13 AM	4499
Arsenic	ND	1.3	5.0		mg/Kg	2	11/2/2012 10:30:13 AM	4499
Barium	250	0.61	1.0		mg/Kg	10	11/2/2012 3:00:37 PM	4499
Beryllium	0.60	0.019	0.30		mg/Kg	2	11/2/2012 10:30:13 AM	4499
Cadmium	ND	0.054	0.20		mg/Kg	2	11/2/2012 10:30:13 AM	4499
Chromium	22	0.24	0.60		mg/Kg	2	11/2/2012 10:30:13 AM	4499
Cobalt	4.3	0.14	0.60		mg/Kg	2	11/2/2012 10:30:13 AM	4499
Iron	11000	370	500		mg/Kg	500	11/2/2012 3:03:01 PM	4499
Lead	4.2	0.44	0.50		mg/Kg	2	11/2/2012 10:30:13 AM	4499
Manganese	250	0.21	1.0		mg/Kg	10	11/2/2012 3:00:37 PM	4499
Nickel	7.0	0.33	1.0		mg/Kg	2	11/2/2012 10:30:13 AM	4499
Selenium	ND	2.8	5.0		mg/Kg	2	11/2/2012 10:30:13 AM	4499
Silver	ND	0.071	0.50		mg/Kg	2	11/2/2012 10:30:13 AM	4499
Vanadium	18	0.11	5.0		mg/Kg	2	11/2/2012 10:30:13 AM	4499
Zinc	29	2.0	5.0		mg/Kg	2	11/2/2012 10:30:13 AM	4499

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	Page 22 of 0
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210692-024C

Client Sample ID: SWMU 1-13 (4-6')
Collection Date: 10/12/2012 3:00:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	1.3	5.0		mg/Kg	2	11/2/2012 10:32:38 AM	4499
Arsenic	ND	1.3	5.0		mg/Kg	2	11/2/2012 10:32:38 AM	4499
Barium	120	0.61	1.0		mg/Kg	10	11/2/2012 3:05:52 PM	4499
Beryllium	0.71	0.019	0.30		mg/Kg	2	11/2/2012 10:32:38 AM	4499
Cadmium	ND	0.054	0.20		mg/Kg	2	11/2/2012 10:32:38 AM	4499
Chromium	7.8	0.24	0.60		mg/Kg	2	11/2/2012 10:32:38 AM	4499
Cobalt	4.1	0.14	0.60		mg/Kg	2	11/2/2012 10:32:38 AM	4499
Iron	11000	370	500		mg/Kg	500	11/2/2012 3:08:17 PM	4499
Lead	2.5	0.44	0.50		mg/Kg	2	11/2/2012 10:32:38 AM	4499
Manganese	320	0.21	1.0		mg/Kg	10	11/2/2012 3:05:52 PM	4499
Nickel	6.6	0.33	1.0		mg/Kg	2	11/2/2012 10:32:38 AM	4499
Selenium	ND	2.8	5.0		mg/Kg	2	11/2/2012 10:32:38 AM	4499
Silver	ND	0.071	0.50		mg/Kg	2	11/2/2012 10:32:38 AM	4499
Vanadium	17	0.11	5.0		mg/Kg	2	11/2/2012 10:32:38 AM	4499
Zinc	14	2.0	5.0		mg/Kg	2	11/2/2012 10:32:38 AM	4499

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210692-025C

Client Sample ID: SWMU 1-13 (4-6') DUP
Collection Date: 10/12/2012 3:00:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	1.3	5.0		mg/Kg	2	11/2/2012 10:35:02 AM	4499
Arsenic	ND	1.3	5.0		mg/Kg	2	11/2/2012 10:35:02 AM	4499
Barium	290	0.61	1.0		mg/Kg	10	11/2/2012 3:11:09 PM	4499
Beryllium	0.68	0.019	0.30		mg/Kg	2	11/2/2012 10:35:02 AM	4499
Cadmium	ND	0.054	0.20		mg/Kg	2	11/2/2012 10:35:02 AM	4499
Chromium	7.3	0.24	0.60		mg/Kg	2	11/2/2012 10:35:02 AM	4499
Cobalt	4.0	0.14	0.60		mg/Kg	2	11/2/2012 10:35:02 AM	4499
Iron	11000	370	500		mg/Kg	500	11/2/2012 3:13:34 PM	4499
Lead	3.0	0.44	0.50		mg/Kg	2	11/2/2012 10:35:02 AM	4499
Manganese	310	0.21	1.0		mg/Kg	10	11/2/2012 3:11:09 PM	4499
Nickel	6.5	0.33	1.0		mg/Kg	2	11/2/2012 10:35:02 AM	4499
Selenium	ND	2.8	5.0		mg/Kg	2	11/2/2012 10:35:02 AM	4499
Silver	ND	0.071	0.50		mg/Kg	2	11/2/2012 10:35:02 AM	4499
Vanadium	16	0.11	5.0		mg/Kg	2	11/2/2012 10:35:02 AM	4499
Zinc	14	2.0	5.0		mg/Kg	2	11/2/2012 10:35:02 AM	4499

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210811-001C

Client Sample ID: SWMU 1-9 (0-0.5')
Collection Date: 10/15/2012 10:55:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	1.3	5.0		mg/Kg	2	11/2/2012 10:39:08 AM	4499
Arsenic	2.2	1.3	5.0	J	mg/Kg	2	11/2/2012 10:39:08 AM	4499
Barium	620	1.2	2.0		mg/Kg	20	11/2/2012 3:25:22 PM	4499
Beryllium	0.71	0.019	0.30		mg/Kg	2	11/2/2012 10:39:08 AM	4499
Cadmium	ND	0.054	0.20		mg/Kg	2	11/2/2012 10:39:08 AM	4499
Chromium	24	0.24	0.60		mg/Kg	2	11/2/2012 10:39:08 AM	4499
Cobalt	5.0	0.14	0.60		mg/Kg	2	11/2/2012 10:39:08 AM	4499
Iron	12000	370	500		mg/Kg	500	11/2/2012 3:27:50 PM	4499
Lead	7.0	0.44	0.50		mg/Kg	2	11/2/2012 10:39:08 AM	4499
Manganese	600	0.42	2.0		mg/Kg	20	11/2/2012 3:25:22 PM	4499
Nickel	15	0.33	1.0		mg/Kg	2	11/2/2012 10:39:08 AM	4499
Selenium	ND	2.8	5.0		mg/Kg	2	11/2/2012 10:39:08 AM	4499
Silver	ND	0.071	0.50		mg/Kg	2	11/2/2012 10:39:08 AM	4499
Vanadium	21	0.11	5.0		mg/Kg	2	11/2/2012 10:39:08 AM	4499
Zinc	53	2.0	5.0		mg/Kg	2	11/2/2012 10:39:08 AM	4499

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210811-002C

Client Sample ID: SWMU 1-9 (1.5-2')
Collection Date: 10/15/2012 11:05:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	1.3	5.0		mg/Kg	2	11/2/2012 10:41:39 AM	4499
Arsenic	ND	1.3	5.0		mg/Kg	2	11/2/2012 10:41:39 AM	4499
Barium	200	0.61	1.0		mg/Kg	10	11/2/2012 3:34:47 PM	4499
Beryllium	0.84	0.019	0.30		mg/Kg	2	11/2/2012 10:41:39 AM	4499
Cadmium	ND	0.054	0.20		mg/Kg	2	11/2/2012 10:41:39 AM	4499
Chromium	8.7	0.24	0.60		mg/Kg	2	11/2/2012 10:41:39 AM	4499
Cobalt	4.3	0.14	0.60		mg/Kg	2	11/2/2012 10:41:39 AM	4499
Iron	12000	370	500		mg/Kg	500	11/2/2012 3:37:14 PM	4499
Lead	2.7	0.44	0.50		mg/Kg	2	11/2/2012 10:41:39 AM	4499
Manganese	300	0.21	1.0		mg/Kg	10	11/2/2012 3:34:47 PM	4499
Nickel	7.1	0.33	1.0		mg/Kg	2	11/2/2012 10:41:39 AM	4499
Selenium	ND	2.8	5.0		mg/Kg	2	11/2/2012 10:41:39 AM	4499
Silver	ND	0.071	0.50		mg/Kg	2	11/2/2012 10:41:39 AM	4499
Vanadium	16	0.11	5.0		mg/Kg	2	11/2/2012 10:41:39 AM	4499
Zinc	14	2.0	5.0		mg/Kg	2	11/2/2012 10:41:39 AM	4499

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210811-003C

Client Sample ID: SWMU 1-10 (0-0.5')
Collection Date: 10/15/2012 11:20:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	1.3	5.0		mg/Kg	2	11/2/2012 10:44:04 AM	4499
Arsenic	2.9	1.3	5.0	J	mg/Kg	2	11/2/2012 10:44:04 AM	4499
Barium	590	1.2	2.0		mg/Kg	20	11/2/2012 3:40:07 PM	4499
Beryllium	0.65	0.019	0.30		mg/Kg	2	11/2/2012 10:44:04 AM	4499
Cadmium	ND	0.054	0.20		mg/Kg	2	11/2/2012 10:44:04 AM	4499
Chromium	24	0.24	0.60		mg/Kg	2	11/2/2012 10:44:04 AM	4499
Cobalt	5.0	0.14	0.60		mg/Kg	2	11/2/2012 10:44:04 AM	4499
Iron	14000	370	500		mg/Kg	500	11/2/2012 3:42:33 PM	4499
Lead	9.1	0.44	0.50		mg/Kg	2	11/2/2012 10:44:04 AM	4499
Manganese	560	0.42	2.0		mg/Kg	20	11/2/2012 3:40:07 PM	4499
Nickel	14	0.33	1.0		mg/Kg	2	11/2/2012 10:44:04 AM	4499
Selenium	ND	2.8	5.0		mg/Kg	2	11/2/2012 10:44:04 AM	4499
Silver	ND	0.071	0.50		mg/Kg	2	11/2/2012 10:44:04 AM	4499
Vanadium	24	0.11	5.0		mg/Kg	2	11/2/2012 10:44:04 AM	4499
Zinc	70	2.0	5.0		mg/Kg	2	11/2/2012 10:44:04 AM	4499

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210811-004C

Client Sample ID: SWMU 1-10 (1.5-2')
Collection Date: 10/15/2012 11:30:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	1.3	5.0		mg/Kg	2	11/2/2012 10:46:49 AM	4499
Arsenic	3.3	1.3	5.0	J	mg/Kg	2	11/2/2012 10:46:49 AM	4499
Barium	580	1.2	2.0		mg/Kg	20	11/2/2012 3:45:28 PM	4499
Beryllium	0.54	0.019	0.30		mg/Kg	2	11/2/2012 10:46:49 AM	4499
Cadmium	ND	0.054	0.20		mg/Kg	2	11/2/2012 10:46:49 AM	4499
Chromium	15	0.24	0.60		mg/Kg	2	11/2/2012 10:46:49 AM	4499
Cobalt	4.2	0.14	0.60		mg/Kg	2	11/2/2012 10:46:49 AM	4499
Iron	7400	370	500		mg/Kg	500	11/2/2012 3:47:54 PM	4499
Lead	3.0	0.44	0.50		mg/Kg	2	11/2/2012 10:46:49 AM	4499
Manganese	790	0.42	2.0		mg/Kg	20	11/2/2012 3:45:28 PM	4499
Nickel	11	0.33	1.0		mg/Kg	2	11/2/2012 10:46:49 AM	4499
Selenium	ND	2.8	5.0		mg/Kg	2	11/2/2012 10:46:49 AM	4499
Silver	ND	0.071	0.50		mg/Kg	2	11/2/2012 10:46:49 AM	4499
Vanadium	22	0.11	5.0		mg/Kg	2	11/2/2012 10:46:49 AM	4499
Zinc	26	2.0	5.0		mg/Kg	2	11/2/2012 10:46:49 AM	4499

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210811-005C

Client Sample ID: SWMU 1-11 (0-0.5')
Collection Date: 10/15/2012 12:05:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	1.3	5.0		mg/Kg	2	11/2/2012 10:49:22 AM	4499
Arsenic	2.0	1.3	5.0	J	mg/Kg	2	11/2/2012 10:49:22 AM	4499
Barium	510	1.2	2.0		mg/Kg	20	11/2/2012 3:50:46 PM	4499
Beryllium	0.77	0.019	0.30		mg/Kg	2	11/2/2012 10:49:22 AM	4499
Cadmium	ND	0.054	0.20		mg/Kg	2	11/2/2012 10:49:22 AM	4499
Chromium	15	0.24	0.60		mg/Kg	2	11/2/2012 10:49:22 AM	4499
Cobalt	5.4	0.14	0.60		mg/Kg	2	11/2/2012 10:49:22 AM	4499
Iron	14000	370	500		mg/Kg	500	11/2/2012 4:02:06 PM	4499
Lead	3.5	0.44	0.50		mg/Kg	2	11/2/2012 10:49:22 AM	4499
Manganese	620	0.42	2.0		mg/Kg	20	11/2/2012 3:50:46 PM	4499
Nickel	8.8	0.33	1.0		mg/Kg	2	11/2/2012 10:49:22 AM	4499
Selenium	ND	2.8	5.0		mg/Kg	2	11/2/2012 10:49:22 AM	4499
Silver	ND	0.071	0.50		mg/Kg	2	11/2/2012 10:49:22 AM	4499
Vanadium	25	0.11	5.0		mg/Kg	2	11/2/2012 10:49:22 AM	4499
Zinc	39	2.0	5.0		mg/Kg	2	11/2/2012 10:49:22 AM	4499

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210811-006C

Client Sample ID: SWMU 1-11 (1.5-2')
Collection Date: 10/15/2012 12:20:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	1.3	5.0		mg/Kg	2	11/2/2012 11:00:53 AM	4499
Arsenic	2.8	1.3	5.0	J	mg/Kg	2	11/2/2012 11:00:53 AM	4499
Barium	590	1.2	2.0		mg/Kg	20	11/2/2012 4:05:01 PM	4499
Beryllium	0.61	0.019	0.30		mg/Kg	2	11/2/2012 11:00:53 AM	4499
Cadmium	ND	0.054	0.20		mg/Kg	2	11/2/2012 11:00:53 AM	4499
Chromium	12	0.24	0.60		mg/Kg	2	11/2/2012 11:00:53 AM	4499
Cobalt	4.0	0.14	0.60		mg/Kg	2	11/2/2012 11:00:53 AM	4499
Iron	7400	370	500		mg/Kg	500	11/2/2012 4:09:11 PM	4499
Lead	1.4	0.44	0.50		mg/Kg	2	11/2/2012 11:00:53 AM	4499
Manganese	400	0.42	2.0		mg/Kg	20	11/2/2012 4:05:01 PM	4499
Nickel	7.1	0.33	1.0		mg/Kg	2	11/2/2012 11:00:53 AM	4499
Selenium	ND	2.8	5.0		mg/Kg	2	11/2/2012 11:00:53 AM	4499
Silver	ND	0.071	0.50		mg/Kg	2	11/2/2012 11:00:53 AM	4499
Vanadium	18	0.11	5.0		mg/Kg	2	11/2/2012 11:00:53 AM	4499
Zinc	44	2.0	5.0		mg/Kg	2	11/2/2012 11:00:53 AM	4499

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210811-007C

Client Sample ID: SWMU 1-12 (0-0.5')
Collection Date: 10/15/2012 2:45:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	1.3	5.0		mg/Kg	2	11/2/2012 11:03:20 AM	4499
Arsenic	2.6	1.3	5.0	J	mg/Kg	2	11/2/2012 11:03:20 AM	4499
Barium	400	0.61	1.0		mg/Kg	10	11/2/2012 4:12:04 PM	4499
Beryllium	0.95	0.019	0.30		mg/Kg	2	11/2/2012 11:03:20 AM	4499
Cadmium	ND	0.054	0.20		mg/Kg	2	11/2/2012 11:03:20 AM	4499
Chromium	15	0.24	0.60		mg/Kg	2	11/2/2012 11:03:20 AM	4499
Cobalt	5.4	0.14	0.60		mg/Kg	2	11/2/2012 11:03:20 AM	4499
Iron	15000	370	500		mg/Kg	500	11/2/2012 4:14:29 PM	4499
Lead	1.6	0.44	0.50		mg/Kg	2	11/2/2012 11:03:20 AM	4499
Manganese	390	0.21	1.0		mg/Kg	10	11/2/2012 4:12:04 PM	4499
Nickel	9.9	0.33	1.0		mg/Kg	2	11/2/2012 11:03:20 AM	4499
Selenium	ND	2.8	5.0		mg/Kg	2	11/2/2012 11:03:20 AM	4499
Silver	ND	0.071	0.50		mg/Kg	2	11/2/2012 11:03:20 AM	4499
Vanadium	24	0.11	5.0		mg/Kg	2	11/2/2012 11:03:20 AM	4499
Zinc	61	2.0	5.0		mg/Kg	2	11/2/2012 11:03:20 AM	4499

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210811-008C

Client Sample ID: SWMU 1-12 (0.5-1')
Collection Date: 10/15/2012 3:00:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	1.3	5.0		mg/Kg	2	11/2/2012 11:05:49 AM	4499
Arsenic	2.4	1.3	5.0	J	mg/Kg	2	11/2/2012 11:05:49 AM	4499
Barium	440	0.61	1.0		mg/Kg	10	11/2/2012 4:17:23 PM	4499
Beryllium	0.76	0.019	0.30		mg/Kg	2	11/2/2012 11:05:49 AM	4499
Cadmium	ND	0.054	0.20		mg/Kg	2	11/2/2012 11:05:49 AM	4499
Chromium	14	0.24	0.60		mg/Kg	2	11/2/2012 11:05:49 AM	4499
Cobalt	4.9	0.14	0.60		mg/Kg	2	11/2/2012 11:05:49 AM	4499
Iron	13000	370	500		mg/Kg	500	11/2/2012 4:19:48 PM	4499
Lead	1.6	0.44	0.50		mg/Kg	2	11/2/2012 11:05:49 AM	4499
Manganese	460	0.21	1.0		mg/Kg	10	11/2/2012 4:17:23 PM	4499
Nickel	8.0	0.33	1.0		mg/Kg	2	11/2/2012 11:05:49 AM	4499
Selenium	ND	2.8	5.0		mg/Kg	2	11/2/2012 11:05:49 AM	4499
Silver	ND	0.071	0.50		mg/Kg	2	11/2/2012 11:05:49 AM	4499
Vanadium	24	0.11	5.0		mg/Kg	2	11/2/2012 11:05:49 AM	4499
Zinc	40	2.0	5.0		mg/Kg	2	11/2/2012 11:05:49 AM	4499

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210811-009C

Client Sample ID: SWMU 1-14 (0-0.5')
Collection Date: 10/15/2012 3:30:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	1.3	5.0		mg/Kg	2	11/2/2012 11:08:19 AM	4499
Arsenic	ND	1.3	5.0		mg/Kg	2	11/2/2012 11:08:19 AM	4499
Barium	530	1.2	2.0		mg/Kg	20	11/2/2012 4:25:06 PM	4499
Beryllium	1.0	0.019	0.30		mg/Kg	2	11/2/2012 11:08:19 AM	4499
Cadmium	ND	0.054	0.20		mg/Kg	2	11/2/2012 11:08:19 AM	4499
Chromium	11	0.24	0.60		mg/Kg	2	11/2/2012 11:08:19 AM	4499
Cobalt	5.4	0.14	0.60		mg/Kg	2	11/2/2012 11:08:19 AM	4499
Iron	14000	370	500		mg/Kg	500	11/2/2012 4:27:31 PM	4499
Lead	1.9	0.44	0.50		mg/Kg	2	11/2/2012 11:08:19 AM	4499
Manganese	300	0.21	1.0		mg/Kg	10	11/2/2012 4:22:41 PM	4499
Nickel	8.9	0.33	1.0		mg/Kg	2	11/2/2012 11:08:19 AM	4499
Selenium	ND	2.8	5.0		mg/Kg	2	11/2/2012 11:08:19 AM	4499
Silver	ND	0.071	0.50		mg/Kg	2	11/2/2012 11:08:19 AM	4499
Vanadium	20	0.11	5.0		mg/Kg	2	11/2/2012 11:08:19 AM	4499
Zinc	33	2.0	5.0		mg/Kg	2	11/2/2012 11:08:19 AM	4499

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210811-010C

Client Sample ID: SWMU 1-14 (1.5-2')
Collection Date: 10/15/2012 3:55:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	13		mg/Kg	5	11/2/2012 4:43:30 PM	4499
Arsenic	ND	3.1	13		mg/Kg	5	11/2/2012 4:43:30 PM	4499
Barium	360	1.2	2.0		mg/Kg	20	11/2/2012 4:45:54 PM	4499
Beryllium	0.75	0.047	0.75		mg/Kg	5	11/2/2012 4:43:30 PM	4499
Cadmium	ND	0.14	0.50		mg/Kg	5	11/2/2012 4:43:30 PM	4499
Chromium	11	0.59	1.5		mg/Kg	5	11/2/2012 4:43:30 PM	4499
Cobalt	4.4	0.34	1.5		mg/Kg	5	11/2/2012 4:43:30 PM	4499
Iron	13000	370	500		mg/Kg	500	11/2/2012 4:48:20 PM	4499
Lead	4.1	1.1	1.3		mg/Kg	5	11/2/2012 4:43:30 PM	4499
Manganese	430	0.42	2.0		mg/Kg	20	11/2/2012 4:45:54 PM	4499
Nickel	7.6	0.83	2.5		mg/Kg	5	11/2/2012 4:43:30 PM	4499
Selenium	ND	7.0	13		mg/Kg	5	11/2/2012 4:43:30 PM	4499
Silver	ND	0.18	1.3		mg/Kg	5	11/2/2012 4:43:30 PM	4499
Vanadium	19	0.28	13		mg/Kg	5	11/2/2012 4:43:30 PM	4499
Zinc	16	5.0	13		mg/Kg	5	11/2/2012 4:43:30 PM	4499

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210811-011C

Client Sample ID: SWMU 1-14 (1.5-2') DUP
Collection Date: 10/15/2012 3:55:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	1.3	5.0		mg/Kg	2	11/2/2012 11:15:00 AM	4499
Arsenic	ND	1.3	5.0		mg/Kg	2	11/2/2012 11:15:00 AM	4499
Barium	240	0.61	1.0		mg/Kg	10	11/2/2012 4:51:10 PM	4499
Beryllium	0.81	0.019	0.30		mg/Kg	2	11/2/2012 11:15:00 AM	4499
Cadmium	ND	0.054	0.20		mg/Kg	2	11/2/2012 11:15:00 AM	4499
Chromium	11	0.24	0.60		mg/Kg	2	11/2/2012 11:15:00 AM	4499
Cobalt	5.0	0.14	0.60		mg/Kg	2	11/2/2012 11:15:00 AM	4499
Iron	15000	370	500		mg/Kg	500	11/2/2012 4:53:33 PM	4499
Lead	1.0	0.44	0.50		mg/Kg	2	11/2/2012 11:15:00 AM	4499
Manganese	350	0.21	1.0		mg/Kg	10	11/2/2012 4:51:10 PM	4499
Nickel	8.3	0.33	1.0		mg/Kg	2	11/2/2012 11:15:00 AM	4499
Selenium	ND	2.8	5.0		mg/Kg	2	11/2/2012 11:15:00 AM	4499
Silver	ND	0.071	0.50		mg/Kg	2	11/2/2012 11:15:00 AM	4499
Vanadium	28	0.11	5.0		mg/Kg	2	11/2/2012 11:15:00 AM	4499
Zinc	21	2.0	5.0		mg/Kg	2	11/2/2012 11:15:00 AM	4499

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

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

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Company**Client Sample ID:** SWMU 1-15 (0-0.5')**Project:** SWMU NO.1**Collection Date:** 10/15/2012 4:20:00 PM**Lab ID:** 1210811-012C**Matrix:** Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
							Analyst: JLF	
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	3.1	13		mg/Kg	5	11/2/2012 4:56:27 PM	4499
Arsenic	ND	3.1	13		mg/Kg	5	11/2/2012 4:56:27 PM	4499
Barium	360	1.2	2.0		mg/Kg	20	11/2/2012 4:58:52 PM	4499
Beryllium	0.75	0.047	0.75		mg/Kg	5	11/2/2012 4:56:27 PM	4499
Cadmium	ND	0.14	0.50		mg/Kg	5	11/2/2012 4:56:27 PM	4499
Chromium	10	0.59	1.5		mg/Kg	5	11/2/2012 4:56:27 PM	4499
Cobalt	4.4	0.34	1.5		mg/Kg	5	11/2/2012 4:56:27 PM	4499
Iron	13000	370	500		mg/Kg	500	11/2/2012 5:01:17 PM	4499
Lead	3.1	1.1	1.3		mg/Kg	5	11/2/2012 4:56:27 PM	4499
Manganese	350	0.42	2.0		mg/Kg	20	11/2/2012 4:58:52 PM	4499
Nickel	7.6	0.83	2.5		mg/Kg	5	11/2/2012 4:56:27 PM	4499
Selenium	ND	7.0	13		mg/Kg	5	11/2/2012 4:56:27 PM	4499
Silver	ND	0.18	1.3		mg/Kg	5	11/2/2012 4:56:27 PM	4499
Vanadium	19	0.28	13		mg/Kg	5	11/2/2012 4:56:27 PM	4499
Zinc	18	5.0	13		mg/Kg	5	11/2/2012 4:56:27 PM	4499

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210811-013C

Client Sample ID: SWMU 1-15 (1.5-2')
Collection Date: 10/15/2012 4:30:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	1.3	5.0		mg/Kg	2	11/2/2012 11:19:59 AM	4499
Arsenic	ND	1.3	5.0		mg/Kg	2	11/2/2012 11:19:59 AM	4499
Barium	240	0.61	1.0		mg/Kg	10	11/2/2012 5:04:08 PM	4499
Beryllium	0.79	0.019	0.30		mg/Kg	2	11/2/2012 11:19:59 AM	4499
Cadmium	ND	0.054	0.20		mg/Kg	2	11/2/2012 11:19:59 AM	4499
Chromium	11	0.24	0.60		mg/Kg	2	11/2/2012 11:19:59 AM	4499
Cobalt	5.3	0.14	0.60		mg/Kg	2	11/2/2012 11:19:59 AM	4499
Iron	12000	370	500		mg/Kg	500	11/6/2012 11:53:57 AM	4499
Lead	1.4	0.44	0.50		mg/Kg	2	11/2/2012 11:19:59 AM	4499
Manganese	400	0.21	1.0		mg/Kg	10	11/2/2012 5:04:08 PM	4499
Nickel	8.3	0.33	1.0		mg/Kg	2	11/2/2012 11:19:59 AM	4499
Selenium	ND	2.8	5.0		mg/Kg	2	11/2/2012 11:19:59 AM	4499
Silver	ND	0.071	0.50		mg/Kg	2	11/2/2012 11:19:59 AM	4499
Vanadium	22	0.11	5.0		mg/Kg	2	11/2/2012 11:19:59 AM	4499
Zinc	21	2.0	5.0		mg/Kg	2	11/2/2012 11:19:59 AM	4499

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210811-014C

Client Sample ID: SWMU 1-16 (0-0.5')
Collection Date: 10/15/2012 4:55:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	1.3	5.0		mg/Kg	2	11/2/2012 11:22:28 AM	4499
Arsenic	ND	1.3	5.0		mg/Kg	2	11/2/2012 11:22:28 AM	4499
Barium	640	1.2	2.0		mg/Kg	20	11/2/2012 5:19:54 PM	4499
Beryllium	0.46	0.019	0.30		mg/Kg	2	11/2/2012 11:22:28 AM	4499
Cadmium	ND	0.054	0.20		mg/Kg	2	11/2/2012 11:22:28 AM	4499
Chromium	3.9	0.24	0.60		mg/Kg	2	11/2/2012 11:22:28 AM	4499
Cobalt	3.0	0.14	0.60		mg/Kg	2	11/2/2012 11:22:28 AM	4499
Iron	3400	370	500		mg/Kg	500	11/6/2012 11:56:51 AM	4499
Lead	ND	0.44	0.50		mg/Kg	2	11/2/2012 11:22:28 AM	4499
Manganese	330	0.42	2.0		mg/Kg	20	11/2/2012 5:19:54 PM	4499
Nickel	4.6	0.33	1.0		mg/Kg	2	11/2/2012 11:22:28 AM	4499
Selenium	ND	2.8	5.0		mg/Kg	2	11/2/2012 11:22:28 AM	4499
Silver	ND	0.071	0.50		mg/Kg	2	11/2/2012 11:22:28 AM	4499
Vanadium	14	0.11	5.0		mg/Kg	2	11/2/2012 11:22:28 AM	4499
Zinc	14	2.0	5.0		mg/Kg	2	11/2/2012 11:22:28 AM	4499

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210811-015C

Client Sample ID: SWMU 1-16 (1.5-2')
Collection Date: 10/15/2012 5:05:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	3.1	12		mg/Kg	5	11/6/2012 11:59:37 AM	4499
Arsenic	ND	3.1	12		mg/Kg	5	11/6/2012 11:59:37 AM	4499
Barium	290	1.2	2.0		mg/Kg	20	11/2/2012 5:27:35 PM	4499
Beryllium	0.70	0.046	0.75	J	mg/Kg	5	11/2/2012 5:25:09 PM	4499
Cadmium	ND	0.14	0.50		mg/Kg	5	11/2/2012 5:25:09 PM	4499
Chromium	9.9	0.59	1.5		mg/Kg	5	11/2/2012 5:25:09 PM	4499
Cobalt	4.2	0.34	1.5		mg/Kg	5	11/2/2012 5:25:09 PM	4499
Iron	12000	370	500		mg/Kg	500	11/6/2012 12:02:39 PM	4499
Lead	4.2	1.1	1.2		mg/Kg	5	11/2/2012 5:25:09 PM	4499
Manganese	790	0.42	2.0		mg/Kg	20	11/2/2012 5:27:35 PM	4499
Nickel	7.2	0.83	2.5		mg/Kg	5	11/2/2012 5:25:09 PM	4499
Selenium	ND	7.0	12		mg/Kg	5	11/2/2012 5:25:09 PM	4499
Silver	ND	0.18	1.2		mg/Kg	5	11/2/2012 5:25:09 PM	4499
Vanadium	18	0.28	12		mg/Kg	5	11/2/2012 5:25:09 PM	4499
Zinc	17	5.0	12		mg/Kg	5	11/6/2012 11:59:37 AM	4499

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210811-016C

Client Sample ID: SWMU 1-17 (0-0.5')
Collection Date: 10/15/2012 5:30:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	1.3	5.0		mg/Kg	2	11/27/2012 10:08:12 AM	4499
Arsenic	4.7	1.3	5.0	J	mg/Kg	2	11/27/2012 10:08:12 AM	4499
Barium	500	1.2	2.0		mg/Kg	20	11/2/2012 5:40:07 PM	4499
Beryllium	0.67	0.019	0.30		mg/Kg	2	11/2/2012 11:37:29 AM	4499
Cadmium	ND	0.054	0.20		mg/Kg	2	11/2/2012 11:37:29 AM	4499
Chromium	6.6	0.24	0.60		mg/Kg	2	11/2/2012 11:37:29 AM	4499
Cobalt	4.1	0.14	0.60		mg/Kg	2	11/2/2012 11:37:29 AM	4499
Iron	8200	370	500		mg/Kg	500	11/6/2012 2:17:39 PM	4499
Lead	0.82	0.44	0.50		mg/Kg	2	11/2/2012 11:37:29 AM	4499
Manganese	360	0.42	2.0		mg/Kg	20	11/2/2012 5:40:07 PM	4499
Nickel	6.4	0.33	1.0		mg/Kg	2	11/2/2012 11:37:29 AM	4499
Selenium	ND	2.8	5.0		mg/Kg	2	11/27/2012 10:08:12 AM	4499
Silver	ND	0.071	0.50		mg/Kg	2	11/2/2012 11:37:29 AM	4499
Vanadium	19	0.11	5.0		mg/Kg	2	11/2/2012 11:37:29 AM	4499
Zinc	15	2.0	5.0		mg/Kg	2	11/2/2012 11:37:29 AM	4499

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210811-017C

Client Sample ID: SWMU 1-17 (1-1.5')
Collection Date: 10/15/2012 5:40:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	11/6/2012 12:24:33 PM	4583
Arsenic	ND	1.3	5.0		mg/Kg	2	11/6/2012 2:00:22 PM	4583
Barium	310	1.2	2.0		mg/Kg	20	11/2/2012 6:05:26 PM	4583
Beryllium	0.78	0.019	0.30		mg/Kg	2	11/2/2012 6:02:58 PM	4583
Cadmium	ND	0.054	0.20		mg/Kg	2	11/2/2012 6:02:58 PM	4583
Chromium	8.8	0.24	0.60		mg/Kg	2	11/2/2012 6:02:58 PM	4583
Cobalt	4.1	0.14	0.60		mg/Kg	2	11/2/2012 6:02:58 PM	4583
Iron	11000	370	500		mg/Kg	500	11/6/2012 2:20:27 PM	4583
Lead	3.5	0.44	0.50		mg/Kg	2	11/2/2012 6:02:58 PM	4583
Manganese	340	0.42	2.0		mg/Kg	20	11/2/2012 6:05:26 PM	4583
Nickel	7.2	0.33	1.0		mg/Kg	2	11/2/2012 6:02:58 PM	4583
Selenium	ND	2.8	5.0		mg/Kg	2	11/2/2012 6:02:58 PM	4583
Silver	0.18	0.071	0.50	J	mg/Kg	2	11/13/2012 5:30:19 AM	4745
Vanadium	13	0.11	5.0		mg/Kg	2	11/2/2012 6:02:58 PM	4583
Zinc	15	2.0	5.0		mg/Kg	2	11/6/2012 12:24:33 PM	4583

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	Page 17 of 0
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210856-001C

Client Sample ID: SWMU 1-31 (0-0.5')
Collection Date: 10/16/2012 3:00:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 11:38:41 AM	4440
Arsenic	3.5	1.3	5.0	J	mg/Kg	2	10/25/2012 11:38:41 AM	4440
Barium	350	0.61	1.0		mg/Kg	10	10/25/2012 1:29:20 PM	4440
Beryllium	0.56	0.019	0.30		mg/Kg	2	10/25/2012 11:38:41 AM	4440
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 11:38:41 AM	4440
Chromium	12	0.24	0.60		mg/Kg	2	10/25/2012 11:38:41 AM	4440
Cobalt	3.8	0.14	0.60		mg/Kg	2	10/25/2012 11:38:41 AM	4440
Iron	13000	370	500		mg/Kg	500	11/2/2012 6:51:37 AM	4440
Lead	5.2	0.44	0.50		mg/Kg	2	10/25/2012 11:38:41 AM	4440
Manganese	420	0.21	1.0		mg/Kg	10	10/25/2012 1:29:20 PM	4440
Nickel	8.0	0.33	1.0		mg/Kg	2	10/25/2012 11:38:41 AM	4440
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 11:38:41 AM	4440
Silver	ND	0.071	0.50		mg/Kg	2	10/29/2012 3:19:29 PM	4440
Vanadium	19	0.11	5.0		mg/Kg	2	10/25/2012 11:38:41 AM	4440
Zinc	30	2.0	5.0		mg/Kg	2	10/25/2012 11:38:41 AM	4440

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210856-002C

Client Sample ID: SWMU 1-32 (0-0.5')
Collection Date: 10/16/2012 3:40:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 11:43:44 AM	4440
Arsenic	3.1	1.3	5.0	J	mg/Kg	2	10/25/2012 11:43:44 AM	4440
Barium	600	1.2	2.0		mg/Kg	20	10/25/2012 2:44:01 PM	4440
Beryllium	0.64	0.019	0.30		mg/Kg	2	10/25/2012 11:43:44 AM	4440
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 11:43:44 AM	4440
Chromium	17	0.24	0.60		mg/Kg	2	10/25/2012 11:43:44 AM	4440
Cobalt	4.0	0.14	0.60		mg/Kg	2	10/25/2012 11:43:44 AM	4440
Iron	14000	370	500		mg/Kg	500	11/2/2012 6:54:30 AM	4440
Lead	6.3	0.44	0.50		mg/Kg	2	10/25/2012 11:43:44 AM	4440
Manganese	440	0.21	1.0		mg/Kg	10	10/25/2012 1:34:12 PM	4440
Nickel	13	0.33	1.0		mg/Kg	2	10/25/2012 11:43:44 AM	4440
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 11:43:44 AM	4440
Silver	ND	0.035	0.25		mg/Kg	1	10/29/2012 3:24:30 PM	4440
Vanadium	22	0.11	5.0		mg/Kg	2	10/25/2012 11:43:44 AM	4440
Zinc	36	2.0	5.0		mg/Kg	2	10/25/2012 11:43:44 AM	4440

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210856-003C

Client Sample ID: SWMU 1-32 (0-0.5') DUP
Collection Date: 10/16/2012 3:40:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 11:50:31 AM	4440
Arsenic	2.5	1.3	5.0	J	mg/Kg	2	10/25/2012 11:50:31 AM	4440
Barium	580	1.2	2.0		mg/Kg	20	10/25/2012 2:48:50 PM	4440
Beryllium	0.66	0.019	0.30		mg/Kg	2	10/25/2012 11:50:31 AM	4440
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 11:50:31 AM	4440
Chromium	21	0.24	0.60		mg/Kg	2	10/25/2012 11:50:31 AM	4440
Cobalt	5.1	0.14	0.60		mg/Kg	2	10/25/2012 11:50:31 AM	4440
Iron	19000	370	500		mg/Kg	500	11/2/2012 6:57:23 AM	4440
Lead	8.0	0.44	0.50		mg/Kg	2	10/25/2012 11:50:31 AM	4440
Manganese	540	0.42	2.0		mg/Kg	20	10/25/2012 2:48:50 PM	4440
Nickel	16	0.33	1.0		mg/Kg	2	10/25/2012 11:50:31 AM	4440
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 11:50:31 AM	4440
Silver	ND	0.071	0.50		mg/Kg	2	10/29/2012 3:41:51 PM	4440
Vanadium	28	0.11	5.0		mg/Kg	2	10/25/2012 11:50:31 AM	4440
Zinc	43	2.0	5.0		mg/Kg	2	10/25/2012 11:50:31 AM	4440

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

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

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Company**Client Sample ID:** SWMU 1-33 (0-0.5')**Project:** SWMU NO.1**Collection Date:** 10/16/2012 4:03:00 PM**Lab ID:** 1210856-004C**Matrix:** Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 11:55:53 AM	4440
Arsenic	2.3	1.3	5.0	J	mg/Kg	2	10/25/2012 11:55:53 AM	4440
Barium	680	1.2	2.0		mg/Kg	20	10/25/2012 1:52:47 PM	4440
Beryllium	0.64	0.019	0.30		mg/Kg	2	10/25/2012 11:55:53 AM	4440
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 11:55:53 AM	4440
Chromium	12	0.24	0.60		mg/Kg	2	10/25/2012 11:55:53 AM	4440
Cobalt	3.2	0.14	0.60		mg/Kg	2	10/25/2012 11:55:53 AM	4440
Iron	13000	370	500		mg/Kg	500	11/2/2012 7:00:17 AM	4440
Lead	3.7	0.44	0.50		mg/Kg	2	10/25/2012 11:55:53 AM	4440
Manganese	800	0.42	2.0		mg/Kg	20	10/25/2012 1:52:47 PM	4440
Nickel	8.9	0.33	1.0		mg/Kg	2	10/25/2012 11:55:53 AM	4440
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 11:55:53 AM	4440
Silver	ND	0.035	0.25		mg/Kg	1	10/29/2012 3:47:14 PM	4440
Vanadium	19	0.11	5.0		mg/Kg	2	10/25/2012 11:55:53 AM	4440
Zinc	23	2.0	5.0		mg/Kg	2	10/25/2012 11:55:53 AM	4440

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210856-005C

Client Sample ID: SWMU 1-34 (0-0.5')
Collection Date: 10/16/2012 4:30:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 12:09:46 PM	4440
Arsenic	2.9	1.3	5.0	J	mg/Kg	2	10/25/2012 12:09:46 PM	4440
Barium	740	1.2	2.0		mg/Kg	20	10/25/2012 1:57:39 PM	4440
Beryllium	0.52	0.019	0.30		mg/Kg	2	10/25/2012 12:09:46 PM	4440
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 12:09:46 PM	4440
Chromium	12	0.24	0.60		mg/Kg	2	10/25/2012 12:09:46 PM	4440
Cobalt	2.7	0.14	0.60		mg/Kg	2	10/25/2012 12:09:46 PM	4440
Iron	9800	370	500		mg/Kg	500	11/2/2012 7:03:09 AM	4440
Lead	2.5	0.44	0.50		mg/Kg	2	10/25/2012 12:09:46 PM	4440
Manganese	520	0.42	2.0		mg/Kg	20	10/25/2012 1:57:39 PM	4440
Nickel	7.5	0.33	1.0		mg/Kg	2	10/25/2012 12:09:46 PM	4440
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 12:09:46 PM	4440
Silver	ND	0.035	0.25		mg/Kg	1	10/29/2012 3:52:27 PM	4440
Vanadium	18	0.11	5.0		mg/Kg	2	10/25/2012 12:09:46 PM	4440
Zinc	28	2.0	5.0		mg/Kg	2	10/25/2012 12:09:46 PM	4440

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210856-006C

Client Sample ID: SWMU 1-36 (0-0.5')
Collection Date: 10/16/2012 5:00:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 12:14:48 PM	4440
Arsenic	2.5	1.3	5.0	J	mg/Kg	2	10/25/2012 12:14:48 PM	4440
Barium	690	1.2	2.0		mg/Kg	20	10/25/2012 2:04:20 PM	4440
Beryllium	0.66	0.019	0.30		mg/Kg	2	10/25/2012 12:14:48 PM	4440
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 12:14:48 PM	4440
Chromium	21	0.24	0.60		mg/Kg	2	10/25/2012 12:14:48 PM	4440
Cobalt	4.3	0.14	0.60		mg/Kg	2	10/25/2012 12:14:48 PM	4440
Iron	16000	370	500		mg/Kg	500	11/2/2012 7:06:02 AM	4440
Lead	6.8	0.44	0.50		mg/Kg	2	10/25/2012 12:14:48 PM	4440
Manganese	580	0.42	2.0		mg/Kg	20	10/25/2012 2:04:20 PM	4440
Nickel	12	0.33	1.0		mg/Kg	2	10/25/2012 12:14:48 PM	4440
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 12:14:48 PM	4440
Silver	ND	0.071	0.50		mg/Kg	2	10/29/2012 3:57:34 PM	4440
Vanadium	20	0.11	5.0		mg/Kg	2	10/25/2012 12:14:48 PM	4440
Zinc	50	2.0	5.0		mg/Kg	2	10/25/2012 12:14:48 PM	4440

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

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

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Company**Client Sample ID:** SWMU 1-18 (0-0.5')**Project:** SWMU NO.1**Collection Date:** 10/16/2012 10:00:00 AM**Lab ID:** 1210858-001C**Matrix:** Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 4:50:20 PM	4441
Arsenic	4.9	1.3	5.0	J	mg/Kg	2	10/25/2012 4:50:20 PM	4441
Barium	700	1.2	2.0		mg/Kg	20	10/25/2012 4:53:22 PM	4441
Beryllium	0.35	0.019	0.30		mg/Kg	2	10/25/2012 4:50:20 PM	4441
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 4:50:20 PM	4441
Chromium	3.4	0.24	0.60		mg/Kg	2	10/25/2012 4:50:20 PM	4441
Cobalt	1.9	0.14	0.60		mg/Kg	2	10/25/2012 4:50:20 PM	4441
Iron	3600	370	500		mg/Kg	500	10/25/2012 4:56:13 PM	4441
Lead	ND	0.44	0.50		mg/Kg	2	10/25/2012 4:50:20 PM	4441
Manganese	300	0.42	2.0		mg/Kg	20	10/25/2012 4:53:22 PM	4441
Nickel	3.6	0.33	1.0		mg/Kg	2	10/25/2012 4:50:20 PM	4441
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 4:50:20 PM	4441
Silver	ND	0.071	0.50		mg/Kg	2	10/25/2012 4:50:20 PM	4441
Vanadium	11	0.11	5.0		mg/Kg	2	10/25/2012 4:50:20 PM	4441
Zinc	11	2.0	5.0		mg/Kg	2	10/25/2012 4:50:20 PM	4441

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210858-002C

Client Sample ID: SWMU 1-18 (1-1.5')
Collection Date: 10/16/2012 10:10:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Antimony	ND	3.1	12		mg/Kg	5	10/29/2012 4:05:34 PM	4441
Arsenic	ND	3.1	12		mg/Kg	5	10/29/2012 4:05:34 PM	4441
Barium	340	1.2	2.0		mg/Kg	20	10/25/2012 5:06:32 PM	4441
Beryllium	0.64	0.046	0.75	J	mg/Kg	5	10/29/2012 4:05:34 PM	4441
Cadmium	ND	0.14	0.50		mg/Kg	5	10/29/2012 4:05:34 PM	4441
Chromium	9.2	0.59	1.5		mg/Kg	5	10/29/2012 4:05:34 PM	4441
Cobalt	3.8	0.34	1.5		mg/Kg	5	10/29/2012 4:05:34 PM	4441
Iron	11000	370	500		mg/Kg	500	10/25/2012 5:20:33 PM	4441
Lead	6.1	1.1	1.2		mg/Kg	5	10/29/2012 4:05:34 PM	4441
Manganese	1500	1.1	5.0		mg/Kg	50	10/29/2012 4:18:19 PM	4441
Nickel	6.4	0.83	2.5		mg/Kg	5	10/29/2012 4:05:34 PM	4441
Selenium	ND	7.0	12		mg/Kg	5	10/29/2012 4:05:34 PM	4441
Silver	ND	0.18	1.2		mg/Kg	5	10/29/2012 4:05:34 PM	4441
Vanadium	20	0.28	12		mg/Kg	5	10/29/2012 4:05:34 PM	4441
Zinc	15	5.0	12		mg/Kg	5	10/29/2012 4:05:34 PM	4441

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210858-003C

Client Sample ID: SWMU 1-19 (0-0.5')
Collection Date: 10/16/2012 10:35:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 5:26:14 PM	4441
Arsenic	1.6	1.3	5.0	J	mg/Kg	2	10/25/2012 5:26:14 PM	4441
Barium	530	1.2	2.0		mg/Kg	20	10/25/2012 5:29:06 PM	4441
Beryllium	0.68	0.019	0.30		mg/Kg	2	10/25/2012 5:26:14 PM	4441
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 5:26:14 PM	4441
Chromium	13	0.24	0.60		mg/Kg	2	10/25/2012 5:26:14 PM	4441
Cobalt	3.8	0.14	0.60		mg/Kg	2	10/25/2012 5:26:14 PM	4441
Iron	13000	370	500		mg/Kg	500	10/25/2012 5:31:45 PM	4441
Lead	2.8	0.44	0.50		mg/Kg	2	10/25/2012 5:26:14 PM	4441
Manganese	550	0.42	2.0		mg/Kg	20	10/25/2012 5:29:06 PM	4441
Nickel	6.5	0.33	1.0		mg/Kg	2	10/25/2012 5:26:14 PM	4441
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 5:26:14 PM	4441
Silver	ND	0.18	1.2		mg/Kg	5	10/31/2012 1:29:43 PM	4441
Vanadium	18	0.11	5.0		mg/Kg	2	10/25/2012 5:26:14 PM	4441
Zinc	25	2.0	5.0		mg/Kg	2	10/25/2012 5:26:14 PM	4441

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

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

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Company**Client Sample ID:** SWMU 1-21 (0-0.5')**Project:** SWMU NO.1**Collection Date:** 10/16/2012 11:05:00 AM**Lab ID:** 1210858-004C**Matrix:** Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 5:39:12 PM	4441
Arsenic	2.1	1.3	5.0	J	mg/Kg	2	10/25/2012 5:39:12 PM	4441
Barium	440	1.2	2.0		mg/Kg	20	10/25/2012 5:42:05 PM	4441
Beryllium	0.77	0.019	0.30		mg/Kg	2	10/25/2012 5:39:12 PM	4441
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 5:39:12 PM	4441
Chromium	9.9	0.24	0.60		mg/Kg	2	10/25/2012 5:39:12 PM	4441
Cobalt	4.1	0.14	0.60		mg/Kg	2	10/25/2012 5:39:12 PM	4441
Iron	14000	370	500		mg/Kg	500	10/25/2012 5:44:46 PM	4441
Lead	2.6	0.44	0.50		mg/Kg	2	10/25/2012 5:39:12 PM	4441
Manganese	450	0.42	2.0		mg/Kg	20	10/25/2012 5:42:05 PM	4441
Nickel	7.5	0.33	1.0		mg/Kg	2	10/25/2012 5:39:12 PM	4441
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 5:39:12 PM	4441
Silver	ND	0.071	0.50		mg/Kg	2	10/31/2012 1:44:15 PM	4441
Vanadium	19	0.11	5.0		mg/Kg	2	10/25/2012 5:39:12 PM	4441
Zinc	17	2.0	5.0		mg/Kg	2	10/25/2012 5:39:12 PM	4441

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210858-005C

Client Sample ID: SWMU 1-21 (0-0.5') DUP
Collection Date: 10/16/2012 11:05:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 6:01:03 PM	4441
Arsenic	2.6	1.3	5.0	J	mg/Kg	2	10/25/2012 6:01:03 PM	4441
Barium	290	1.2	2.0		mg/Kg	20	10/25/2012 6:03:57 PM	4441
Beryllium	0.89	0.019	0.30		mg/Kg	2	10/25/2012 6:01:03 PM	4441
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 6:01:03 PM	4441
Chromium	11	0.24	0.60		mg/Kg	2	10/25/2012 6:01:03 PM	4441
Cobalt	4.5	0.14	0.60		mg/Kg	2	10/25/2012 6:01:03 PM	4441
Iron	17000	370	500		mg/Kg	500	10/31/2012 1:51:45 PM	4441
Lead	2.3	0.44	0.50		mg/Kg	2	10/25/2012 6:01:03 PM	4441
Manganese	470	0.42	2.0		mg/Kg	20	10/25/2012 6:03:57 PM	4441
Nickel	8.4	0.33	1.0		mg/Kg	2	10/25/2012 6:01:03 PM	4441
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 6:01:03 PM	4441
Silver	ND	0.071	0.50		mg/Kg	2	10/31/2012 1:47:07 PM	4441
Vanadium	22	0.11	5.0		mg/Kg	2	10/25/2012 6:01:03 PM	4441
Zinc	18	2.0	5.0		mg/Kg	2	10/25/2012 6:01:03 PM	4441

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/14/2012

CLIENT: Western Refining Company

Client Sample ID: SWMU 1-22 (0-0.5')

Project: SWMU NO.1

Collection Date: 10/16/2012 11:35:00 AM

Lab ID: 1210858-006C

Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 6:14:12 PM	4441
Arsenic	3.5	1.3	5.0	J	mg/Kg	2	10/25/2012 6:14:12 PM	4441
Barium	590	1.2	2.0		mg/Kg	20	10/25/2012 6:17:18 PM	4441
Beryllium	0.89	0.019	0.30		mg/Kg	2	10/25/2012 6:14:12 PM	4441
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 6:14:12 PM	4441
Chromium	14	0.24	0.60		mg/Kg	2	10/25/2012 6:14:12 PM	4441
Cobalt	5.3	0.14	0.60		mg/Kg	2	10/25/2012 6:14:12 PM	4441
Iron	22000	370	500		mg/Kg	500	10/31/2012 1:57:31 PM	4441
Lead	3.5	0.44	0.50		mg/Kg	2	10/25/2012 6:14:12 PM	4441
Manganese	530	0.42	2.0		mg/Kg	20	10/25/2012 6:17:18 PM	4441
Nickel	8.6	0.33	1.0		mg/Kg	2	10/25/2012 6:14:12 PM	4441
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 6:14:12 PM	4441
Silver	ND	0.071	0.50		mg/Kg	2	10/31/2012 1:54:36 PM	4441
Vanadium	27	0.11	5.0		mg/Kg	2	10/25/2012 6:14:12 PM	4441
Zinc	26	2.0	5.0		mg/Kg	2	10/25/2012 6:14:12 PM	4441

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210858-007C

Client Sample ID: SWMU 1-22 (1.5-2')
Collection Date: 10/16/2012 11:45:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 6:25:49 PM	4441
Arsenic	1.9	1.3	5.0	J	mg/Kg	2	10/25/2012 6:25:49 PM	4441
Barium	500	1.2	2.0		mg/Kg	20	10/25/2012 6:28:40 PM	4441
Beryllium	0.69	0.019	0.30		mg/Kg	2	10/25/2012 6:25:49 PM	4441
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 6:25:49 PM	4441
Chromium	9.8	0.24	0.60		mg/Kg	2	10/25/2012 6:25:49 PM	4441
Cobalt	3.8	0.14	0.60		mg/Kg	2	10/25/2012 6:25:49 PM	4441
Iron	14000	370	500		mg/Kg	500	10/31/2012 2:03:13 PM	4441
Lead	2.4	0.44	0.50		mg/Kg	2	10/25/2012 6:25:49 PM	4441
Manganese	330	0.42	2.0		mg/Kg	20	10/25/2012 6:28:40 PM	4441
Nickel	6.9	0.33	1.0		mg/Kg	2	10/25/2012 6:25:49 PM	4441
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 6:25:49 PM	4441
Silver	ND	0.071	0.50		mg/Kg	2	10/31/2012 2:00:20 PM	4441
Vanadium	18	0.11	5.0		mg/Kg	2	10/25/2012 6:25:49 PM	4441
Zinc	15	2.0	5.0		mg/Kg	2	10/25/2012 6:25:49 PM	4441

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210859-001C

Client Sample ID: SWMU 1-23 (0-0.5')
Collection Date: 10/16/2012 12:10:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 6:49:19 PM	4441
Arsenic	2.7	1.3	5.0	J	mg/Kg	2	10/25/2012 6:49:19 PM	4441
Barium	670	1.2	2.0		mg/Kg	20	10/25/2012 6:52:13 PM	4441
Beryllium	0.69	0.019	0.30		mg/Kg	2	10/25/2012 6:49:19 PM	4441
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 6:49:19 PM	4441
Chromium	16	0.24	0.60		mg/Kg	2	10/25/2012 6:49:19 PM	4441
Cobalt	4.0	0.14	0.60		mg/Kg	2	10/25/2012 6:49:19 PM	4441
Iron	14000	370	500		mg/Kg	500	10/31/2012 2:08:56 PM	4441
Lead	3.0	0.44	0.50		mg/Kg	2	10/25/2012 6:49:19 PM	4441
Manganese	980	0.42	2.0		mg/Kg	20	10/25/2012 6:52:13 PM	4441
Nickel	7.9	0.33	1.0		mg/Kg	2	10/25/2012 6:49:19 PM	4441
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 6:49:19 PM	4441
Silver	ND	0.071	0.50		mg/Kg	2	10/31/2012 2:06:02 PM	4441
Vanadium	19	0.11	5.0		mg/Kg	2	10/25/2012 6:49:19 PM	4441
Zinc	21	2.0	5.0		mg/Kg	2	10/25/2012 6:49:19 PM	4441

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210859-002C

Client Sample ID: SWMU 1-39 (0-0.5')
Collection Date: 10/16/2012 12:35:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 7:00:48 PM	4441
Arsenic	ND	1.3	5.0		mg/Kg	2	10/25/2012 7:00:48 PM	4441
Barium	450	1.2	2.0		mg/Kg	20	10/25/2012 7:03:53 PM	4441
Beryllium	0.71	0.019	0.30		mg/Kg	2	10/25/2012 7:00:48 PM	4441
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 7:00:48 PM	4441
Chromium	10	0.24	0.60		mg/Kg	2	10/25/2012 7:00:48 PM	4441
Cobalt	3.9	0.14	0.60		mg/Kg	2	10/25/2012 7:00:48 PM	4441
Iron	18000	370	500		mg/Kg	500	10/31/2012 2:26:50 PM	4441
Lead	4.6	0.44	0.50		mg/Kg	2	10/25/2012 7:00:48 PM	4441
Manganese	580	0.42	2.0		mg/Kg	20	10/25/2012 7:03:53 PM	4441
Nickel	6.2	0.33	1.0		mg/Kg	2	10/25/2012 7:00:48 PM	4441
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 7:00:48 PM	4441
Silver	ND	0.071	0.50		mg/Kg	2	10/31/2012 2:11:46 PM	4441
Vanadium	25	0.11	5.0		mg/Kg	2	10/25/2012 7:00:48 PM	4441
Zinc	16	2.0	5.0		mg/Kg	2	10/25/2012 7:00:48 PM	4441

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/14/2012

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210859-003C

Client Sample ID: SWMU 1-25 (0-0.5')
Collection Date: 10/16/2012 1:00:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 7:24:44 PM	4441
Arsenic	3.7	1.3	5.0	J	mg/Kg	2	10/25/2012 7:24:44 PM	4441
Barium	370	1.2	2.0		mg/Kg	20	10/25/2012 7:27:51 PM	4441
Beryllium	0.53	0.019	0.30		mg/Kg	2	10/25/2012 7:24:44 PM	4441
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 7:24:44 PM	4441
Chromium	14	0.24	0.60		mg/Kg	2	10/25/2012 7:24:44 PM	4441
Cobalt	3.2	0.14	0.60		mg/Kg	2	10/25/2012 7:24:44 PM	4441
Iron	11000	370	500		mg/Kg	500	10/25/2012 7:30:37 PM	4441
Lead	5.6	0.44	0.50		mg/Kg	2	10/25/2012 7:24:44 PM	4441
Manganese	310	0.42	2.0		mg/Kg	20	10/25/2012 7:27:51 PM	4441
Nickel	8.6	0.33	1.0		mg/Kg	2	10/25/2012 7:24:44 PM	4441
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 7:24:44 PM	4441
Silver	ND	0.035	0.25		mg/Kg	1	10/31/2012 2:29:39 PM	4441
Vanadium	21	0.11	5.0		mg/Kg	2	10/25/2012 7:24:44 PM	4441
Zinc	27	2.0	5.0		mg/Kg	2	10/25/2012 7:24:44 PM	4441

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/14/2012

CLIENT: Western Refining Company

Client Sample ID: SWMU 1-25 (0.5-1')

Project: SWMU NO.1

Collection Date: 10/16/2012 1:15:00 PM

Lab ID: 1210859-004C

Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 7:36:32 PM	4441
Arsenic	3.7	1.3	5.0	J	mg/Kg	2	10/25/2012 7:36:32 PM	4441
Barium	360	1.2	2.0		mg/Kg	20	10/25/2012 7:39:34 PM	4441
Beryllium	0.45	0.019	0.30		mg/Kg	2	10/25/2012 7:36:32 PM	4441
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 7:36:32 PM	4441
Chromium	12	0.24	0.60		mg/Kg	2	10/25/2012 7:36:32 PM	4441
Cobalt	4.3	0.14	0.60		mg/Kg	2	10/25/2012 7:36:32 PM	4441
Iron	10000	370	500		mg/Kg	500	10/25/2012 7:42:20 PM	4441
Lead	4.1	0.44	0.50		mg/Kg	2	10/25/2012 7:36:32 PM	4441
Manganese	270	0.42	2.0		mg/Kg	20	10/25/2012 7:39:34 PM	4441
Nickel	9.8	0.33	1.0		mg/Kg	2	10/25/2012 7:36:32 PM	4441
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 7:36:32 PM	4441
Silver	ND	0.071	0.50		mg/Kg	2	10/31/2012 2:32:45 PM	4441
Vanadium	20	0.11	5.0		mg/Kg	2	10/25/2012 7:36:32 PM	4441
Zinc	28	2.0	5.0		mg/Kg	2	10/25/2012 7:36:32 PM	4441

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210859-005C

Client Sample ID: SWMU 1-26 (0-0.5')
Collection Date: 10/16/2012 1:35:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 7:48:02 PM	4441
Arsenic	1.5	1.3	5.0	J	mg/Kg	2	10/25/2012 7:48:02 PM	4441
Barium	390	1.2	2.0		mg/Kg	20	10/25/2012 7:50:55 PM	4441
Beryllium	0.62	0.019	0.30		mg/Kg	2	10/25/2012 7:48:02 PM	4441
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 7:48:02 PM	4441
Chromium	7.9	0.24	0.60		mg/Kg	2	10/25/2012 7:48:02 PM	4441
Cobalt	3.7	0.14	0.60		mg/Kg	2	10/25/2012 7:48:02 PM	4441
Iron	11000	370	500		mg/Kg	500	10/25/2012 8:05:04 PM	4441
Lead	2.7	0.44	0.50		mg/Kg	2	10/25/2012 7:48:02 PM	4441
Manganese	670	0.42	2.0		mg/Kg	20	10/25/2012 7:50:55 PM	4441
Nickel	6.1	0.33	1.0		mg/Kg	2	10/25/2012 7:48:02 PM	4441
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 7:48:02 PM	4441
Silver	ND	0.071	0.50		mg/Kg	2	10/31/2012 2:35:55 PM	4441
Vanadium	14	0.11	5.0		mg/Kg	2	10/25/2012 7:48:02 PM	4441
Zinc	16	2.0	5.0		mg/Kg	2	10/25/2012 7:48:02 PM	4441

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

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

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Company**Client Sample ID:** SWMU 1-29 (0-0.5')**Project:** SWMU NO.1**Collection Date:** 10/16/2012 2:40:00 PM**Lab ID:** 1210859-006C**Matrix:** Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: JLF	
Antimony	ND	1.3	5.0		mg/Kg	2	10/25/2012 8:10:53 PM	4441
Arsenic	2.3	1.3	5.0	J	mg/Kg	2	10/25/2012 8:10:53 PM	4441
Barium	550	1.2	2.0		mg/Kg	20	10/25/2012 8:13:48 PM	4441
Beryllium	0.69	0.019	0.30		mg/Kg	2	10/25/2012 8:10:53 PM	4441
Cadmium	ND	0.054	0.20		mg/Kg	2	10/25/2012 8:10:53 PM	4441
Chromium	17	0.24	0.60		mg/Kg	2	10/25/2012 8:10:53 PM	4441
Cobalt	5.1	0.14	0.60		mg/Kg	2	10/25/2012 8:10:53 PM	4441
Iron	15000	370	500		mg/Kg	500	10/25/2012 8:16:27 PM	4441
Lead	7.0	0.44	0.50		mg/Kg	2	10/25/2012 8:10:53 PM	4441
Manganese	620	0.42	2.0		mg/Kg	20	10/25/2012 8:13:48 PM	4441
Nickel	9.3	0.33	1.0		mg/Kg	2	10/25/2012 8:10:53 PM	4441
Selenium	ND	2.8	5.0		mg/Kg	2	10/25/2012 8:10:53 PM	4441
Silver	ND	0.071	0.50		mg/Kg	2	10/31/2012 2:38:49 PM	4441
Vanadium	19	0.11	5.0		mg/Kg	2	10/25/2012 8:10:53 PM	4441
Zinc	48	2.0	5.0		mg/Kg	2	10/25/2012 8:10:53 PM	4441

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

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



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

November 14, 2012

Scott Crouch

Western Refining Southwest, Gallup

Rt. 3 Box 7

Gallup, NM 87301

TEL:

FAX

RE: SWMU NO.1

OrderNo.: 1210279

Dear Scott Crouch:

Hall Environmental Analysis Laboratory received 13 sample(s) on 10/4/2012 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued October 29, 2012.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (6-8")

Project: SWMU NO.1

Collection Date: 10/2/2012 10:00:00 AM

Lab ID: 1210279-001

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/7/2012 12:39:13 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/7/2012 12:39:13 AM
Surr: DNOP	89.9	77.6-140		%REC	1	10/7/2012 12:39:13 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 3:27:07 AM
Surr: BFB	102	84-116		%REC	1	10/6/2012 3:27:07 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 10:23:08 AM
EPA METHOD 6010B: SOIL METALS						Analyst: ELS
Antimony	ND	5.0		mg/Kg	2	10/17/2012 10:26:45 AM
Arsenic	ND	5.0		mg/Kg	2	10/17/2012 10:26:45 AM
Barium	39	0.20		mg/Kg	2	10/17/2012 10:26:45 AM
Beryllium	0.61	0.30		mg/Kg	2	10/17/2012 10:26:45 AM
Cadmium	ND	0.20		mg/Kg	2	10/17/2012 10:26:45 AM
Chromium	8.1	0.60		mg/Kg	2	10/17/2012 10:26:45 AM
Cobalt	3.9	0.60		mg/Kg	2	10/17/2012 10:26:45 AM
Iron	12000	500		mg/Kg	500	10/17/2012 12:52:55 PM
Lead	3.5	0.50		mg/Kg	2	10/17/2012 10:26:45 AM
Manganese	230	0.50		mg/Kg	5	10/17/2012 12:50:30 PM
Nickel	6.0	1.0		mg/Kg	2	10/17/2012 10:26:45 AM
Selenium	ND	5.0		mg/Kg	2	10/23/2012 6:37:37 PM
Silver	ND	0.50		mg/Kg	2	10/17/2012 10:26:45 AM
Vanadium	16	5.0		mg/Kg	2	10/17/2012 10:26:45 AM
Zinc	16	5.0		mg/Kg	2	10/17/2012 10:26:45 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Benzoic acid	ND	0.50		mg/Kg	1	10/9/2012 1:19:59 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (6-8')

Project: SWMU NO.1

Collection Date: 10/2/2012 10:00:00 AM

Lab ID: 1210279-001

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/9/2012 1:19:59 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 1:19:59 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/9/2012 1:19:59 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 1:19:59 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/9/2012 1:19:59 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 1:19:59 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 1:19:59 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 1:19:59 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/9/2012 1:19:59 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 1:19:59 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 1:19:59 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 1:19:59 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 1:19:59 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Isophorone	ND	0.50		mg/Kg	1	10/9/2012 1:19:59 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
2-Methylphenol	ND	0.50		mg/Kg	1	10/9/2012 1:19:59 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (6-8")

Project: SWMU NO.1

Collection Date: 10/2/2012 10:00:00 AM

Lab ID: 1210279-001

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 1:19:59 PM
Nitrobenzene	ND	0.50		mg/Kg	1	10/9/2012 1:19:59 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 1:19:59 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 1:19:59 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Pyridine	ND	0.50		mg/Kg	1	10/9/2012 1:19:59 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 1:19:59 PM
Surr: 2,4,6-Tribromophenol	69.4	21.3-145		%REC	1	10/9/2012 1:19:59 PM
Surr: 2-Fluorobiphenyl	67.8	20-131		%REC	1	10/9/2012 1:19:59 PM
Surr: 2-Fluorophenol	70.2	11.9-130		%REC	1	10/9/2012 1:19:59 PM
Surr: 4-Terphenyl-d14	59.7	25.1-149		%REC	1	10/9/2012 1:19:59 PM
Surr: Nitrobenzene-d5	70.7	25.6-137		%REC	1	10/9/2012 1:19:59 PM
Surr: Phenol-d5	71.6	20.3-132		%REC	1	10/9/2012 1:19:59 PM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
Toluene	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
Naphthalene	ND	0.10		mg/Kg	1	10/10/2012 11:09:51 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 11:09:51 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 11:09:51 AM
Acetone	ND	0.75		mg/Kg	1	10/10/2012 11:09:51 AM
Bromobenzene	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
Bromoform	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
Bromomethane	ND	0.15		mg/Kg	1	10/10/2012 11:09:51 AM
2-Butanone	ND	0.50		mg/Kg	1	10/10/2012 11:09:51 AM
Carbon disulfide	ND	0.50		mg/Kg	1	10/10/2012 11:09:51 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	10/10/2012 11:09:51 AM
Chlorobenzene	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
Chloroethane	ND	0.10		mg/Kg	1	10/10/2012 11:09:51 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (6-8")

Project: SWMU NO.1

Collection Date: 10/2/2012 10:00:00 AM

Lab ID: 1210279-001

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Chloroform	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
Chloromethane	ND	0.15		mg/Kg	1	10/10/2012 11:09:51 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	10/10/2012 11:09:51 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
Dibromomethane	ND	0.10		mg/Kg	1	10/10/2012 11:09:51 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	10/10/2012 11:09:51 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	10/10/2012 11:09:51 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	10/10/2012 11:09:51 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	10/10/2012 11:09:51 AM
2-Hexanone	ND	0.50		mg/Kg	1	10/10/2012 11:09:51 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	10/10/2012 11:09:51 AM
Methylene chloride	ND	0.15		mg/Kg	1	10/10/2012 11:09:51 AM
n-Butylbenzene	ND	0.15		mg/Kg	1	10/10/2012 11:09:51 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
Styrene	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	10/10/2012 11:09:51 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	10/10/2012 11:09:51 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (6-8')

Project: SWMU NO.1

Collection Date: 10/2/2012 10:00:00 AM

Lab ID: 1210279-001

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Vinyl chloride	ND	0.050		mg/Kg	1	10/10/2012 11:09:51 AM
Xylenes, Total	ND	0.10		mg/Kg	1	10/10/2012 11:09:51 AM
Surr: 1,2-Dichloroethane-d4	91.3	70-130		%REC	1	10/10/2012 11:09:51 AM
Surr: 4-Bromofluorobenzene	72.3	70-130		%REC	1	10/10/2012 11:09:51 AM
Surr: Dibromofluoromethane	93.5	70-130		%REC	1	10/10/2012 11:09:51 AM
Surr: Toluene-d8	73.7	70-130		%REC	1	10/10/2012 11:09:51 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (10-11')

Project: SWMU NO.1

Collection Date: 10/2/2012 10:20:00 AM

Lab ID: 1210279-002

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/7/2012 1:04:03 AM
Motor Oil Range Organics (MRO)	ND	52		mg/Kg	1	10/7/2012 1:04:03 AM
Surr: DNOP	88.0	77.6-140		%REC	1	10/7/2012 1:04:03 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 3:55:52 AM
Surr: BFB	101	84-116		%REC	1	10/6/2012 3:55:52 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 10:25:42 AM
EPA METHOD 6010B: SOIL METALS						Analyst: ELS
Antimony	ND	5.0		mg/Kg	2	10/17/2012 10:31:47 AM
Arsenic	ND	5.0		mg/Kg	2	10/17/2012 10:31:47 AM
Barium	220	0.50		mg/Kg	5	10/17/2012 12:55:32 PM
Beryllium	0.74	0.30		mg/Kg	2	10/17/2012 10:31:47 AM
Cadmium	ND	0.20		mg/Kg	2	10/17/2012 10:31:47 AM
Chromium	6.0	0.60		mg/Kg	2	10/17/2012 10:31:47 AM
Cobalt	3.3	0.60		mg/Kg	2	10/17/2012 10:31:47 AM
Iron	11000	500		mg/Kg	500	10/17/2012 12:59:38 PM
Lead	3.9	0.50		mg/Kg	2	10/17/2012 10:31:47 AM
Manganese	310	1.0		mg/Kg	10	10/23/2012 6:42:27 PM
Nickel	5.6	1.0		mg/Kg	2	10/17/2012 10:31:47 AM
Selenium	ND	5.0		mg/Kg	2	10/23/2012 6:40:01 PM
Silver	ND	0.50		mg/Kg	2	10/17/2012 10:31:47 AM
Vanadium	12	5.0		mg/Kg	2	10/17/2012 10:31:47 AM
Zinc	13	5.0		mg/Kg	2	10/17/2012 10:31:47 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Benzoic acid	ND	0.50		mg/Kg	1	10/9/2012 3:20:37 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM

Qualifiers:

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- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (10-11')

Project: SWMU NO.1

Collection Date: 10/2/2012 10:20:00 AM

Lab ID: 1210279-002

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/9/2012 3:20:37 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 3:20:37 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/9/2012 3:20:37 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 3:20:37 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/9/2012 3:20:37 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 3:20:37 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 3:20:37 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 3:20:37 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/9/2012 3:20:37 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 3:20:37 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 3:20:37 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 3:20:37 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 3:20:37 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Isophorone	ND	0.50		mg/Kg	1	10/9/2012 3:20:37 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
2-Methylphenol	ND	0.50		mg/Kg	1	10/9/2012 3:20:37 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (10-11')

Project: SWMU NO.1

Collection Date: 10/2/2012 10:20:00 AM

Lab ID: 1210279-002

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 3:20:37 PM
Nitrobenzene	ND	0.50		mg/Kg	1	10/9/2012 3:20:37 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 3:20:37 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 3:20:37 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Pyridine	ND	0.50		mg/Kg	1	10/9/2012 3:20:37 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 3:20:37 PM
Surr: 2,4,6-Tribromophenol	63.6	21.3-145		%REC	1	10/9/2012 3:20:37 PM
Surr: 2-Fluorobiphenyl	52.6	20-131		%REC	1	10/9/2012 3:20:37 PM
Surr: 2-Fluorophenol	56.4	11.9-130		%REC	1	10/9/2012 3:20:37 PM
Surr: 4-Terphenyl-d14	54.0	25.1-149		%REC	1	10/9/2012 3:20:37 PM
Surr: Nitrobenzene-d5	57.1	25.6-137		%REC	1	10/9/2012 3:20:37 PM
Surr: Phenol-d5	61.4	20.3-132		%REC	1	10/9/2012 3:20:37 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
Toluene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
Ethylbenzene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
Xylenes, Total	ND	0.00232		mg/Kg	1	10/8/2012 5:18:58 PM
Methyl tert-butyl ether (MTBE)	0.00148	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
1,2,4-Trimethylbenzene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
1,3,5-Trimethylbenzene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
1,2-Dichloroethane (EDC)	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
1,2-Dibromoethane (EDB)	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
Naphthalene	ND	0.00232		mg/Kg	1	10/8/2012 5:18:58 PM
1-Methylnaphthalene	ND	0.00463		mg/Kg	1	10/8/2012 5:18:58 PM
2-Methylnaphthalene	ND	0.00463		mg/Kg	1	10/8/2012 5:18:58 PM
Acetone	0.0135	0.0116		mg/Kg	1	10/8/2012 5:18:58 PM
Bromobenzene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
Bromodichloromethane	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
Bromoform	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
Bromomethane	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
2-Butanone	ND	0.0116		mg/Kg	1	10/8/2012 5:18:58 PM
Carbon tetrachloride	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
Chlorobenzene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
Chloroethane	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (10-11')

Project: SWMU NO.1

Collection Date: 10/2/2012 10:20:00 AM

Lab ID: 1210279-002

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
Chloromethane	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
2-Chlorotoluene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
Carbon disulfide	ND	0.0116		mg/Kg	1	10/8/2012 5:18:58 PM
4-Chlorotoluene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
cis-1,2-DCE	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
cis-1,3-Dichloropropene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
1,2-Dibromo-3-chloropropane	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
Dibromochloromethane	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
Dibromomethane	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
1,2-Dichlorobenzene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
1,3-Dichlorobenzene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
1,4-Dichlorobenzene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
Dichlorodifluoromethane	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
1,1-Dichloroethane	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
1,1-Dichloroethene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
1,2-Dichloropropane	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
1,3-Dichloropropane	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
2,2-Dichloropropane	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
1,1-Dichloropropene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
Hexachlorobutadiene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
Isopropylbenzene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
4-Isopropyltoluene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
Methylene chloride	ND	0.00347		mg/Kg	1	10/8/2012 5:18:58 PM
n-Butylbenzene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
2-Hexanone	ND	0.0116		mg/Kg	1	10/8/2012 5:18:58 PM
n-Propylbenzene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
sec-Butylbenzene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
Styrene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
4-Methyl-2-pentanone	ND	0.0116		mg/Kg	1	10/8/2012 5:18:58 PM
tert-Butylbenzene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
1,1,1,2-Tetrachloroethane	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
1,1,2,2-Tetrachloroethane	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
Tetrachloroethene (PCE)	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
trans-1,2-DCE	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
trans-1,3-Dichloropropene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
1,2,3-Trichlorobenzene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
1,2,4-Trichlorobenzene	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
1,1,1-Trichloroethane	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
1,1,2-Trichloroethane	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
Trichloroethene (TCE)	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
Trichlorofluoromethane	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (10-11')

Project: SWMU NO.1

Collection Date: 10/2/2012 10:20:00 AM

Lab ID: 1210279-002

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
Vinyl chloride	ND	0.00116		mg/Kg	1	10/8/2012 5:18:58 PM
Surr: 1,2-Dichloroethane-d4	97.6	70-130		%REC	1	10/8/2012 5:18:58 PM
Surr: 4-Bromofluorobenzene	96.0	70-130		%REC	1	10/8/2012 5:18:58 PM
Surr: Dibromofluoromethane	106	70-130		%REC	1	10/8/2012 5:18:58 PM
Surr: Toluene-d8	86.7	70-130		%REC	1	10/8/2012 5:18:58 PM

Qualifiers:

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RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (14-16')

Project: SWMU NO.1

Collection Date: 10/2/2012 10:35:00 AM

Lab ID: 1210279-003

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/7/2012 1:28:43 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/7/2012 1:28:43 AM
Surr: DNOP	92.2	77.6-140		%REC	1	10/7/2012 1:28:43 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 4:24:34 AM
Surr: BFB	101	84-116		%REC	1	10/6/2012 4:24:34 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 10:27:28 AM
EPA METHOD 6010B: SOIL METALS						Analyst: ELS
Antimony	ND	5.0		mg/Kg	2	10/17/2012 10:36:49 AM
Arsenic	ND	5.0		mg/Kg	2	10/17/2012 10:36:49 AM
Barium	680	2.0		mg/Kg	20	10/23/2012 6:47:15 PM
Beryllium	0.58	0.30		mg/Kg	2	10/17/2012 10:36:49 AM
Cadmium	ND	0.20		mg/Kg	2	10/17/2012 10:36:49 AM
Chromium	6.3	0.60		mg/Kg	2	10/17/2012 10:36:49 AM
Cobalt	3.5	0.60		mg/Kg	2	10/17/2012 10:36:49 AM
Iron	12000	500		mg/Kg	500	10/17/2012 1:04:52 PM
Lead	3.5	0.50		mg/Kg	2	10/17/2012 10:36:49 AM
Manganese	360	1.0		mg/Kg	10	10/17/2012 1:02:29 PM
Nickel	5.7	1.0		mg/Kg	2	10/17/2012 10:36:49 AM
Selenium	ND	5.0		mg/Kg	2	10/23/2012 6:44:52 PM
Silver	ND	0.50		mg/Kg	2	10/17/2012 10:36:49 AM
Vanadium	13	5.0		mg/Kg	2	10/17/2012 10:36:49 AM
Zinc	13	5.0		mg/Kg	2	10/17/2012 10:36:49 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Benzoic acid	ND	0.50		mg/Kg	1	10/9/2012 3:50:57 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM

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- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (14-16')

Project: SWMU NO.1

Collection Date: 10/2/2012 10:35:00 AM

Lab ID: 1210279-003

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/9/2012 3:50:57 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 3:50:57 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/9/2012 3:50:57 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 3:50:57 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/9/2012 3:50:57 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 3:50:57 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 3:50:57 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 3:50:57 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/9/2012 3:50:57 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 3:50:57 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 3:50:57 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 3:50:57 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 3:50:57 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Isophorone	ND	0.50		mg/Kg	1	10/9/2012 3:50:57 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
2-Methylphenol	ND	0.50		mg/Kg	1	10/9/2012 3:50:57 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (14-16')

Project: SWMU NO.1

Collection Date: 10/2/2012 10:35:00 AM

Lab ID: 1210279-003

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 3:50:57 PM
Nitrobenzene	ND	0.50		mg/Kg	1	10/9/2012 3:50:57 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 3:50:57 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 3:50:57 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Pyridine	ND	0.50		mg/Kg	1	10/9/2012 3:50:57 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 3:50:57 PM
Surr: 2,4,6-Tribromophenol	82.4	21.3-145		%REC	1	10/9/2012 3:50:57 PM
Surr: 2-Fluorobiphenyl	73.6	20-131		%REC	1	10/9/2012 3:50:57 PM
Surr: 2-Fluorophenol	82.2	11.9-130		%REC	1	10/9/2012 3:50:57 PM
Surr: 4-Terphenyl-d14	66.7	25.1-149		%REC	1	10/9/2012 3:50:57 PM
Surr: Nitrobenzene-d5	76.7	25.6-137		%REC	1	10/9/2012 3:50:57 PM
Surr: Phenol-d5	80.8	20.3-132		%REC	1	10/9/2012 3:50:57 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	0.00194	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
Toluene	0.00151	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
Ethylbenzene	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
Xylenes, Total	ND	0.00242		mg/Kg	1	10/8/2012 5:50:15 PM
Methyl tert-butyl ether (MTBE)	0.00518	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
1,2,4-Trimethylbenzene	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
1,3,5-Trimethylbenzene	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
1,2-Dichloroethane (EDC)	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
1,2-Dibromoethane (EDB)	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
Naphthalene	ND	0.00242		mg/Kg	1	10/8/2012 5:50:15 PM
1-Methylnaphthalene	ND	0.00484		mg/Kg	1	10/8/2012 5:50:15 PM
2-Methylnaphthalene	ND	0.00484		mg/Kg	1	10/8/2012 5:50:15 PM
Acetone	0.0158	0.0121		mg/Kg	1	10/8/2012 5:50:15 PM
Bromobenzene	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
Bromodichloromethane	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
Bromoform	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
Bromomethane	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
2-Butanone	ND	0.0121		mg/Kg	1	10/8/2012 5:50:15 PM
Carbon tetrachloride	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
Chlorobenzene	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
Chloroethane	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (14-16')

Project: SWMU NO.1

Collection Date: 10/2/2012 10:35:00 AM

Lab ID: 1210279-003

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
Chloromethane	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
2-Chlorotoluene	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
Carbon disulfide	ND	0.0121		mg/Kg	1	10/8/2012 5:50:15 PM
4-Chlorotoluene	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
cis-1,2-DCE	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
cis-1,3-Dichloropropene	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
1,2-Dibromo-3-chloropropane	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
Dibromochloromethane	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
Dibromomethane	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
1,2-Dichlorobenzene	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
1,3-Dichlorobenzene	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
1,4-Dichlorobenzene	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
Dichlorodifluoromethane	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
1,1-Dichloroethane	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
1,1-Dichloroethene	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
1,2-Dichloropropane	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
1,3-Dichloropropane	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
2,2-Dichloropropane	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
1,1-Dichloropropene	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
Hexachlorobutadiene	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
Isopropylbenzene	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
4-Isopropyltoluene	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
Methylene chloride	ND	0.00363		mg/Kg	1	10/8/2012 5:50:15 PM
n-Butylbenzene	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
2-Hexanone	ND	0.0121		mg/Kg	1	10/8/2012 5:50:15 PM
n-Propylbenzene	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
sec-Butylbenzene	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
Styrene	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
4-Methyl-2-pentanone	ND	0.0121		mg/Kg	1	10/8/2012 5:50:15 PM
tert-Butylbenzene	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
1,1,1,2-Tetrachloroethane	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
1,1,2,2-Tetrachloroethane	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
Tetrachloroethene (PCE)	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
trans-1,2-DCE	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
trans-1,3-Dichloropropene	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
1,2,3-Trichlorobenzene	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
1,2,4-Trichlorobenzene	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
1,1,1-Trichloroethane	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
1,1,2-Trichloroethane	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
Trichloroethene (TCE)	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
Trichlorofluoromethane	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (14-16')

Project: SWMU NO.1

Collection Date: 10/2/2012 10:35:00 AM

Lab ID: 1210279-003

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
Vinyl chloride	ND	0.00121		mg/Kg	1	10/8/2012 5:50:15 PM
Surr: 1,2-Dichloroethane-d4	103	70-130		%REC	1	10/8/2012 5:50:15 PM
Surr: 4-Bromofluorobenzene	93.7	70-130		%REC	1	10/8/2012 5:50:15 PM
Surr: Dibromofluoromethane	103	70-130		%REC	1	10/8/2012 5:50:15 PM
Surr: Toluene-d8	101	70-130		%REC	1	10/8/2012 5:50:15 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (17-17.25')

Project: SWMU NO.1

Collection Date: 10/2/2012 10:50:00 AM

Lab ID: 1210279-004

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/7/2012 2:18:27 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/7/2012 2:18:27 AM
Surr: DNOP	91.6	77.6-140		%REC	1	10/7/2012 2:18:27 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 4:53:17 AM
Surr: BFB	107	84-116		%REC	1	10/6/2012 4:53:17 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 10:29:13 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	5.0		mg/Kg	2	10/23/2012 6:49:38 PM
Arsenic	ND	5.0		mg/Kg	2	10/17/2012 10:54:32 AM
Barium	180	0.50		mg/Kg	5	10/17/2012 1:07:31 PM
Beryllium	0.74	0.30		mg/Kg	2	10/17/2012 10:54:32 AM
Cadmium	ND	0.20		mg/Kg	2	10/17/2012 10:54:32 AM
Chromium	6.9	0.60		mg/Kg	2	10/17/2012 10:54:32 AM
Cobalt	3.8	0.60		mg/Kg	2	10/17/2012 10:54:32 AM
Iron	12000	500		mg/Kg	500	10/17/2012 1:09:55 PM
Lead	4.8	0.50		mg/Kg	2	10/17/2012 10:54:32 AM
Manganese	280	1.0		mg/Kg	10	10/23/2012 6:52:01 PM
Nickel	6.7	1.0		mg/Kg	2	10/17/2012 10:54:32 AM
Selenium	ND	5.0		mg/Kg	2	10/23/2012 6:49:38 PM
Silver	ND	0.50		mg/Kg	2	10/17/2012 10:54:32 AM
Vanadium	12	5.0		mg/Kg	2	10/17/2012 10:54:32 AM
Zinc	13	5.0		mg/Kg	2	10/17/2012 10:54:32 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Benzoic acid	ND	0.50		mg/Kg	1	10/9/2012 1:49:59 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
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- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (17-17.25')

Project: SWMU NO.1

Collection Date: 10/2/2012 10:50:00 AM

Lab ID: 1210279-004

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/9/2012 1:49:59 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 1:49:59 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/9/2012 1:49:59 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 1:49:59 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/9/2012 1:49:59 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 1:49:59 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 1:49:59 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 1:49:59 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/9/2012 1:49:59 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 1:49:59 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 1:49:59 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 1:49:59 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 1:49:59 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Isophorone	ND	0.50		mg/Kg	1	10/9/2012 1:49:59 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
2-Methylphenol	ND	0.50		mg/Kg	1	10/9/2012 1:49:59 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (17-17.25')

Project: SWMU NO.1

Collection Date: 10/2/2012 10:50:00 AM

Lab ID: 1210279-004

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 1:49:59 PM
Nitrobenzene	ND	0.50		mg/Kg	1	10/9/2012 1:49:59 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 1:49:59 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 1:49:59 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Pyridine	ND	0.50		mg/Kg	1	10/9/2012 1:49:59 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 1:49:59 PM
Surr: 2,4,6-Tribromophenol	67.7	21.3-145		%REC	1	10/9/2012 1:49:59 PM
Surr: 2-Fluorobiphenyl	58.6	20-131		%REC	1	10/9/2012 1:49:59 PM
Surr: 2-Fluorophenol	58.9	11.9-130		%REC	1	10/9/2012 1:49:59 PM
Surr: 4-Terphenyl-d14	56.4	25.1-149		%REC	1	10/9/2012 1:49:59 PM
Surr: Nitrobenzene-d5	57.7	25.6-137		%REC	1	10/9/2012 1:49:59 PM
Surr: Phenol-d5	62.4	20.3-132		%REC	1	10/9/2012 1:49:59 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	0.00139	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
Toluene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
Ethylbenzene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
Xylenes, Total	ND	0.00233		mg/Kg	1	10/8/2012 6:21:07 PM
Methyl tert-butyl ether (MTBE)	0.00412	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
1,2,4-Trimethylbenzene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
1,3,5-Trimethylbenzene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
1,2-Dichloroethane (EDC)	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
1,2-Dibromoethane (EDB)	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
Naphthalene	ND	0.00233		mg/Kg	1	10/8/2012 6:21:07 PM
1-Methylnaphthalene	ND	0.00466		mg/Kg	1	10/8/2012 6:21:07 PM
2-Methylnaphthalene	ND	0.00466		mg/Kg	1	10/8/2012 6:21:07 PM
Acetone	0.0877	0.0116		mg/Kg	1	10/8/2012 6:21:07 PM
Bromobenzene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
Bromodichloromethane	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
Bromoform	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
Bromomethane	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
2-Butanone	ND	0.0116		mg/Kg	1	10/8/2012 6:21:07 PM
Carbon tetrachloride	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
Chlorobenzene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
Chloroethane	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (17-17.25')

Project: SWMU NO.1

Collection Date: 10/2/2012 10:50:00 AM

Lab ID: 1210279-004

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
Chloromethane	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
2-Chlorotoluene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
Carbon disulfide	ND	0.0116		mg/Kg	1	10/8/2012 6:21:07 PM
4-Chlorotoluene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
cis-1,2-DCE	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
cis-1,3-Dichloropropene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
1,2-Dibromo-3-chloropropane	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
Dibromochloromethane	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
Dibromomethane	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
1,2-Dichlorobenzene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
1,3-Dichlorobenzene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
1,4-Dichlorobenzene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
Dichlorodifluoromethane	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
1,1-Dichloroethane	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
1,1-Dichloroethene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
1,2-Dichloropropane	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
1,3-Dichloropropane	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
2,2-Dichloropropane	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
1,1-Dichloropropene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
Hexachlorobutadiene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
Isopropylbenzene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
4-Isopropyltoluene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
Methylene chloride	ND	0.00349		mg/Kg	1	10/8/2012 6:21:07 PM
n-Butylbenzene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
2-Hexanone	ND	0.0116		mg/Kg	1	10/8/2012 6:21:07 PM
n-Propylbenzene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
sec-Butylbenzene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
Styrene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
4-Methyl-2-pentanone	ND	0.0116		mg/Kg	1	10/8/2012 6:21:07 PM
tert-Butylbenzene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
1,1,1,2-Tetrachloroethane	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
1,1,2,2-Tetrachloroethane	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
Tetrachloroethene (PCE)	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
trans-1,2-DCE	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
trans-1,3-Dichloropropene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
1,2,3-Trichlorobenzene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
1,2,4-Trichlorobenzene	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
1,1,1-Trichloroethane	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
1,1,2-Trichloroethane	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
Trichloroethene (TCE)	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
Trichlorofluoromethane	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (17-17.25')

Project: SWMU NO.1

Collection Date: 10/2/2012 10:50:00 AM

Lab ID: 1210279-004

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
Vinyl chloride	ND	0.00116		mg/Kg	1	10/8/2012 6:21:07 PM
Surr: 1,2-Dichloroethane-d4	101	70-130		%REC	1	10/8/2012 6:21:07 PM
Surr: 4-Bromofluorobenzene	88.6	70-130		%REC	1	10/8/2012 6:21:07 PM
Surr: Dibromofluoromethane	108	70-130		%REC	1	10/8/2012 6:21:07 PM
Surr: Toluene-d8	102	70-130		%REC	1	10/8/2012 6:21:07 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (19.5-20')

Project: SWMU NO.1

Collection Date: 10/2/2012 11:05:00 AM

Lab ID: 1210279-005

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/7/2012 2:43:18 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/7/2012 2:43:18 AM
Surr: DNOP	96.4	77.6-140		%REC	1	10/7/2012 2:43:18 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 5:21:59 AM
Surr: BFB	103	84-116		%REC	1	10/6/2012 5:21:59 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 10:45:02 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	5.0		mg/Kg	2	10/23/2012 7:01:34 PM
Arsenic	ND	5.0		mg/Kg	2	10/17/2012 10:59:42 AM
Barium	1300	5.0		mg/Kg	50	10/17/2012 1:23:06 PM
Beryllium	0.77	0.30		mg/Kg	2	10/17/2012 10:59:42 AM
Cadmium	ND	0.20		mg/Kg	2	10/17/2012 10:59:42 AM
Chromium	12	0.60		mg/Kg	2	10/17/2012 10:59:42 AM
Cobalt	11	0.60		mg/Kg	2	10/17/2012 10:59:42 AM
Iron	17000	500		mg/Kg	500	10/17/2012 1:25:32 PM
Lead	3.9	0.50		mg/Kg	2	10/17/2012 10:59:42 AM
Manganese	1200	5.0		mg/Kg	50	10/17/2012 1:23:06 PM
Nickel	16	1.0		mg/Kg	2	10/17/2012 10:59:42 AM
Selenium	ND	5.0		mg/Kg	2	10/23/2012 7:01:34 PM
Silver	ND	0.50		mg/Kg	2	10/17/2012 10:59:42 AM
Vanadium	14	5.0		mg/Kg	2	10/17/2012 10:59:42 AM
Zinc	30	5.0		mg/Kg	2	10/17/2012 10:59:42 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Benzoic acid	ND	0.50		mg/Kg	1	10/9/2012 4:21:18 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (19.5-20')

Project: SWMU NO.1

Collection Date: 10/2/2012 11:05:00 AM

Lab ID: 1210279-005

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/9/2012 4:21:18 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 4:21:18 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/9/2012 4:21:18 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 4:21:18 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/9/2012 4:21:18 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 4:21:18 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 4:21:18 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 4:21:18 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/9/2012 4:21:18 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 4:21:18 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 4:21:18 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 4:21:18 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 4:21:18 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Isophorone	ND	0.50		mg/Kg	1	10/9/2012 4:21:18 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
2-Methylphenol	ND	0.50		mg/Kg	1	10/9/2012 4:21:18 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM

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- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (19.5-20')

Project: SWMU NO.1

Collection Date: 10/2/2012 11:05:00 AM

Lab ID: 1210279-005

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 4:21:18 PM
Nitrobenzene	ND	0.50		mg/Kg	1	10/9/2012 4:21:18 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 4:21:18 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 4:21:18 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Pyridine	ND	0.50		mg/Kg	1	10/9/2012 4:21:18 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 4:21:18 PM
Surr: 2,4,6-Tribromophenol	51.4	21.3-145		%REC	1	10/9/2012 4:21:18 PM
Surr: 2-Fluorobiphenyl	45.6	20-131		%REC	1	10/9/2012 4:21:18 PM
Surr: 2-Fluorophenol	50.5	11.9-130		%REC	1	10/9/2012 4:21:18 PM
Surr: 4-Terphenyl-d14	46.4	25.1-149		%REC	1	10/9/2012 4:21:18 PM
Surr: Nitrobenzene-d5	44.5	25.6-137		%REC	1	10/9/2012 4:21:18 PM
Surr: Phenol-d5	53.8	20.3-132		%REC	1	10/9/2012 4:21:18 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	0.00395	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
Toluene	0.00333	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
Ethylbenzene	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
Xylenes, Total	0.00212	0.00208		mg/Kg	1	10/8/2012 6:51:59 PM
Methyl tert-butyl ether (MTBE)	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
1,2,4-Trimethylbenzene	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
1,3,5-Trimethylbenzene	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
1,2-Dichloroethane (EDC)	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
1,2-Dibromoethane (EDB)	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
Naphthalene	ND	0.00208		mg/Kg	1	10/8/2012 6:51:59 PM
1-Methylnaphthalene	ND	0.00416		mg/Kg	1	10/8/2012 6:51:59 PM
2-Methylnaphthalene	ND	0.00416		mg/Kg	1	10/8/2012 6:51:59 PM
Acetone	0.0127	0.0104		mg/Kg	1	10/8/2012 6:51:59 PM
Bromobenzene	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
Bromodichloromethane	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
Bromoform	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
Bromomethane	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
2-Butanone	ND	0.0104		mg/Kg	1	10/8/2012 6:51:59 PM
Carbon tetrachloride	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
Chlorobenzene	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
Chloroethane	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (19.5-20')

Project: SWMU NO.1

Collection Date: 10/2/2012 11:05:00 AM

Lab ID: 1210279-005

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
Chloromethane	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
2-Chlorotoluene	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
Carbon disulfide	ND	0.0104		mg/Kg	1	10/8/2012 6:51:59 PM
4-Chlorotoluene	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
cis-1,2-DCE	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
cis-1,3-Dichloropropene	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
1,2-Dibromo-3-chloropropane	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
Dibromochloromethane	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
Dibromomethane	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
1,2-Dichlorobenzene	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
1,3-Dichlorobenzene	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
1,4-Dichlorobenzene	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
Dichlorodifluoromethane	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
1,1-Dichloroethane	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
1,1-Dichloroethene	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
1,2-Dichloropropane	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
1,3-Dichloropropane	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
2,2-Dichloropropane	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
1,1-Dichloropropene	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
Hexachlorobutadiene	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
Isopropylbenzene	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
4-Isopropyltoluene	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
Methylene chloride	ND	0.00312		mg/Kg	1	10/8/2012 6:51:59 PM
n-Butylbenzene	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
2-Hexanone	ND	0.0104		mg/Kg	1	10/8/2012 6:51:59 PM
n-Propylbenzene	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
sec-Butylbenzene	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
Styrene	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
4-Methyl-2-pentanone	ND	0.0104		mg/Kg	1	10/8/2012 6:51:59 PM
tert-Butylbenzene	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
1,1,1,2-Tetrachloroethane	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
1,1,2,2-Tetrachloroethane	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
Tetrachloroethene (PCE)	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
trans-1,2-DCE	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
trans-1,3-Dichloropropene	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
1,2,3-Trichlorobenzene	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
1,2,4-Trichlorobenzene	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
1,1,1-Trichloroethane	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
1,1,2-Trichloroethane	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
Trichloroethene (TCE)	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
Trichlorofluoromethane	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 (19.5-20')

Project: SWMU NO.1

Collection Date: 10/2/2012 11:05:00 AM

Lab ID: 1210279-005

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
Vinyl chloride	ND	0.00104		mg/Kg	1	10/8/2012 6:51:59 PM
Surr: 1,2-Dichloroethane-d4	97.4	70-130		%REC	1	10/8/2012 6:51:59 PM
Surr: 4-Bromofluorobenzene	100	70-130		%REC	1	10/8/2012 6:51:59 PM
Surr: Dibromofluoromethane	93.8	70-130		%REC	1	10/8/2012 6:51:59 PM
Surr: Toluene-d8	92.9	70-130		%REC	1	10/8/2012 6:51:59 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 GW

Project: SWMU NO.1

Collection Date: 10/2/2012 1:45:00 PM

Lab ID: 1210279-006

Matrix: AQUEOUS

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	ND	2.0		mg/L	1	10/8/2012 11:04:25 AM
Motor Oil Range Organics (MRO)	ND	10		mg/L	1	10/8/2012 11:04:25 AM
Surr: DNOP	117	79.5-166		%REC	1	10/8/2012 11:04:25 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.71	0.25		mg/L	5	10/5/2012 5:49:08 PM
Surr: BFB	106	69.8-119		%REC	5	10/5/2012 5:49:08 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Fluoride	3.0	1.0		mg/L	10	10/4/2012 4:02:29 PM
Chloride	1600	100		mg/L	200	10/11/2012 12:55:50 AM
Sulfate	550	25		mg/L	50	10/4/2012 4:14:53 PM
EPA METHOD 200.7: METALS						Analyst: ELS
Barium	56	0.20	*	mg/L	20	10/12/2012 9:19:00 AM
Beryllium	0.21	0.050	*	mg/L	5	10/10/2012 8:05:38 PM
Cadmium	ND	0.050		mg/L	5	10/10/2012 8:05:38 PM
Chromium	0.31	0.15	*	mg/L	5	10/12/2012 9:15:42 AM
Cobalt	0.53	0.15		mg/L	5	10/10/2012 8:05:38 PM
Iron	140	5.0	*	mg/L	50	10/12/2012 10:14:03 AM
Manganese	95	0.20	*	mg/L	20	10/12/2012 9:19:00 AM
Nickel	0.95	0.25	*	mg/L	5	10/10/2012 8:05:38 PM
Silver	ND	0.12		mg/L	5	10/10/2012 8:05:38 PM
Vanadium	ND	1.2		mg/L	5	10/10/2012 8:05:38 PM
Zinc	1.1	0.25		mg/L	5	10/12/2012 9:15:42 AM
EPA 200.8: METALS						Analyst: DBD
Antimony	ND	0.012		mg/L	2.5	10/15/2012 5:42:26 PM
Arsenic	0.063	0.012	*	mg/L	2.5	10/15/2012 5:42:26 PM
Lead	1.7	0.050	*	mg/L	10	10/16/2012 6:06:18 PM
Selenium	0.059	0.050	*	mg/L	10	10/16/2012 6:06:18 PM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	0.00027	0.00020		mg/L	1	10/12/2012 5:11:45 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Acenaphthylene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Aniline	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Anthracene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Azobenzene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Benz(a)anthracene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Benzo(a)pyrene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	10/8/2012 6:59:51 PM

Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 GW

Project: SWMU NO.1

Collection Date: 10/2/2012 1:45:00 PM

Lab ID: 1210279-006

Matrix: AQUEOUS

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(k)fluoranthene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Benzoic acid	ND	20		µg/L	1	10/8/2012 6:59:51 PM
Benzyl alcohol	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	10/8/2012 6:59:51 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Butyl benzyl phthalate	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Carbazole	ND	10		µg/L	1	10/8/2012 6:59:51 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	10/8/2012 6:59:51 PM
4-Chloroaniline	ND	10		µg/L	1	10/8/2012 6:59:51 PM
2-Chloronaphthalene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
2-Chlorophenol	ND	10		µg/L	1	10/8/2012 6:59:51 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Chrysene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Di-n-butyl phthalate	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Di-n-octyl phthalate	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Dibenzofuran	ND	10		µg/L	1	10/8/2012 6:59:51 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Diethyl phthalate	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Dimethyl phthalate	ND	10		µg/L	1	10/8/2012 6:59:51 PM
2,4-Dichlorophenol	ND	20		µg/L	1	10/8/2012 6:59:51 PM
2,4-Dimethylphenol	26	10		µg/L	1	10/8/2012 6:59:51 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	10/8/2012 6:59:51 PM
2,4-Dinitrophenol	ND	20		µg/L	1	10/8/2012 6:59:51 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Fluoranthene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Fluorene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Hexachlorobenzene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Hexachlorobutadiene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Hexachloroethane	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Isophorone	ND	10		µg/L	1	10/8/2012 6:59:51 PM
1-Methylnaphthalene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
2-Methylnaphthalene	ND	10		µg/L	1	10/8/2012 6:59:51 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 GW

Project: SWMU NO.1

Collection Date: 10/2/2012 1:45:00 PM

Lab ID: 1210279-006

Matrix: AQUEOUS

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylphenol	ND	10		µg/L	1	10/8/2012 6:59:51 PM
3+4-Methylphenol	ND	10		µg/L	1	10/8/2012 6:59:51 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/8/2012 6:59:51 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	10/8/2012 6:59:51 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Naphthalene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
2-Nitroaniline	ND	10		µg/L	1	10/8/2012 6:59:51 PM
3-Nitroaniline	ND	10		µg/L	1	10/8/2012 6:59:51 PM
4-Nitroaniline	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Nitrobenzene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
2-Nitrophenol	ND	10		µg/L	1	10/8/2012 6:59:51 PM
4-Nitrophenol	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Pentachlorophenol	ND	20		µg/L	1	10/8/2012 6:59:51 PM
Phenanthrene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Phenol	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Pyrene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Pyridine	ND	10		µg/L	1	10/8/2012 6:59:51 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/8/2012 6:59:51 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	10/8/2012 6:59:51 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	10/8/2012 6:59:51 PM
Surr: 2,4,6-Tribromophenol	68.0	44.2-126		%REC	1	10/8/2012 6:59:51 PM
Surr: 2-Fluorobiphenyl	61.1	37-114		%REC	1	10/8/2012 6:59:51 PM
Surr: 2-Fluorophenol	49.4	23.4-98		%REC	1	10/8/2012 6:59:51 PM
Surr: 4-Terphenyl-d14	52.7	41.3-116		%REC	1	10/8/2012 6:59:51 PM
Surr: Nitrobenzene-d5	71.8	39.5-118		%REC	1	10/8/2012 6:59:51 PM
Surr: Phenol-d5	44.9	20.9-95.9		%REC	1	10/8/2012 6:59:51 PM
EPA METHOD 8260B: VOLATILES						Analyst: JDJ
Benzene	17	2.0		µg/L	2	10/4/2012 9:52:56 PM
Toluene	4.0	2.0		µg/L	2	10/4/2012 9:52:56 PM
Ethylbenzene	4.7	2.0		µg/L	2	10/4/2012 9:52:56 PM
Methyl tert-butyl ether (MTBE)	43	2.0		µg/L	2	10/4/2012 9:52:56 PM
1,2,4-Trimethylbenzene	10	2.0		µg/L	2	10/4/2012 9:52:56 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
1,2-Dichloroethane (EDC)	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
Naphthalene	ND	4.0		µg/L	2	10/4/2012 9:52:56 PM
1-Methylnaphthalene	ND	8.0		µg/L	2	10/4/2012 9:52:56 PM
2-Methylnaphthalene	ND	8.0		µg/L	2	10/4/2012 9:52:56 PM
Acetone	27	20		µg/L	2	10/4/2012 9:52:56 PM
Bromobenzene	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
Bromodichloromethane	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 GW

Project: SWMU NO.1

Collection Date: 10/2/2012 1:45:00 PM

Lab ID: 1210279-006

Matrix: AQUEOUS

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: JDJ
Bromoform	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
Bromomethane	ND	6.0		µg/L	2	10/4/2012 9:52:56 PM
2-Butanone	ND	20		µg/L	2	10/4/2012 9:52:56 PM
Carbon disulfide	ND	20		µg/L	2	10/4/2012 9:52:56 PM
Carbon Tetrachloride	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
Chlorobenzene	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
Chloroethane	ND	4.0		µg/L	2	10/4/2012 9:52:56 PM
Chloroform	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
Chloromethane	ND	6.0		µg/L	2	10/4/2012 9:52:56 PM
2-Chlorotoluene	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
4-Chlorotoluene	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
cis-1,2-DCE	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	10/4/2012 9:52:56 PM
Dibromochloromethane	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
Dibromomethane	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
Dichlorodifluoromethane	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
1,1-Dichloroethane	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
1,1-Dichloroethene	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
1,2-Dichloropropane	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
1,3-Dichloropropane	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
2,2-Dichloropropane	ND	4.0		µg/L	2	10/4/2012 9:52:56 PM
1,1-Dichloropropene	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
Hexachlorobutadiene	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
2-Hexanone	ND	20		µg/L	2	10/4/2012 9:52:56 PM
Isopropylbenzene	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
4-Isopropyltoluene	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
4-Methyl-2-pentanone	ND	20		µg/L	2	10/4/2012 9:52:56 PM
Methylene Chloride	ND	6.0		µg/L	2	10/4/2012 9:52:56 PM
n-Butylbenzene	ND	6.0		µg/L	2	10/4/2012 9:52:56 PM
n-Propylbenzene	2.7	2.0		µg/L	2	10/4/2012 9:52:56 PM
sec-Butylbenzene	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
Styrene	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
tert-Butylbenzene	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	10/4/2012 9:52:56 PM
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
trans-1,2-DCE	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 GW

Project: SWMU NO.1

Collection Date: 10/2/2012 1:45:00 PM

Lab ID: 1210279-006

Matrix: AQUEOUS

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: JDJ
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
Trichloroethene (TCE)	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
Trichlorofluoromethane	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
1,2,3-Trichloropropane	ND	4.0		µg/L	2	10/4/2012 9:52:56 PM
Vinyl chloride	ND	2.0		µg/L	2	10/4/2012 9:52:56 PM
Xylenes, Total	20	3.0		µg/L	2	10/4/2012 9:52:56 PM
Surr: 1,2-Dichloroethane-d4	97.2	70-130		%REC	2	10/4/2012 9:52:56 PM
Surr: 4-Bromofluorobenzene	108	70-130		%REC	2	10/4/2012 9:52:56 PM
Surr: Dibromofluoromethane	94.8	70-130		%REC	2	10/4/2012 9:52:56 PM
Surr: Toluene-d8	100	70-130		%REC	2	10/4/2012 9:52:56 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: TRIP BLANK

Project: SWMU NO.1

Collection Date:

Lab ID: 1210279-007

Matrix: TRIP BLANK

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: JDJ
Benzene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
Toluene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
Ethylbenzene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
Naphthalene	ND	2.0		µg/L	1	10/4/2012 10:51:26 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/4/2012 10:51:26 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/4/2012 10:51:26 PM
Acetone	ND	10		µg/L	1	10/4/2012 10:51:26 PM
Bromobenzene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
Bromoform	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
Bromomethane	ND	3.0		µg/L	1	10/4/2012 10:51:26 PM
2-Butanone	ND	10		µg/L	1	10/4/2012 10:51:26 PM
Carbon disulfide	ND	10		µg/L	1	10/4/2012 10:51:26 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
Chlorobenzene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
Chloroethane	ND	2.0		µg/L	1	10/4/2012 10:51:26 PM
Chloroform	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
Chloromethane	ND	3.0		µg/L	1	10/4/2012 10:51:26 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/4/2012 10:51:26 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
Dibromomethane	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/4/2012 10:51:26 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
2-Hexanone	ND	10		µg/L	1	10/4/2012 10:51:26 PM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: TRIP BLANK

Project: SWMU NO.1

Collection Date:

Lab ID: 1210279-007

Matrix: TRIP BLANK

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: JDJ
Isopropylbenzene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/4/2012 10:51:26 PM
Methylene Chloride	ND	3.0		µg/L	1	10/4/2012 10:51:26 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/4/2012 10:51:26 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
Styrene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/4/2012 10:51:26 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/4/2012 10:51:26 PM
Vinyl chloride	ND	1.0		µg/L	1	10/4/2012 10:51:26 PM
Xylenes, Total	ND	1.5		µg/L	1	10/4/2012 10:51:26 PM
Surr: 1,2-Dichloroethane-d4	91.6	70-130		%REC	1	10/4/2012 10:51:26 PM
Surr: 4-Bromofluorobenzene	106	70-130		%REC	1	10/4/2012 10:51:26 PM
Surr: Dibromofluoromethane	103	70-130		%REC	1	10/4/2012 10:51:26 PM
Surr: Toluene-d8	99.4	70-130		%REC	1	10/4/2012 10:51:26 PM

Qualifiers:

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- J Analyte detected below quantitation limits
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- RL Reporting Detection Limit

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- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (2-4')

Project: SWMU NO.1

Collection Date: 10/2/2012 4:20:00 PM

Lab ID: 1210279-008

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/7/2012 3:08:09 AM
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	10/7/2012 3:08:09 AM
Surr: DNOP	98.5	77.6-140		%REC	1	10/7/2012 3:08:09 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/5/2012 12:06:14 PM
Surr: BFB	99.4	84-116		%REC	1	10/5/2012 12:06:14 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 10:46:48 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	2.5		mg/Kg	1	10/23/2012 7:04:15 PM
Arsenic	ND	50		mg/Kg	20	10/17/2012 1:28:13 PM
Barium	770	2.0		mg/Kg	20	10/17/2012 1:28:13 PM
Beryllium	0.39	0.15		mg/Kg	1	10/17/2012 11:02:17 AM
Cadmium	ND	0.10		mg/Kg	1	10/17/2012 11:02:17 AM
Chromium	3.8	0.30		mg/Kg	1	10/17/2012 11:02:17 AM
Cobalt	2.4	0.30		mg/Kg	1	10/17/2012 11:02:17 AM
Iron	4800	200		mg/Kg	200	10/23/2012 7:09:43 PM
Lead	ND	0.25		mg/Kg	1	10/17/2012 11:02:17 AM
Manganese	340	2.0		mg/Kg	20	10/17/2012 1:28:13 PM
Nickel	3.8	0.50		mg/Kg	1	10/17/2012 11:02:17 AM
Selenium	ND	2.5		mg/Kg	1	10/23/2012 7:04:15 PM
Silver	ND	0.25		mg/Kg	1	10/17/2012 11:02:17 AM
Vanadium	11	2.5		mg/Kg	1	10/17/2012 11:02:17 AM
Zinc	9.1	2.5		mg/Kg	1	10/17/2012 11:02:17 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Benzoic acid	ND	0.50		mg/Kg	1	10/9/2012 4:51:45 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM

Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (2-4')

Project: SWMU NO.1

Collection Date: 10/2/2012 4:20:00 PM

Lab ID: 1210279-008

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/9/2012 4:51:45 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 4:51:45 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/9/2012 4:51:45 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 4:51:45 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/9/2012 4:51:45 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 4:51:45 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 4:51:45 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 4:51:45 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/9/2012 4:51:45 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 4:51:45 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 4:51:45 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 4:51:45 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 4:51:45 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Isophorone	ND	0.50		mg/Kg	1	10/9/2012 4:51:45 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
2-Methylphenol	ND	0.50		mg/Kg	1	10/9/2012 4:51:45 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (2-4")

Project: SWMU NO.1

Collection Date: 10/2/2012 4:20:00 PM

Lab ID: 1210279-008

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 4:51:45 PM
Nitrobenzene	ND	0.50		mg/Kg	1	10/9/2012 4:51:45 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 4:51:45 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 4:51:45 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Pyridine	ND	0.50		mg/Kg	1	10/9/2012 4:51:45 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 4:51:45 PM
Surr: 2,4,6-Tribromophenol	75.8	21.3-145		%REC	1	10/9/2012 4:51:45 PM
Surr: 2-Fluorobiphenyl	74.5	20-131		%REC	1	10/9/2012 4:51:45 PM
Surr: 2-Fluorophenol	83.5	11.9-130		%REC	1	10/9/2012 4:51:45 PM
Surr: 4-Terphenyl-d14	65.9	25.1-149		%REC	1	10/9/2012 4:51:45 PM
Surr: Nitrobenzene-d5	79.2	25.6-137		%REC	1	10/9/2012 4:51:45 PM
Surr: Phenol-d5	83.3	20.3-132		%REC	1	10/9/2012 4:51:45 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
Toluene	0.00187	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
Ethylbenzene	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
Xylenes, Total	ND	0.00209		mg/Kg	1	10/8/2012 7:22:49 PM
Methyl tert-butyl ether (MTBE)	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
1,2,4-Trimethylbenzene	0.00128	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
1,3,5-Trimethylbenzene	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
1,2-Dichloroethane (EDC)	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
1,2-Dibromoethane (EDB)	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
Naphthalene	ND	0.00209		mg/Kg	1	10/8/2012 7:22:49 PM
1-Methylnaphthalene	ND	0.00419		mg/Kg	1	10/8/2012 7:22:49 PM
2-Methylnaphthalene	ND	0.00419		mg/Kg	1	10/8/2012 7:22:49 PM
Acetone	0.0418	0.0105		mg/Kg	1	10/8/2012 7:22:49 PM
Bromobenzene	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
Bromodichloromethane	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
Bromoform	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
Bromomethane	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
2-Butanone	ND	0.0105		mg/Kg	1	10/8/2012 7:22:49 PM
Carbon tetrachloride	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
Chlorobenzene	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
Chloroethane	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (2-4')

Project: SWMU NO.1

Collection Date: 10/2/2012 4:20:00 PM

Lab ID: 1210279-008

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
Chloromethane	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
2-Chlorotoluene	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
Carbon disulfide	ND	0.0105		mg/Kg	1	10/8/2012 7:22:49 PM
4-Chlorotoluene	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
cis-1,2-DCE	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
cis-1,3-Dichloropropene	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
1,2-Dibromo-3-chloropropane	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
Dibromochloromethane	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
Dibromomethane	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
1,2-Dichlorobenzene	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
1,3-Dichlorobenzene	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
1,4-Dichlorobenzene	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
Dichlorodifluoromethane	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
1,1-Dichloroethane	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
1,1-Dichloroethene	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
1,2-Dichloropropane	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
1,3-Dichloropropane	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
2,2-Dichloropropane	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
1,1-Dichloropropene	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
Hexachlorobutadiene	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
Isopropylbenzene	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
4-Isopropyltoluene	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
Methylene chloride	ND	0.00314		mg/Kg	1	10/8/2012 7:22:49 PM
n-Butylbenzene	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
2-Hexanone	ND	0.0105		mg/Kg	1	10/8/2012 7:22:49 PM
n-Propylbenzene	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
sec-Butylbenzene	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
Styrene	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
4-Methyl-2-pentanone	ND	0.0105		mg/Kg	1	10/8/2012 7:22:49 PM
tert-Butylbenzene	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
1,1,1,2-Tetrachloroethane	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
1,1,2,2-Tetrachloroethane	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
Tetrachloroethene (PCE)	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
trans-1,2-DCE	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
trans-1,3-Dichloropropene	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
1,2,3-Trichlorobenzene	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
1,2,4-Trichlorobenzene	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
1,1,1-Trichloroethane	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
1,1,2-Trichloroethane	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
Trichloroethene (TCE)	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
Trichlorofluoromethane	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

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Project: SWMU NO.1

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Lab ID: 1210279-008

Matrix: SOIL

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Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
Vinyl chloride	ND	0.00105		mg/Kg	1	10/8/2012 7:22:49 PM
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	1	10/8/2012 7:22:49 PM
Surr: 4-Bromofluorobenzene	97.2	70-130		%REC	1	10/8/2012 7:22:49 PM
Surr: Dibromofluoromethane	104	70-130		%REC	1	10/8/2012 7:22:49 PM
Surr: Toluene-d8	98.3	70-130		%REC	1	10/8/2012 7:22:49 PM

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Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (10-11')

Project: SWMU NO.1

Collection Date: 10/2/2012 4:35:00 PM

Lab ID: 1210279-009

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/7/2012 3:32:59 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/7/2012 3:32:59 AM
Surr: DNOP	96.0	77.6-140		%REC	1	10/7/2012 3:32:59 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 5:50:42 AM
Surr: BFB	106	84-116		%REC	1	10/6/2012 5:50:42 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 10:55:48 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	5.0		mg/Kg	2	10/23/2012 7:12:19 PM
Arsenic	ND	5.0		mg/Kg	2	10/17/2012 11:09:52 AM
Barium	220	0.50		mg/Kg	5	10/17/2012 1:34:59 PM
Beryllium	0.72	0.30		mg/Kg	2	10/17/2012 11:09:52 AM
Cadmium	ND	0.20		mg/Kg	2	10/17/2012 11:09:52 AM
Chromium	7.6	0.60		mg/Kg	2	10/17/2012 11:09:52 AM
Cobalt	3.6	0.60		mg/Kg	2	10/17/2012 11:09:52 AM
Iron	11000	500		mg/Kg	500	10/17/2012 1:37:26 PM
Lead	3.4	0.50		mg/Kg	2	10/17/2012 11:09:52 AM
Manganese	420	1.0		mg/Kg	10	10/23/2012 7:14:46 PM
Nickel	5.7	1.0		mg/Kg	2	10/17/2012 11:09:52 AM
Selenium	ND	5.0		mg/Kg	2	10/23/2012 7:12:19 PM
Silver	ND	0.50		mg/Kg	2	10/17/2012 11:09:52 AM
Vanadium	15	5.0		mg/Kg	2	10/17/2012 11:09:52 AM
Zinc	11	5.0		mg/Kg	2	10/17/2012 11:09:52 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Benzoic acid	ND	0.51		mg/Kg	1	10/9/2012 2:20:03 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM

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Analytical Report

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CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (10-11')

Project: SWMU NO.1

Collection Date: 10/2/2012 4:35:00 PM

Lab ID: 1210279-009

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.51		mg/Kg	1	10/9/2012 2:20:03 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
4-Chloro-3-methylphenol	ND	0.51		mg/Kg	1	10/9/2012 2:20:03 PM
4-Chloroaniline	ND	0.51		mg/Kg	1	10/9/2012 2:20:03 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 2:20:03 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Di-n-butyl phthalate	ND	0.51		mg/Kg	1	10/9/2012 2:20:03 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 2:20:03 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 2:20:03 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
2,4-Dichlorophenol	ND	0.41		mg/Kg	1	10/9/2012 2:20:03 PM
2,4-Dimethylphenol	ND	0.31		mg/Kg	1	10/9/2012 2:20:03 PM
4,6-Dinitro-2-methylphenol	ND	0.51		mg/Kg	1	10/9/2012 2:20:03 PM
2,4-Dinitrophenol	ND	0.41		mg/Kg	1	10/9/2012 2:20:03 PM
2,4-Dinitrotoluene	ND	0.51		mg/Kg	1	10/9/2012 2:20:03 PM
2,6-Dinitrotoluene	ND	0.51		mg/Kg	1	10/9/2012 2:20:03 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Isophorone	ND	0.51		mg/Kg	1	10/9/2012 2:20:03 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
2-Methylphenol	ND	0.51		mg/Kg	1	10/9/2012 2:20:03 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM

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Lab ID: 1210279-009

Matrix: SOIL

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Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
4-Nitroaniline	ND	0.41		mg/Kg	1	10/9/2012 2:20:03 PM
Nitrobenzene	ND	0.51		mg/Kg	1	10/9/2012 2:20:03 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 2:20:03 PM
Pentachlorophenol	ND	0.41		mg/Kg	1	10/9/2012 2:20:03 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Pyridine	ND	0.51		mg/Kg	1	10/9/2012 2:20:03 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 2:20:03 PM
Surr: 2,4,6-Tribromophenol	86.8	21.3-145		%REC	1	10/9/2012 2:20:03 PM
Surr: 2-Fluorobiphenyl	81.7	20-131		%REC	1	10/9/2012 2:20:03 PM
Surr: 2-Fluorophenol	85.3	11.9-130		%REC	1	10/9/2012 2:20:03 PM
Surr: 4-Terphenyl-d14	71.9	25.1-149		%REC	1	10/9/2012 2:20:03 PM
Surr: Nitrobenzene-d5	79.7	25.6-137		%REC	1	10/9/2012 2:20:03 PM
Surr: Phenol-d5	84.0	20.3-132		%REC	1	10/9/2012 2:20:03 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Toluene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Ethylbenzene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Xylenes, Total	ND	0.00246		mg/Kg	1	10/8/2012 7:53:36 PM
Methyl tert-butyl ether (MTBE)	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
1,2,4-Trimethylbenzene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
1,3,5-Trimethylbenzene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
1,2-Dichloroethane (EDC)	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
1,2-Dibromoethane (EDB)	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Naphthalene	ND	0.00246		mg/Kg	1	10/8/2012 7:53:36 PM
1-Methylnaphthalene	ND	0.00492		mg/Kg	1	10/8/2012 7:53:36 PM
2-Methylnaphthalene	ND	0.00492		mg/Kg	1	10/8/2012 7:53:36 PM
Acetone	0.0190	0.0123		mg/Kg	1	10/8/2012 7:53:36 PM
Bromobenzene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Bromodichloromethane	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Bromoform	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Bromomethane	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
2-Butanone	ND	0.0123		mg/Kg	1	10/8/2012 7:53:36 PM
Carbon tetrachloride	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Chlorobenzene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Chloroethane	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM

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Received Date: 10/4/2012 8:00:00 AM

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METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Chloromethane	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
2-Chlorotoluene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Carbon disulfide	ND	0.0123		mg/Kg	1	10/8/2012 7:53:36 PM
4-Chlorotoluene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
cis-1,2-DCE	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
cis-1,3-Dichloropropene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
1,2-Dibromo-3-chloropropane	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Dibromochloromethane	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Dibromomethane	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
1,2-Dichlorobenzene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
1,3-Dichlorobenzene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
1,4-Dichlorobenzene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Dichlorodifluoromethane	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
1,1-Dichloroethane	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
1,1-Dichloroethene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
1,2-Dichloropropane	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
1,3-Dichloropropane	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
2,2-Dichloropropane	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
1,1-Dichloropropene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Hexachlorobutadiene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Isopropylbenzene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
4-Isopropyltoluene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Methylene chloride	ND	0.00369		mg/Kg	1	10/8/2012 7:53:36 PM
n-Butylbenzene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
2-Hexanone	ND	0.0123		mg/Kg	1	10/8/2012 7:53:36 PM
n-Propylbenzene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
sec-Butylbenzene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Styrene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
4-Methyl-2-pentanone	ND	0.0123		mg/Kg	1	10/8/2012 7:53:36 PM
tert-Butylbenzene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
1,1,1,2-Tetrachloroethane	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
1,1,2,2-Tetrachloroethane	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Tetrachloroethene (PCE)	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
trans-1,2-DCE	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
trans-1,3-Dichloropropene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
1,2,3-Trichlorobenzene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
1,2,4-Trichlorobenzene	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
1,1,1-Trichloroethane	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
1,1,2-Trichloroethane	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Trichloroethene (TCE)	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Trichlorofluoromethane	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (10-11')

Project: SWMU NO.1

Collection Date: 10/2/2012 4:35:00 PM

Lab ID: 1210279-009

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Vinyl chloride	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Surr: 1,2-Dichloroethane-d4	99.2	70-130		%REC	1	10/8/2012 7:53:36 PM
Surr: 4-Bromofluorobenzene	88.1	70-130		%REC	1	10/8/2012 7:53:36 PM
Surr: Dibromofluoromethane	100	70-130		%REC	1	10/8/2012 7:53:36 PM
Surr: Toluene-d8	92.4	70-130		%REC	1	10/8/2012 7:53:36 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (11-11.25')

Project: SWMU NO.1

Collection Date: 10/2/2012 4:50:00 PM

Lab ID: 1210279-010

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/7/2012 3:57:50 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/7/2012 3:57:50 AM
Surr: DNOP	94.7	77.6-140		%REC	1	10/7/2012 3:57:50 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/5/2012 12:35:00 PM
Surr: BFB	99.5	84-116		%REC	1	10/5/2012 12:35:00 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 10:57:38 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	5.0		mg/Kg	2	10/23/2012 7:17:10 PM
Arsenic	ND	5.0		mg/Kg	2	10/17/2012 11:16:34 AM
Barium	110	0.50		mg/Kg	5	10/17/2012 1:40:18 PM
Beryllium	0.63	0.30		mg/Kg	2	10/17/2012 11:16:34 AM
Cadmium	ND	0.20		mg/Kg	2	10/17/2012 11:16:34 AM
Chromium	4.8	0.60		mg/Kg	2	10/17/2012 11:16:34 AM
Cobalt	3.2	0.60		mg/Kg	2	10/17/2012 11:16:34 AM
Iron	10000	500		mg/Kg	500	10/17/2012 1:42:41 PM
Lead	4.0	0.50		mg/Kg	2	10/17/2012 11:16:34 AM
Manganese	380	1.0		mg/Kg	10	10/23/2012 7:19:37 PM
Nickel	5.0	1.0		mg/Kg	2	10/17/2012 11:16:34 AM
Selenium	ND	5.0		mg/Kg	2	10/23/2012 7:17:10 PM
Silver	ND	0.50		mg/Kg	2	10/17/2012 11:16:34 AM
Vanadium	10	5.0		mg/Kg	2	10/17/2012 11:16:34 AM
Zinc	10	5.0		mg/Kg	2	10/17/2012 11:16:34 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Benzoic acid	ND	0.50		mg/Kg	1	10/9/2012 2:50:19 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (11-11.25')

Project: SWMU NO.1

Collection Date: 10/2/2012 4:50:00 PM

Lab ID: 1210279-010

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/9/2012 2:50:19 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 2:50:19 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/9/2012 2:50:19 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 2:50:19 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/9/2012 2:50:19 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 2:50:19 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 2:50:19 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 2:50:19 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/9/2012 2:50:19 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 2:50:19 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 2:50:19 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 2:50:19 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 2:50:19 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Isophorone	ND	0.50		mg/Kg	1	10/9/2012 2:50:19 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
2-Methylphenol	ND	0.50		mg/Kg	1	10/9/2012 2:50:19 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (11-11.25')

Project: SWMU NO.1

Collection Date: 10/2/2012 4:50:00 PM

Lab ID: 1210279-010

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 2:50:19 PM
Nitrobenzene	ND	0.50		mg/Kg	1	10/9/2012 2:50:19 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 2:50:19 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 2:50:19 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Pyridine	ND	0.50		mg/Kg	1	10/9/2012 2:50:19 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Surr: 2,4,6-Tribromophenol	83.8	21.3-145		%REC	1	10/9/2012 2:50:19 PM
Surr: 2-Fluorobiphenyl	76.6	20-131		%REC	1	10/9/2012 2:50:19 PM
Surr: 2-Fluorophenol	73.1	11.9-130		%REC	1	10/9/2012 2:50:19 PM
Surr: 4-Terphenyl-d14	66.9	25.1-149		%REC	1	10/9/2012 2:50:19 PM
Surr: Nitrobenzene-d5	73.7	25.6-137		%REC	1	10/9/2012 2:50:19 PM
Surr: Phenol-d5	77.1	20.3-132		%REC	1	10/9/2012 2:50:19 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Toluene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Ethylbenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Xylenes, Total	ND	0.00217		mg/Kg	1	10/8/2012 8:24:25 PM
Methyl tert-butyl ether (MTBE)	0.00115	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,2,4-Trimethylbenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,3,5-Trimethylbenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,2-Dichloroethane (EDC)	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,2-Dibromoethane (EDB)	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Naphthalene	ND	0.00217		mg/Kg	1	10/8/2012 8:24:25 PM
1-Methylnaphthalene	ND	0.00434		mg/Kg	1	10/8/2012 8:24:25 PM
2-Methylnaphthalene	ND	0.00434		mg/Kg	1	10/8/2012 8:24:25 PM
Acetone	0.0469	0.0108		mg/Kg	1	10/8/2012 8:24:25 PM
Bromobenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Bromodichloromethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Bromoform	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Bromomethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
2-Butanone	ND	0.0108		mg/Kg	1	10/8/2012 8:24:25 PM
Carbon tetrachloride	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Chlorobenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Chloroethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (11-11.25')

Project: SWMU NO.1

Collection Date: 10/2/2012 4:50:00 PM

Lab ID: 1210279-010

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Chloromethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
2-Chlorotoluene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Carbon disulfide	ND	0.0108		mg/Kg	1	10/8/2012 8:24:25 PM
4-Chlorotoluene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
cis-1,2-DCE	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
cis-1,3-Dichloropropene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,2-Dibromo-3-chloropropane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Dibromochloromethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Dibromomethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,2-Dichlorobenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,3-Dichlorobenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,4-Dichlorobenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Dichlorodifluoromethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,1-Dichloroethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,1-Dichloroethene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,2-Dichloropropane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,3-Dichloropropane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
2,2-Dichloropropane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,1-Dichloropropene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Hexachlorobutadiene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Isopropylbenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
4-Isopropyltoluene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Methylene chloride	ND	0.00325		mg/Kg	1	10/8/2012 8:24:25 PM
n-Butylbenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
2-Hexanone	ND	0.0108		mg/Kg	1	10/8/2012 8:24:25 PM
n-Propylbenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
sec-Butylbenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Styrene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
4-Methyl-2-pentanone	ND	0.0108		mg/Kg	1	10/8/2012 8:24:25 PM
tert-Butylbenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,1,1,2-Tetrachloroethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,1,2,2-Tetrachloroethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Tetrachloroethene (PCE)	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
trans-1,2-DCE	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
trans-1,3-Dichloropropene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,2,3-Trichlorobenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,2,4-Trichlorobenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,1,1-Trichloroethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,1,2-Trichloroethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Trichloroethene (TCE)	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Trichlorofluoromethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (11-11.25')

Project: SWMU NO.1

Collection Date: 10/2/2012 4:50:00 PM

Lab ID: 1210279-010

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Vinyl chloride	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Surr: 1,2-Dichloroethane-d4	100	70-130		%REC	1	10/8/2012 8:24:25 PM
Surr: 4-Bromofluorobenzene	89.2	70-130		%REC	1	10/8/2012 8:24:25 PM
Surr: Dibromofluoromethane	104	70-130		%REC	1	10/8/2012 8:24:25 PM
Surr: Toluene-d8	89.1	70-130		%REC	1	10/8/2012 8:24:25 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (18.5-19.5')

Project: SWMU NO.1

Collection Date: 10/2/2012 5:10:00 PM

Lab ID: 1210279-011

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/7/2012 4:22:29 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/7/2012 4:22:29 AM
Surr: DNOP	96.0	77.6-140		%REC	1	10/7/2012 4:22:29 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 2:54:09 AM
Surr: BFB	124	84-116	S	%REC	1	10/6/2012 2:54:09 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 10:59:26 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	5.0		mg/Kg	2	10/23/2012 7:22:03 PM
Arsenic	ND	5.0		mg/Kg	2	10/17/2012 11:32:55 AM
Barium	270	1.0		mg/Kg	10	10/17/2012 1:45:34 PM
Beryllium	0.79	0.30		mg/Kg	2	10/17/2012 11:32:55 AM
Cadmium	ND	0.20		mg/Kg	2	10/17/2012 11:32:55 AM
Chromium	9.3	0.60		mg/Kg	2	10/17/2012 11:32:55 AM
Cobalt	5.4	0.60		mg/Kg	2	10/17/2012 11:32:55 AM
Iron	16000	500		mg/Kg	500	10/17/2012 1:48:00 PM
Lead	4.8	0.50		mg/Kg	2	10/17/2012 11:32:55 AM
Manganese	510	2.0		mg/Kg	20	10/23/2012 7:24:33 PM
Nickel	10	1.0		mg/Kg	2	10/17/2012 11:32:55 AM
Selenium	ND	5.0		mg/Kg	2	10/23/2012 7:22:03 PM
Silver	ND	0.50		mg/Kg	2	10/17/2012 11:32:55 AM
Vanadium	11	5.0		mg/Kg	2	10/17/2012 11:32:55 AM
Zinc	15	5.0		mg/Kg	2	10/17/2012 11:32:55 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Benzoic acid	ND	0.49		mg/Kg	1	10/9/2012 5:22:05 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (18.5-19.5')

Project: SWMU NO.1

Collection Date: 10/2/2012 5:10:00 PM

Lab ID: 1210279-011

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.49		mg/Kg	1	10/9/2012 5:22:05 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
4-Chloro-3-methylphenol	ND	0.49		mg/Kg	1	10/9/2012 5:22:05 PM
4-Chloroaniline	ND	0.49		mg/Kg	1	10/9/2012 5:22:05 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 5:22:05 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Di-n-butyl phthalate	ND	0.49		mg/Kg	1	10/9/2012 5:22:05 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 5:22:05 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 5:22:05 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 5:22:05 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/9/2012 5:22:05 PM
4,6-Dinitro-2-methylphenol	ND	0.49		mg/Kg	1	10/9/2012 5:22:05 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 5:22:05 PM
2,4-Dinitrotoluene	ND	0.49		mg/Kg	1	10/9/2012 5:22:05 PM
2,6-Dinitrotoluene	ND	0.49		mg/Kg	1	10/9/2012 5:22:05 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Isophorone	ND	0.49		mg/Kg	1	10/9/2012 5:22:05 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
2-Methylphenol	ND	0.49		mg/Kg	1	10/9/2012 5:22:05 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (18.5-19.5')

Project: SWMU NO.1

Collection Date: 10/2/2012 5:10:00 PM

Lab ID: 1210279-011

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 5:22:05 PM
Nitrobenzene	ND	0.49		mg/Kg	1	10/9/2012 5:22:05 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 5:22:05 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 5:22:05 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Pyridine	ND	0.49		mg/Kg	1	10/9/2012 5:22:05 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Surr: 2,4,6-Tribromophenol	74.8	21.3-145		%REC	1	10/9/2012 5:22:05 PM
Surr: 2-Fluorobiphenyl	70.5	20-131		%REC	1	10/9/2012 5:22:05 PM
Surr: 2-Fluorophenol	72.6	11.9-130		%REC	1	10/9/2012 5:22:05 PM
Surr: 4-Terphenyl-d14	70.5	25.1-149		%REC	1	10/9/2012 5:22:05 PM
Surr: Nitrobenzene-d5	72.2	25.6-137		%REC	1	10/9/2012 5:22:05 PM
Surr: Phenol-d5	76.1	20.3-132		%REC	1	10/9/2012 5:22:05 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	0.00269	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Toluene	0.00164	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Ethylbenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Xylenes, Total	ND	0.00258		mg/Kg	1	10/8/2012 8:55:09 PM
Methyl tert-butyl ether (MTBE)	0.00256	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,2,4-Trimethylbenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,3,5-Trimethylbenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,2-Dichloroethane (EDC)	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,2-Dibromoethane (EDB)	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Naphthalene	ND	0.00258		mg/Kg	1	10/8/2012 8:55:09 PM
1-Methylnaphthalene	ND	0.00517		mg/Kg	1	10/8/2012 8:55:09 PM
2-Methylnaphthalene	ND	0.00517		mg/Kg	1	10/8/2012 8:55:09 PM
Acetone	ND	0.0129		mg/Kg	1	10/8/2012 8:55:09 PM
Bromobenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Bromodichloromethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Bromoform	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Bromomethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
2-Butanone	ND	0.0129		mg/Kg	1	10/8/2012 8:55:09 PM
Carbon tetrachloride	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Chlorobenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Chloroethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (18.5-19.5')

Project: SWMU NO.1

Collection Date: 10/2/2012 5:10:00 PM

Lab ID: 1210279-011

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Chloromethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
2-Chlorotoluene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Carbon disulfide	ND	0.0129		mg/Kg	1	10/8/2012 8:55:09 PM
4-Chlorotoluene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
cis-1,2-DCE	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
cis-1,3-Dichloropropene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,2-Dibromo-3-chloropropane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Dibromochloromethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Dibromomethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,2-Dichlorobenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,3-Dichlorobenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,4-Dichlorobenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Dichlorodifluoromethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,1-Dichloroethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,1-Dichloroethene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,2-Dichloropropane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,3-Dichloropropane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
2,2-Dichloropropane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,1-Dichloropropene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Hexachlorobutadiene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Isopropylbenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
4-Isopropyltoluene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Methylene chloride	ND	0.00388		mg/Kg	1	10/8/2012 8:55:09 PM
n-Butylbenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
2-Hexanone	ND	0.0129		mg/Kg	1	10/8/2012 8:55:09 PM
n-Propylbenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
sec-Butylbenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Styrene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
4-Methyl-2-pentanone	ND	0.0129		mg/Kg	1	10/8/2012 8:55:09 PM
tert-Butylbenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,1,1,2-Tetrachloroethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,1,2,2-Tetrachloroethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Tetrachloroethene (PCE)	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
trans-1,2-DCE	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
trans-1,3-Dichloropropene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,2,3-Trichlorobenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,2,4-Trichlorobenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,1,1-Trichloroethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,1,2-Trichloroethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Trichloroethene (TCE)	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Trichlorofluoromethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (18.5-19.5')

Project: SWMU NO.1

Collection Date: 10/2/2012 5:10:00 PM

Lab ID: 1210279-011

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Vinyl chloride	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Surr: 1,2-Dichloroethane-d4	100	70-130		%REC	1	10/8/2012 8:55:09 PM
Surr: 4-Bromofluorobenzene	92.0	70-130		%REC	1	10/8/2012 8:55:09 PM
Surr: Dibromofluoromethane	103	70-130		%REC	1	10/8/2012 8:55:09 PM
Surr: Toluene-d8	88.3	70-130		%REC	1	10/8/2012 8:55:09 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (19.5-20')

Project: SWMU NO.1

Collection Date: 10/2/2012 5:25:00 PM

Lab ID: 1210279-012

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/7/2012 4:47:05 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/7/2012 4:47:05 AM
Surr: DNOP	96.2	77.6-140		%REC	1	10/7/2012 4:47:05 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 4:55:02 AM
Surr: BFB	110	84-116		%REC	1	10/6/2012 4:55:02 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 11:01:18 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	5.0		mg/Kg	2	10/23/2012 7:26:58 PM
Arsenic	ND	5.0		mg/Kg	2	10/17/2012 11:38:08 AM
Barium	400	1.0		mg/Kg	10	10/17/2012 2:00:57 PM
Beryllium	0.83	0.30		mg/Kg	2	10/17/2012 11:38:08 AM
Cadmium	ND	0.20		mg/Kg	2	10/17/2012 11:38:08 AM
Chromium	10	0.60		mg/Kg	2	10/17/2012 11:38:08 AM
Cobalt	5.7	0.60		mg/Kg	2	10/17/2012 11:38:08 AM
Iron	16000	500		mg/Kg	500	10/17/2012 2:05:01 PM
Lead	2.8	0.50		mg/Kg	2	10/17/2012 11:38:08 AM
Manganese	610	2.0		mg/Kg	20	10/23/2012 7:36:44 PM
Nickel	12	1.0		mg/Kg	2	10/17/2012 11:38:08 AM
Selenium	ND	5.0		mg/Kg	2	10/23/2012 7:26:58 PM
Silver	ND	0.50		mg/Kg	2	10/17/2012 11:38:08 AM
Vanadium	10	5.0		mg/Kg	2	10/17/2012 11:38:08 AM
Zinc	16	5.0		mg/Kg	2	10/17/2012 11:38:08 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Benzoic acid	ND	0.50		mg/Kg	1	10/9/2012 5:52:19 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (19.5-20')

Project: SWMU NO.1

Collection Date: 10/2/2012 5:25:00 PM

Lab ID: 1210279-012

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/9/2012 5:52:19 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 5:52:19 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/9/2012 5:52:19 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 5:52:19 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/9/2012 5:52:19 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 5:52:19 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 5:52:19 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 5:52:19 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/9/2012 5:52:19 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 5:52:19 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 5:52:19 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 5:52:19 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 5:52:19 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Isophorone	ND	0.50		mg/Kg	1	10/9/2012 5:52:19 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
2-Methylphenol	ND	0.50		mg/Kg	1	10/9/2012 5:52:19 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM

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- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (19.5-20')

Project: SWMU NO.1

Collection Date: 10/2/2012 5:25:00 PM

Lab ID: 1210279-012

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 5:52:19 PM
Nitrobenzene	ND	0.50		mg/Kg	1	10/9/2012 5:52:19 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 5:52:19 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 5:52:19 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Pyridine	ND	0.50		mg/Kg	1	10/9/2012 5:52:19 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Surr: 2,4,6-Tribromophenol	80.2	21.3-145		%REC	1	10/9/2012 5:52:19 PM
Surr: 2-Fluorobiphenyl	74.8	20-131		%REC	1	10/9/2012 5:52:19 PM
Surr: 2-Fluorophenol	80.7	11.9-130		%REC	1	10/9/2012 5:52:19 PM
Surr: 4-Terphenyl-d14	65.7	25.1-149		%REC	1	10/9/2012 5:52:19 PM
Surr: Nitrobenzene-d5	78.3	25.6-137		%REC	1	10/9/2012 5:52:19 PM
Surr: Phenol-d5	78.3	20.3-132		%REC	1	10/9/2012 5:52:19 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	0.00855	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Toluene	0.00500	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Ethylbenzene	0.00125	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Xylenes, Total	0.00344	0.00240		mg/Kg	1	10/8/2012 9:25:50 PM
Methyl tert-butyl ether (MTBE)	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,2,4-Trimethylbenzene	0.00132	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,3,5-Trimethylbenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,2-Dichloroethane (EDC)	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,2-Dibromoethane (EDB)	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Naphthalene	ND	0.00240		mg/Kg	1	10/8/2012 9:25:50 PM
1-Methylnaphthalene	ND	0.00481		mg/Kg	1	10/8/2012 9:25:50 PM
2-Methylnaphthalene	ND	0.00481		mg/Kg	1	10/8/2012 9:25:50 PM
Acetone	ND	0.0120		mg/Kg	1	10/8/2012 9:25:50 PM
Bromobenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Bromodichloromethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Bromoform	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Bromomethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
2-Butanone	ND	0.0120		mg/Kg	1	10/8/2012 9:25:50 PM
Carbon tetrachloride	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Chlorobenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Chloroethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM

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- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (19.5-20')

Project: SWMU NO.1

Collection Date: 10/2/2012 5:25:00 PM

Lab ID: 1210279-012

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Chloromethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
2-Chlorotoluene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Carbon disulfide	ND	0.0120		mg/Kg	1	10/8/2012 9:25:50 PM
4-Chlorotoluene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
cis-1,2-DCE	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
cis-1,3-Dichloropropene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,2-Dibromo-3-chloropropane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Dibromochloromethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Dibromomethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,2-Dichlorobenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,3-Dichlorobenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,4-Dichlorobenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Dichlorodifluoromethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,1-Dichloroethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,1-Dichloroethene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,2-Dichloropropane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,3-Dichloropropane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
2,2-Dichloropropane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,1-Dichloropropene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Hexachlorobutadiene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Isopropylbenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
4-Isopropyltoluene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Methylene chloride	ND	0.00360		mg/Kg	1	10/8/2012 9:25:50 PM
n-Butylbenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
2-Hexanone	ND	0.0120		mg/Kg	1	10/8/2012 9:25:50 PM
n-Propylbenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
sec-Butylbenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Styrene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
4-Methyl-2-pentanone	ND	0.0120		mg/Kg	1	10/8/2012 9:25:50 PM
tert-Butylbenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,1,1,2-Tetrachloroethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,1,2,2-Tetrachloroethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Tetrachloroethene (PCE)	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
trans-1,2-DCE	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
trans-1,3-Dichloropropene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,2,3-Trichlorobenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,2,4-Trichlorobenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,1,1-Trichloroethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,1,2-Trichloroethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Trichloroethene (TCE)	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Trichlorofluoromethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (19.5-20')

Project: SWMU NO.1

Collection Date: 10/2/2012 5:25:00 PM

Lab ID: 1210279-012

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Vinyl chloride	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Surr: 1,2-Dichloroethane-d4	104	70-130		%REC	1	10/8/2012 9:25:50 PM
Surr: 4-Bromofluorobenzene	95.3	70-130		%REC	1	10/8/2012 9:25:50 PM
Surr: Dibromofluoromethane	103	70-130		%REC	1	10/8/2012 9:25:50 PM
Surr: Toluene-d8	90.5	70-130		%REC	1	10/8/2012 9:25:50 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100212

Project: SWMU NO.1

Collection Date: 10/2/2012 5:45:00 PM

Lab ID: 1210279-013

Matrix: AQUEOUS

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/8/2012 11:26:09 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/8/2012 11:26:09 AM
Surr: DNOP	118	79.5-166		%REC	1	10/8/2012 11:26:09 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/5/2012 6:49:39 PM
Surr: BFB	97.5	69.8-119		%REC	1	10/5/2012 6:49:39 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Fluoride	ND	0.10		mg/L	1	10/4/2012 12:22:52 PM
Chloride	ND	0.50		mg/L	1	10/4/2012 12:22:52 PM
Sulfate	ND	0.50		mg/L	1	10/4/2012 12:22:52 PM
EPA METHOD 200.7: METALS						Analyst: JLF
Barium	ND	0.0020		mg/L	1	10/10/2012 10:02:26 PM
Beryllium	ND	0.0020		mg/L	1	10/10/2012 10:02:26 PM
Cadmium	ND	0.0020		mg/L	1	10/10/2012 10:02:26 PM
Chromium	ND	0.0060		mg/L	1	10/10/2012 10:02:26 PM
Cobalt	ND	0.0060		mg/L	1	10/10/2012 10:02:26 PM
Iron	ND	0.020		mg/L	1	10/10/2012 10:02:26 PM
Manganese	ND	0.0020		mg/L	1	10/10/2012 10:02:26 PM
Nickel	ND	0.010		mg/L	1	10/10/2012 10:02:26 PM
Silver	ND	0.0050		mg/L	1	10/10/2012 10:02:26 PM
Vanadium	ND	0.050		mg/L	1	10/10/2012 10:02:26 PM
Zinc	ND	0.010		mg/L	1	10/12/2012 9:22:54 AM
EPA 200.8: METALS						Analyst: DBD
Antimony	ND	0.0010		mg/L	1	10/17/2012 12:40:00 PM
Arsenic	ND	0.0010		mg/L	1	10/17/2012 12:40:00 PM
Lead	ND	0.0010		mg/L	1	10/17/2012 12:40:00 PM
Selenium	ND	0.0010		mg/L	1	10/17/2012 12:40:00 PM
EPA METHOD 245.1: MERCURY						Analyst: IDC
Mercury	ND	0.00020		mg/L	1	10/15/2012 6:15:26 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Acenaphthylene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Aniline	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Anthracene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Azobenzene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Benz(a)anthracene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Benzo(a)pyrene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	10/8/2012 7:29:47 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100212

Project: SWMU NO.1

Collection Date: 10/2/2012 5:45:00 PM

Lab ID: 1210279-013

Matrix: AQUEOUS

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(k)fluoranthene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Benzoic acid	ND	20		µg/L	1	10/8/2012 7:29:47 PM
Benzyl alcohol	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	10/8/2012 7:29:47 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Butyl benzyl phthalate	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Carbazole	ND	10		µg/L	1	10/8/2012 7:29:47 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	10/8/2012 7:29:47 PM
4-Chloroaniline	ND	10		µg/L	1	10/8/2012 7:29:47 PM
2-Chloronaphthalene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
2-Chlorophenol	ND	10		µg/L	1	10/8/2012 7:29:47 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Chrysene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Di-n-butyl phthalate	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Di-n-octyl phthalate	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Dibenzofuran	ND	10		µg/L	1	10/8/2012 7:29:47 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Diethyl phthalate	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Dimethyl phthalate	ND	10		µg/L	1	10/8/2012 7:29:47 PM
2,4-Dichlorophenol	ND	20		µg/L	1	10/8/2012 7:29:47 PM
2,4-Dimethylphenol	ND	10		µg/L	1	10/8/2012 7:29:47 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	10/8/2012 7:29:47 PM
2,4-Dinitrophenol	ND	20		µg/L	1	10/8/2012 7:29:47 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Fluoranthene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Fluorene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Hexachlorobenzene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Hexachlorobutadiene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Hexachloroethane	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Isophorone	ND	10		µg/L	1	10/8/2012 7:29:47 PM
1-Methylnaphthalene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
2-Methylnaphthalene	ND	10		µg/L	1	10/8/2012 7:29:47 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100212

Project: SWMU NO.1

Collection Date: 10/2/2012 5:45:00 PM

Lab ID: 1210279-013

Matrix: AQUEOUS

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylphenol	ND	10		µg/L	1	10/8/2012 7:29:47 PM
3+4-Methylphenol	ND	10		µg/L	1	10/8/2012 7:29:47 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/8/2012 7:29:47 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	10/8/2012 7:29:47 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Naphthalene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
2-Nitroaniline	ND	10		µg/L	1	10/8/2012 7:29:47 PM
3-Nitroaniline	ND	10		µg/L	1	10/8/2012 7:29:47 PM
4-Nitroaniline	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Nitrobenzene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
2-Nitrophenol	ND	10		µg/L	1	10/8/2012 7:29:47 PM
4-Nitrophenol	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Pentachlorophenol	ND	20		µg/L	1	10/8/2012 7:29:47 PM
Phenanthrene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Phenol	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Pyrene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Pyridine	ND	10		µg/L	1	10/8/2012 7:29:47 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	10/8/2012 7:29:47 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Surr: 2,4,6-Tribromophenol	74.8	44.2-126		%REC	1	10/8/2012 7:29:47 PM
Surr: 2-Fluorobiphenyl	63.7	37-114		%REC	1	10/8/2012 7:29:47 PM
Surr: 2-Fluorophenol	60.4	23.4-98		%REC	1	10/8/2012 7:29:47 PM
Surr: 4-Terphenyl-d14	64.6	41.3-116		%REC	1	10/8/2012 7:29:47 PM
Surr: Nitrobenzene-d5	72.6	39.5-118		%REC	1	10/8/2012 7:29:47 PM
Surr: Phenol-d5	44.8	20.9-95.9		%REC	1	10/8/2012 7:29:47 PM
EPA METHOD 8260B: VOLATILES						Analyst: JDJ
Benzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Toluene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Ethylbenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Naphthalene	ND	2.0		µg/L	1	10/4/2012 11:20:42 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/4/2012 11:20:42 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/4/2012 11:20:42 PM
Acetone	ND	10		µg/L	1	10/4/2012 11:20:42 PM
Bromobenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100212

Project: SWMU NO.1

Collection Date: 10/2/2012 5:45:00 PM

Lab ID: 1210279-013

Matrix: AQUEOUS

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: JDJ
Bromoform	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Bromomethane	ND	3.0		µg/L	1	10/4/2012 11:20:42 PM
2-Butanone	ND	10		µg/L	1	10/4/2012 11:20:42 PM
Carbon disulfide	ND	10		µg/L	1	10/4/2012 11:20:42 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Chlorobenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Chloroethane	ND	2.0		µg/L	1	10/4/2012 11:20:42 PM
Chloroform	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Chloromethane	ND	3.0		µg/L	1	10/4/2012 11:20:42 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/4/2012 11:20:42 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Dibromomethane	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/4/2012 11:20:42 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
2-Hexanone	ND	10		µg/L	1	10/4/2012 11:20:42 PM
Isopropylbenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/4/2012 11:20:42 PM
Methylene Chloride	ND	3.0		µg/L	1	10/4/2012 11:20:42 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/4/2012 11:20:42 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Styrene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/4/2012 11:20:42 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100212

Project: SWMU NO.1

Collection Date: 10/2/2012 5:45:00 PM

Lab ID: 1210279-013

Matrix: AQUEOUS

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: JDJ
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/4/2012 11:20:42 PM
Vinyl chloride	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Xylenes, Total	ND	1.5		µg/L	1	10/4/2012 11:20:42 PM
Surr: 1,2-Dichloroethane-d4	93.9	70-130		%REC	1	10/4/2012 11:20:42 PM
Surr: 4-Bromofluorobenzene	112	70-130		%REC	1	10/4/2012 11:20:42 PM
Surr: Dibromofluoromethane	99.3	70-130		%REC	1	10/4/2012 11:20:42 PM
Surr: Toluene-d8	92.3	70-130		%REC	1	10/4/2012 11:20:42 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 121005049
Project Name: 1210279

Analytical Results Report

Sample Number	121005049-001	Sampling Date	10/2/2012	Date/Time Received	10/5/2012	10:54 A	
Client Sample ID	1210279-001D / SWMU 1-2 (6-8)			Sampling Time	10:00 AM		
Matrix	Soil	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	15.1	Percent		10/9/2012	KFG	%moisture	

Sample Number	121005049-002	Sampling Date	10/2/2012	Date/Time Received	10/5/2012	10:54 A	
Client Sample ID	1210279-002D / SWMU 1-2 (10-11)			Sampling Time	10:20 AM		
Matrix	Soil	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	19.8	Percent		10/9/2012	KFG	%moisture	

Sample Number	121005049-003	Sampling Date	10/2/2012	Date/Time Received	10/5/2012	10:54 A	
Client Sample ID	1210279-003D / SWMU 1-2 (14-16)			Sampling Time	10:35 AM		
Matrix	Soil	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	16.5	Percent		10/9/2012	KFG	%moisture	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 121005049
Project Name: 1210279

Analytical Results Report

Sample Number	121005049-004	Sampling Date	10/2/2012	Date/Time Received	10/5/2012	10:54 A
Client Sample ID	1210279-004D / SWMU 1-2 (17-17.25)			Sampling Time	10:50 AM	
Matrix	Soil	Sample Location				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	19.3	Percent		10/9/2012	KFG	%moisture	

Sample Number	121005049-005	Sampling Date	10/2/2012	Date/Time Received	10/5/2012	10:54 A
Client Sample ID	1210279-005D / SWMU 1-2 (19.5-20)			Sampling Time	11:05 AM	
Matrix	Soil	Sample Location				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	10.8	Percent		10/9/2012	KFG	%moisture	

Sample Number	121005049-006	Sampling Date	10/2/2012	Date/Time Received	10/5/2012	10:54 A
Client Sample ID	1210279-006F / SWMU 1-2 GW			Sampling Time	1:45 PM	
Matrix	Water	Sample Location				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	0.0367	mg/L	0.01	10/16/2012	CRW	EPA 335.4	

Sample Number	121005049-007	Sampling Date	10/2/2012	Date/Time Received	10/5/2012	10:54 A
Client Sample ID	1210279-008D / SWMU 1-3 (2-4)			Sampling Time	4:20 PM	
Matrix	Soil	Sample Location				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	11.4	Percent		10/9/2012	KFG	%moisture	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 121005049
Project Name: 1210279

Analytical Results Report

Sample Number	121005049-008	Sampling Date	10/2/2012	Date/Time Received	10/5/2012	10:54 A
Client Sample ID	1210279-009D / SWMU 1-3 (10-11)			Sampling Time	4:35 PM	
Matrix	Soil	Sample Location				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	18.1	Percent		10/9/2012	KFG	%moisture	

Sample Number	121005049-009	Sampling Date	10/2/2012	Date/Time Received	10/5/2012	10:54 A
Client Sample ID	1210279-010D / SWMU 1-3 (11-11.25)			Sampling Time	4:50 PM	
Matrix	Soil	Sample Location				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	17.5	Percent		10/9/2012	KFG	%moisture	

Sample Number	121005049-010	Sampling Date	10/2/2012	Date/Time Received	10/5/2012	10:54 A
Client Sample ID	1210279-011D / SWMU 1-3 (18.5-19.5)			Sampling Time	5:10 PM	
Matrix	Soil	Sample Location				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	18.3	Percent		10/9/2012	KFG	%moisture	

Sample Number	121005049-011	Sampling Date	10/2/2012	Date/Time Received	10/5/2012	10:54 A
Client Sample ID	1210279-012D / SWMU 1-3 (19.5-20)			Sampling Time	5:25 PM	
Matrix	Soil	Sample Location				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	13.3	Percent		10/9/2012	KFG	%moisture	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0085

Anatek Labs, Inc.

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

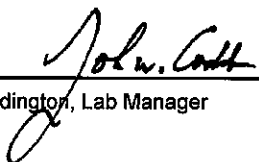
Batch #: 121005049
Project Name: 1210279

Analytical Results Report

Sample Number	121005049-012	Sampling Date	10/2/2012	Date/Time Received	10/5/2012 10:54 A
Client Sample ID	1210279-013F / EB100212			Sampling Time	5:45 PM
Matrix	Water	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/L	0.01	10/16/2012	CRW	EPA 335.4	

Authorized Signature


John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 200.7: Metals					
Client ID:	PBW	Batch ID: R6141			RunNo: 6141					
Prep Date:		Analysis Date: 10/10/2012			SeqNo: 176939		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Beryllium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Iron	ND	0.020								
Manganese	ND	0.0020								
Nickel	ND	0.010								
Silver	ND	0.0050								
Vanadium	ND	0.050								

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 200.7: Metals					
Client ID:	LCSW		Batch ID: R6141		RunNo: 6141					
Prep Date:			Analysis Date: 10/10/2012		SeqNo: 176940		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0	98.6	85	115			
Beryllium	0.51	0.0020	0.5000	0	101	85	115			
Cadmium	0.50	0.0020	0.5000	0	100	85	115			
Chromium	0.49	0.0060	0.5000	0	97.3	85	115			
Cobalt	0.48	0.0060	0.5000	0	96.2	85	115			
Iron	0.49	0.020	0.5000	0	98.1	85	115			
Manganese	0.49	0.0020	0.5000	0	97.7	85	115			
Nickel	0.47	0.010	0.5000	0	94.9	85	115			
Silver	0.10	0.0050	0.1000	0	102	85	115			
Vanadium	0.51	0.050	0.5000	0	101	85	115			

Sample ID	1210368-001BMS			SampType:	MS		TestCode:	EPA Method 200.7: Metals			
Client ID:	BatchQC			Batch ID:	R6141		RunNo:	6141			
Prep Date:				Analysis Date:	10/10/2012		SeqNo:	177005		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Barium	0.51	0.0020	0.5000	0.02430	96.8	70	130				
Beryllium	0.51	0.0020	0.5000	0	102	70	130				
Cadmium	0.49	0.0020	0.5000	0	97.8	70	130				

Sample ID	1210368-001BMSD			SampType:	MSD		TestCode:	EPA Method 200.7: Metals			
Client ID:	BatchQC			Batch ID:	R6141		RunNo:	6141			
Prep Date:				Analysis Date:	10/10/2012		SeqNo:	177006		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Barium	0.51	0.0020	0.5000	0.02430	97.1	70	130	0.302	20		

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210368-001BMSD			SampType:	MSD		TestCode:	EPA Method 200.7: Metals			
Client ID:	BatchQC			Batch ID:	R6141		RunNo:	6141			
Prep Date:				Analysis Date:	10/10/2012		SeqNo:	177006		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Beryllium	0.52	0.0020	0.5000	0	103	70	130	0.724	20		
Cadmium	0.50	0.0020	0.5000	0	99.0	70	130	1.24	20		

Sample ID	MB-4223		SampType: MBLK		TestCode: EPA Method 200.7: Metals					
Client ID:	PBW		Batch ID: 4223		RunNo: 6141					
Prep Date:	10/10/2012		Analysis Date: 10/10/2012		SeqNo: 177028		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Beryllium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Iron	ND	0.020								
Manganese	ND	0.0020								
Nickel	ND	0.010								
Silver	ND	0.0050								
Vanadium	ND	0.050								
Zinc	ND	0.010								

Sample ID	LCS-4223		SampType: LCS		TestCode: EPA Method 200.7: Metals					
Client ID:	LCSW		Batch ID: 4223		RunNo: 6141					
Prep Date:	10/10/2012		Analysis Date: 10/10/2012		SeqNo: 177029		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0	99.0	85	115			
Beryllium	0.52	0.0020	0.5000	0	104	85	115			
Cadmium	0.51	0.0020	0.5000	0	102	85	115			
Chromium	0.49	0.0060	0.5000	0	98.2	85	115			
Cobalt	0.49	0.0060	0.5000	0	97.1	85	115			
Iron	0.50	0.020	0.5000	0	100	85	115			
Manganese	0.49	0.0020	0.5000	0	98.3	85	115			
Nickel	0.48	0.010	0.5000	0	96.2	85	115			
Silver	0.10	0.0050	0.1000	0	103	85	115			
Vanadium	0.51	0.050	0.5000	0	102	85	115			
Zinc	0.49	0.010	0.5000	0	97.9	85	115			

Sample ID	MB		SampType: MBLK		TestCode: EPA Method 200.7: Metals					
Client ID:	PBW		Batch ID: R6212		RunNo: 6212					
Prep Date:			Analysis Date: 10/12/2012		SeqNo: 178907		Units: mg/L			
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 200.7: Metals					
Client ID:	PBW	Batch ID: R6212			RunNo: 6212					
Prep Date:		Analysis Date: 10/12/2012			SeqNo: 178907		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Zinc	ND	0.010								

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 200.7: Metals					
Client ID:	LCSW		Batch ID: R6212		RunNo: 6212					
Prep Date:			Analysis Date: 10/12/2012		SeqNo: 178908		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Zinc	0.51	0.010	0.5000	0	101	85	115			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4223		SampType:	MBLK		TestCode:	EPA 200.8: Metals			
Client ID:	PBW		Batch ID:	4223		RunNo:	6249			
Prep Date:	10/10/2012		Analysis Date:	10/15/2012		SeqNo:	179959		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0025								
Arsenic	ND	0.0025								
Lead	ND	0.0025								
Selenium	ND	0.0025								

Sample ID	1210046-001AMS		SampType:	MS		TestCode:	EPA 200.8: Metals			
Client ID:	BatchQC		Batch ID:	R6315		RunNo:	6315			
Prep Date:			Analysis Date:	10/17/2012		SeqNo:	181878		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.027	0.0010	0.02500	0.001891	99.5	70	130			

Sample ID	1210367-001BMS		SampType:	MS		TestCode:	EPA 200.8: Metals			
Client ID:	BatchQC		Batch ID:	R6315		RunNo:	6315			
Prep Date:			Analysis Date:	10/17/2012		SeqNo:	181885		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.025	0.0010	0.02500	0	98.6	70	130			
Arsenic	0.035	0.0010	0.02500	0.01018	101	70	130			
Selenium	0.031	0.0010	0.02500	0.005490	104	70	130			

Sample ID	LCS		SampType:	LCS		TestCode:	EPA 200.8: Metals			
Client ID:	LCSW		Batch ID:	R6315		RunNo:	6315			
Prep Date:			Analysis Date:	10/17/2012		SeqNo:	181905		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.025	0.0010	0.02500	0	101	85	115			
Arsenic	0.026	0.0010	0.02500	0	102	85	115			
Lead	0.025	0.0010	0.02500	0	99.9	85	115			
Selenium	0.026	0.0010	0.02500	0	106	85	115			

Sample ID	LCS		SampType:	LCS		TestCode:	EPA 200.8: Metals			
Client ID:	LCSW		Batch ID:	R6315		RunNo:	6315			
Prep Date:			Analysis Date:	10/17/2012		SeqNo:	181906		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.025	0.0010	0.02500	0	101	85	115			
Arsenic	0.026	0.0010	0.02500	0	102	85	115			
Lead	0.025	0.0010	0.02500	0	99.6	85	115			
Selenium	0.027	0.0010	0.02500	0	106	85	115			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	LCS		SampType: LCS		TestCode: EPA 200.8: Metals					
Client ID:	LCSW		Batch ID: R6315		RunNo: 6315					
Prep Date:			Analysis Date: 10/17/2012		SeqNo: 181907		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.024	0.0010	0.02500	0	96.7	85	115			
Arsenic	0.025	0.0010	0.02500	0	101	85	115			
Lead	0.025	0.0010	0.02500	0	100	85	115			
Selenium	0.026	0.0010	0.02500	0	106	85	115			

Sample ID	MB		SampType: MBLK		TestCode: EPA 200.8: Metals					
Client ID:	PBW		Batch ID: R6315		RunNo: 6315					
Prep Date:			Analysis Date: 10/17/2012		SeqNo: 181909		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID	MB		SampType: MBLK		TestCode: EPA 200.8: Metals					
Client ID:	PBW		Batch ID: R6315		RunNo: 6315					
Prep Date:			Analysis Date: 10/17/2012		SeqNo: 181910		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID	MB		SampType: MBLK		TestCode: EPA 200.8: Metals					
Client ID:	PBW		Batch ID: R6315		RunNo: 6315					
Prep Date:			Analysis Date: 10/17/2012		SeqNo: 181911		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID	1210585-001CMS		SampType: MS		TestCode: EPA 200.8: Metals					
Client ID:	BatchQC		Batch ID: R6315		RunNo: 6315					
Prep Date:			Analysis Date: 10/17/2012		SeqNo: 181948		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.026	0.0010	0.02500	0	103	70	130			
Arsenic	0.026	0.0010	0.02500	0	102	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210585-001CMS			SampType:	MS			TestCode:	EPA 200.8: Metals		
Client ID:	BatchQC			Batch ID:	R6315			RunNo:	6315		
Prep Date:				Analysis Date:	10/17/2012			SeqNo:	181948		Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Lead	0.025	0.0010	0.02500	0	99.7	70	130				
Selenium	0.026	0.0010	0.02500	0	105	70	130				

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4279		SampType: MBLK		TestCode: EPA Method 245.1: Mercury					
Client ID:	PBW		Batch ID: 4279		RunNo: 6215					
Prep Date:	10/12/2012		Analysis Date: 10/12/2012		SeqNo: 179065		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercurv	ND	0.00020								

Sample ID	LCS-4279		SampType: LCS		TestCode: EPA Method 245.1: Mercury					
Client ID:	LCSW		Batch ID: 4279		RunNo: 6215					
Prep Date:	10/12/2012		Analysis Date: 10/12/2012		SeqNo: 179066		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	97.0	80	120			

Sample ID	1210332-010EMS		SampType: MS		TestCode: EPA Method 245.1: Mercury					
Client ID:	BatchQC		Batch ID: 4279		RunNo: 6215					
Prep Date:	10/12/2012		Analysis Date: 10/12/2012		SeqNo: 179069		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0048	0.00020	0.005000	0	96.9	75	125			

Sample ID	1210332-010EMSD			SampType:	MSD		TestCode:	EPA Method 245.1: Mercury			
Client ID:	BatchQC			Batch ID:	4279		RunNo:	6215			
Prep Date:	10/12/2012			Analysis Date:	10/12/2012		SeqNo:	179072		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Mercury	0.0049	0.00020	0.005000	0	97.7	75	125	0.749	20		

Sample ID	MB-4303		SampType: mblk		TestCode: EPA Method 245.1: Mercury					
Client ID:	PBW		Batch ID: 4303		RunNo: 6268					
Prep Date:	10/15/2012		Analysis Date: 10/15/2012		SeqNo: 180618		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-4303		SampType: lcs		TestCode: EPA Method 245.1: Mercury					
Client ID:	LCSW		Batch ID: 4303		RunNo: 6268					
Prep Date:	10/15/2012		Analysis Date: 10/15/2012		SeqNo: 180619		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0048	0.00020	0.005000	0	95.8	80	120			

Sample ID	1210352-007BMS		SampType: ms		TestCode: EPA Method 245.1: Mercury					
Client ID:	BatchQC		Batch ID: 4303		RunNo: 6268					
Prep Date:	10/15/2012		Analysis Date: 10/15/2012		SeqNo: 180639		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0047	0.00020	0.005000	0	93.6	75	125			

Qualifiers:

- | | |
|--|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| P Sample pH greater than 2 | R RPD outside accepted recovery limits |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210352-007BMSD			SampType:	msd			TestCode:	EPA Method 245.1: Mercury		
Client ID:	BatchQC			Batch ID:	4303			RunNo:	6268		
Prep Date:	10/15/2012			Analysis Date:	10/15/2012			SeqNo:	180642		Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Mercury	0.0047	0.00020	0.005000	0	94.2	75	125	0.680	20		

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID: R5979			RunNo: 5979					
Prep Date:		Analysis Date: 10/4/2012			SeqNo: 172224		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSW		Batch ID: R5979		RunNo: 5979					
Prep Date:			Analysis Date: 10/4/2012		SeqNo: 172225		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.52	0.10	0.5000	0	103	90	110			
Chloride	5.0	0.50	5.000	0	99.2	90	110			
Sulfate	9.2	0.50	10.00	0	91.9	90	110			

Sample ID	1210279-013GMS			SampType:	MS		TestCode:	EPA Method 300.0: Anions			
Client ID:	EB100212			Batch ID:	R5979		RunNo:	5979			
Prep Date:				Analysis Date:	10/4/2012		SeqNo:	172240		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Fluoride	0.50	0.10	0.5000	0	100	76.6	110				
Chloride	4.7	0.50	5.000	0	94.0	87.8	111				

Sample ID	1210279-013GMSD		SampType: MSD		TestCode: EPA Method 300.0: Anions					
Client ID:	EB100212		Batch ID: R5979		RunNo: 5979					
Prep Date:			Analysis Date: 10/4/2012		SeqNo: 172241		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.50	0.10	0.5000	0	101	76.6	110	0.119	20	
Chloride	4.7	0.50	5.000	0	93.6	87.8	111	0.433	20	

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID: R5996			RunNo: 5996					
Prep Date:		Analysis Date: 10/4/2012			SeqNo: 172794		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Sulfate	ND	0.50								

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSW		Batch ID: R5996		RunNo: 5996					
Prep Date:			Analysis Date: 10/4/2012		SeqNo: 172795		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSW		Batch ID: R5996		RunNo: 5996					
Prep Date:			Analysis Date: 10/4/2012		SeqNo: 172795		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.48	0.10	0.5000	0	96.0	90	110			
Sulfate	9.7	0.50	10.00	0	96.6	90	110			

Sample ID	1210285-001EMS		SampType: MS			TestCode: EPA Method 300.0: Anions				
Client ID:	BatchQC		Batch ID: R5996			RunNo: 5996				
Prep Date:			Analysis Date: 10/4/2012			SeqNo: 172807		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.77	0.10	0.5000	0	155	76.6	110			S

Sample ID	1210285-001EMSD			SampType:	MSD		TestCode:	EPA Method 300.0: Anions			
Client ID:	BatchQC			Batch ID:	R5996		RunNo:	5996			
Prep Date:				Analysis Date:	10/4/2012		SeqNo:	172808		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Fluoride	0.78	0.10	0.5000	0	155	76.6	110	0.271	20	S	

Sample ID	1210300-001BMS			SampType: MS		TestCode: EPA Method 300.0: Anions				
Client ID:	BatchQC			Batch ID: R5996		RunNo: 5996				
Prep Date:				Analysis Date: 10/4/2012		SeqNo: 172812		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	15	0.50	10.00	8.924	62.0	84.6	122			S

Sample ID	1210300-001BMSD			SampType: MSD	TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC			Batch ID: R5996	RunNo: 5996					
Prep Date:				Analysis Date: 10/4/2012	SeqNo: 172813		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	15	0.50	10.00	8.924	62.3	84.6	122	0.201	20	S

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID: R5996			RunNo: 5996					
Prep Date:		Analysis Date: 10/5/2012			SeqNo: 172858		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Sulfate	ND	0.50								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	LCS		SampType: LCS			TestCode: EPA Method 300.0: Anions					
Client ID:	LCSW		Batch ID: R5996			RunNo: 5996					
Prep Date:			Analysis Date: 10/5/2012			SeqNo: 172859		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Fluoride	0.51	0.10	0.5000	0	102	90	110				
Sulfate	9.8	0.50	10.00	0	97.9	90	110				

Sample ID	1210301-001AMS		SampType: MS			TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC		Batch ID: R5996			RunNo: 5996					
Prep Date:			Analysis Date: 10/5/2012			SeqNo: 172863		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Fluoride	1.4	0.10	0.5000	0.8809	97.3	76.6	110				

Sample ID	1210301-001AMSD		SampType: MSD			TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC		Batch ID: R5996			RunNo: 5996					
Prep Date:			Analysis Date: 10/5/2012			SeqNo: 172864		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Fluoride	1.4	0.10	0.5000	0.8809	97.0	76.6	110	0.110	20		

Sample ID	MB		SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID:	PBW		Batch ID: R6149			RunNo: 6149					
Prep Date:			Analysis Date: 10/10/2012			SeqNo: 177130		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	0.50									

Sample ID	LCS		SampType: LCS			TestCode: EPA Method 300.0: Anions					
Client ID:	LCSW		Batch ID: R6149			RunNo: 6149					
Prep Date:			Analysis Date: 10/10/2012			SeqNo: 177131		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	4.9	0.50	5.000	0	98.3	90	110				

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210279-012CMS		SampType: MS		TestCode: EPA Method 8015B: Diesel Range Organics					
Client ID:	SWMU 1-3 (19.5-20')		Batch ID: 4138		RunNo: 6027					
Prep Date:	10/5/2012		Analysis Date: 10/7/2012		SeqNo: 173631		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	51.28	0	80.5	57.2	146			
Surr: DNOP	4.1		5.128		79.6	77.6	140			

Sample ID	1210279-012CMSD		SampType: MSD		TestCode: EPA Method 8015B: Diesel Range Organics					
Client ID:	SWMU 1-3 (19.5-20')		Batch ID: 4138		RunNo: 6027					
Prep Date:	10/5/2012		Analysis Date: 10/7/2012		SeqNo: 173633		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	10	50.97	0	77.2	57.2	146	4.84	24.5	
Surr: DNOP	4.0		5.097		77.7	77.6	140	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4137		SampType: MBLK		TestCode: EPA Method 8015B: Diesel Range					
Client ID:	PBW		Batch ID: 4137		RunNo: 6039					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 174081		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.1		1.000		108	79.5	166			

Sample ID	LCS-4137		SampType: LCS		TestCode: EPA Method 8015B: Diesel Range					
Client ID:	LCSW		Batch ID: 4137		RunNo: 6039					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 174082		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.2	1.0	5.000	0	104	74	157			
Surr: DNOP	0.45		0.5000		90.2	79.5	166			

Sample ID	LCSD-4137		SampType: LCSD		TestCode: EPA Method 8015B: Diesel Range					
Client ID:	LCSS02		Batch ID: 4137		RunNo: 6039					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 174083		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.5	1.0	5.000	0	109	74	157	5.45	23	
Surr: DNOP	0.45		0.5000		90.8	79.5	166	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4015		SampType: MBLK		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	PBS		Batch ID: 4015		RunNo: 6019					
Prep Date:	10/1/2012		Analysis Date: 10/5/2012		SeqNo: 173412		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		100	84	116			

Sample ID	LCS-4015		SampType: LCS		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	LCSS		Batch ID: 4015		RunNo: 6019					
Prep Date:	10/1/2012		Analysis Date: 10/5/2012		SeqNo: 173413		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	74	117			
Surr: BFB	1000		1000		103	84	116			

Sample ID	1210002-001AMS		SampType: MS		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC		Batch ID: 4015		RunNo: 6019					
Prep Date:	10/1/2012		Analysis Date: 10/5/2012		SeqNo: 173418		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.61	0	106	70	130			
Surr: BFB	1100		984.3		108	84	116			

Sample ID	1210002-001AMSD		SampType: MSD		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC		Batch ID: 4015		RunNo: 6019					
Prep Date:	10/1/2012		Analysis Date: 10/5/2012		SeqNo: 173419		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.61	0	97.4	70	130	8.23	22.1	
Surr: BFB	1100		984.3		110	84	116	0	0	

Sample ID	5ML RB		SampType: MBLK		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	PBS		Batch ID: R6020		RunNo: 6020					
Prep Date:			Analysis Date: 10/5/2012		SeqNo: 173460		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	84	116			

Sample ID	2.5UG GRO LCS	SampType: LCS			TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID: R6020			RunNo: 6020					
Prep Date:		Analysis Date: 10/5/2012			SeqNo: 173461		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.0	74	117			
Surr: BFB	820		1000		82.5	84	116			S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210279-011BMS		SampType: MS		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	SWMU 1-3 (18.5-19.		Batch ID: R6020		RunNo: 6020					
Prep Date:			Analysis Date: 10/6/2012		SeqNo: 173465		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	12	5.0	15.46	0	78.9	70	130			
Surr: BFB	670		618.5		108	84	116			

Sample ID	1210279-011BMSD		SampType: MSD		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	SWMU 1-3 (18.5-19.		Batch ID: R6020		RunNo: 6020					
Prep Date:			Analysis Date: 10/6/2012		SeqNo: 173466		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	14	5.0	15.46	0	90.8	70	130	14.0	22.1	
Surr: BFB	650		618.5		105	84	116	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBW	Batch ID:	R6020	RunNo:	6020					
Prep Date:		Analysis Date:	10/5/2012	SeqNo:	173451	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	21		20.00		104	69.8	119			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	5ml-rb	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBS	Batch ID:	R6144	RunNo:	6144					
Prep Date:		Analysis Date:	10/10/2012	SeqNo:	177071	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
1-Methylnaphthalene	ND	0.20								
2-Methylnaphthalene	ND	0.20								
Acetone	ND	0.75								
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.10								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.10								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.10								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	5ml-rb	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBS	Batch ID:	R6144	RunNo:	6144					
Prep Date:		Analysis Date:	10/10/2012	SeqNo:	177071	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	ND	0.15								
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.2	70	130			
Surr: 4-Bromofluorobenzene	0.39		0.5000		78.8	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		107	70	130			
Surr: Toluene-d8	0.42		0.5000		84.4	70	130			

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	LCSS	Batch ID:	R6144	RunNo:	6144					
Prep Date:		Analysis Date:	10/10/2012	SeqNo:	177073	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.050	1.000	0	99.1	70	130			
Toluene	0.98	0.050	1.000	0	98.5	80	120			
Chlorobenzene	0.93	0.050	1.000	0	92.7	70	130			
1,1-Dichloroethene	1.0	0.050	1.000	0	104	74	124			
Trichloroethene (TCE)	0.92	0.050	1.000	0	92.3	70	130			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.2	70	130			
Surr: 4-Bromofluorobenzene	0.40		0.5000		79.4	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	100ng lcs		SampType: LCS		TestCode: EPA Method 8260B: VOLATILES					
Client ID:	LCSS		Batch ID: R6144		RunNo: 6144					
Prep Date:			Analysis Date: 10/10/2012		SeqNo: 177073		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.55		0.5000		110	70	130			
Surr: Toluene-d8	0.42		0.5000		83.9	70	130			

Sample ID	1210279-001B MS		SampType: MS		TestCode: EPA Method 8260B: VOLATILES					
Client ID:	SWMU 1-2 (6-8')		Batch ID: R6144		RunNo: 6144					
Prep Date:			Analysis Date: 10/10/2012		SeqNo: 177076		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.67	0.050	0.6719	0	99.5	80.9	118			
Toluene	0.57	0.050	0.6719	0	84.7	69.5	119			
Chlorobenzene	0.60	0.050	0.6719	0	89.8	75.7	115			
1,1-Dichloroethene	0.68	0.050	0.6719	0	101	68.6	126			
Trichloroethene (TCE)	0.65	0.050	0.6719	0	97.0	68.7	115			
Surr: 1,2-Dichloroethane-d4	0.29		0.3360		87.7	70	130			
Surr: 4-Bromofluorobenzene	0.26		0.3360		78.3	70	130			
Surr: Dibromofluoromethane	0.35		0.3360		103	70	130			
Surr: Toluene-d8	0.25		0.3360		74.4	70	130			

Sample ID	1210279-001B MSD		SampType: MSD		TestCode: EPA Method 8260B: VOLATILES					
Client ID:	SWMU 1-2 (6-8')		Batch ID: R6144		RunNo: 6144					
Prep Date:			Analysis Date: 10/10/2012		SeqNo: 177077		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.68	0.050	0.6719	0	101	80.9	118	1.54	20	
Toluene	0.58	0.050	0.6719	0	85.9	69.5	119	1.42	20	
Chlorobenzene	0.63	0.050	0.6719	0	93.1	75.7	115	3.54	20	
1,1-Dichloroethene	0.68	0.050	0.6719	0	101	68.6	126	0.179	24.8	
Trichloroethene (TCE)	0.65	0.050	0.6719	0	97.2	68.7	115	0.171	20	
Surr: 1,2-Dichloroethane-d4	0.30		0.3360		89.5	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.25		0.3360		73.6	70	130	0	0	
Surr: Dibromofluoromethane	0.39		0.3360		117	70	130	0	0	
Surr: Toluene-d8	0.24		0.3360		72.6	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4139		SampType: MBLK		TestCode: Method 8260B/5035LOW: VOLATILES					
Client ID:	PBS		Batch ID: 4139		RunNo: 6123					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 176473		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00100								
Toluene	ND	0.00100								
Ethylbenzene	ND	0.00100								
Xylenes, Total	ND	0.00200								
Methyl tert-butyl ether (MTBE)	ND	0.00100								
1,2,4-Trimethylbenzene	ND	0.00100								
1,3,5-Trimethylbenzene	ND	0.00100								
1,2-Dichloroethane (EDC)	ND	0.00100								
1,2-Dibromoethane (EDB)	ND	0.00100								
Naphthalene	ND	0.00200								
1-Methylnaphthalene	ND	0.00400								
2-Methylnaphthalene	ND	0.00400								
Acetone	ND	0.0100								
Bromobenzene	ND	0.00100								
Bromodichloromethane	ND	0.00100								
Bromoform	ND	0.00100								
Bromomethane	ND	0.00100								
2-Butanone	ND	0.0100								
Carbon tetrachloride	ND	0.00100								
Chlorobenzene	ND	0.00100								
Chloroethane	ND	0.00100								
Chloroform	ND	0.00100								
Chloromethane	ND	0.00100								
2-Chlorotoluene	ND	0.00100								
Carbon disulfide	ND	0.0100								
4-Chlorotoluene	ND	0.00100								
cis-1,2-DCE	ND	0.00100								
cis-1,3-Dichloropropene	ND	0.00100								
1,2-Dibromo-3-chloropropane	ND	0.00100								
Dibromochloromethane	ND	0.00100								
Dibromomethane	ND	0.00100								
1,2-Dichlorobenzene	ND	0.00100								
1,3-Dichlorobenzene	ND	0.00100								
1,4-Dichlorobenzene	ND	0.00100								
Dichlorodifluoromethane	ND	0.00100								
1,1-Dichloroethane	ND	0.00100								
1,1-Dichloroethene	ND	0.00100								
1,2-Dichloropropane	ND	0.00100								
1,3-Dichloropropane	ND	0.00100								
2,2-Dichloropropane	ND	0.00100								
1,1-Dichloropropene	ND	0.00100								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4139		SampType: MBLK		TestCode: Method 8260B/5035LOW: VOLATILES					
Client ID:	PBS		Batch ID: 4139		RunNo: 6123					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 176473		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.00100								
Isopropylbenzene	ND	0.00100								
4-Isopropyltoluene	ND	0.00100								
Methylene chloride	ND	0.00300								
n-Butylbenzene	ND	0.00100								
2-Hexanone	ND	0.0100								
n-Propylbenzene	ND	0.00100								
sec-Butylbenzene	ND	0.00100								
Styrene	ND	0.00100								
4-Methyl-2-pentanone	ND	0.0100								
tert-Butylbenzene	ND	0.00100								
1,1,1,2-Tetrachloroethane	ND	0.00100								
1,1,2,2-Tetrachloroethane	ND	0.00100								
Tetrachloroethene (PCE)	ND	0.00100								
trans-1,2-DCE	ND	0.00100								
trans-1,3-Dichloropropene	ND	0.00100								
1,2,3-Trichlorobenzene	ND	0.00100								
1,2,4-Trichlorobenzene	ND	0.00100								
1,1,1-Trichloroethane	ND	0.00100								
1,1,2-Trichloroethane	ND	0.00100								
Trichloroethene (TCE)	ND	0.00100								
Trichlorofluoromethane	ND	0.00100								
1,2,3-Trichloropropane	ND	0.00100								
Vinyl chloride	ND	0.00100								
Surr: 1,2-Dichloroethane-d4	43.5		50.00		86.9	70	130			
Surr: 4-Bromofluorobenzene	48.2		50.00		96.4	70	130			
Surr: Dibromofluoromethane	51.1		50.00		102	70	130			
Surr: Toluene-d8	48.6		50.00		97.1	70	130			

Sample ID	lcs-4139		SampType: LCS		TestCode: Method 8260B/5035LOW: VOLATILES					
Client ID:	LCSS		Batch ID: 4139		RunNo: 6123					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 176475		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	10.6	1.00	10.00	0	106	60	140			
Toluene	9.55	1.00	10.00	0	95.5	60	140			
Chlorobenzene	9.91	1.00	10.00	0	99.1	60	140			
1,1-Dichloroethene	11.6	1.00	10.00	0	116	60	140			
Trichloroethene (TCE)	9.40	1.00	10.00	0	94.0	60	140			
Surr: 1,2-Dichloroethane-d4	45.7		50.00		91.3	70	130			
Surr: 4-Bromofluorobenzene	39.6		50.00		79.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	lcs-4139		SampType: LCS		TestCode: Method 8260B/5035LOW: VOLATILES					
Client ID:	LCSS		Batch ID: 4139		RunNo: 6123					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 176475		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	49.3		50.00		98.5	70	130			
Surr: Toluene-d8	47.1		50.00		94.2	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	5ml rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID: R5993			RunNo: 5993					
Prep Date:		Analysis Date: 10/4/2012			SeqNo: 172673		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	5ml rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID: R5993			RunNo: 5993					
Prep Date:		Analysis Date: 10/4/2012			SeqNo: 172673		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		99.6	70	130			
Surr: 4-Bromofluorobenzene	9.3		10.00		93.4	70	130			
Surr: Dibromofluoromethane	9.5		10.00		95.1	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Sample ID	100ng lcs	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID: R5993			RunNo: 5993					
Prep Date:		Analysis Date: 10/4/2012			SeqNo: 172697		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.9	70	130			
Toluene	22	1.0	20.00	0	112	80	120			
Chlorobenzene	21	1.0	20.00	0	103	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	101	73.7	122			
Trichloroethene (TCE)	22	1.0	20.00	0	108	70	130			
Surr: 1,2-Dichloroethane-d4	9.0		10.00		89.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID:	R5993	RunNo:	5993					
Prep Date:		Analysis Date:	10/4/2012	SeqNo:	172697	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	9.6		10.00		95.7	70	130			
Surr: Toluene-d8	10		10.00		99.5	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4140		SampType: MBLK		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	PBS		Batch ID: 4140		RunNo: 6106					
Prep Date:	10/5/2012		Analysis Date: 10/9/2012		SeqNo: 176018		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Azobenzene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Benzoic acid	ND	0.50								
Benzyl alcohol	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	ND	0.50								
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	ND	0.50								
Di-n-octyl phthalate	ND	0.25								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3'-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.40								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4140	SampType: MBLK		TestCode: EPA Method 8270C: Semivolatiles						
Client ID:	PBS	Batch ID: 4140		RunNo: 6106						
Prep Date:	10/5/2012	Analysis Date: 10/9/2012		SeqNo: 176018			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoranthene	ND	0.20								
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
1-Methylnaphthalene	ND	0.20								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2,4,6-Tribromophenol	2.3		3.330		68.7	21.3	145			
Surr: 2-Fluorobiphenyl	0.94		1.670		56.2	20	131			
Surr: 2-Fluorophenol	2.0		3.330		59.6	11.9	130			
Surr: 4-Terphenyl-d14	0.96		1.670		57.5	25.1	149			
Surr: Nitrobenzene-d5	1.0		1.670		59.9	25.6	137			
Surr: Phenol-d5	2.1		3.330		62.9	20.3	132			

Sample ID	lcs-4140		SampType: LCS		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	LCSS		Batch ID: 4140		RunNo: 6106					
Prep Date:	10/5/2012		Analysis Date: 10/9/2012		SeqNo: 176019		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	Ics-4140		SampType: LCS		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	LCSS		Batch ID: 4140		RunNo: 6106					
Prep Date:	10/5/2012		Analysis Date: 10/9/2012		SeqNo: 176019		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.99	0.20	1.670	0	59.5	49.7	98.1			
4-Chloro-3-methylphenol	2.2	0.50	3.330	0	65.1	43.8	89.1			
2-Chlorophenol	1.9	0.20	3.330	0	57.0	41.1	96.9			
1,4-Dichlorobenzene	0.91	0.20	1.670	0	54.6	41	97.4			
2,4-Dinitrotoluene	1.2	0.50	1.670	0	70.7	44.4	104			
N-Nitrosodi-n-propylamine	1.1	0.20	1.670	0	65.0	39.1	86.9			
4-Nitrophenol	2.1	0.25	3.330	0	62.6	44.2	107			
Pentachlorophenol	1.5	0.40	3.330	0	44.9	36.2	80			
Phenol	2.0	0.20	3.330	0	60.0	42.7	92.7			
Pyrene	0.90	0.20	1.670	0	53.9	34.7	98.8			
1,2,4-Trichlorobenzene	0.88	0.20	1.670	0	52.9	37.8	98.3			
Surr: 2,4,6-Tribromophenol	2.5		3.330		74.6	21.3	145			
Surr: 2-Fluorobiphenyl	1.1		1.670		66.2	20	131			
Surr: 2-Fluorophenol	1.9		3.330		55.8	11.9	130			
Surr: 4-Terphenyl-d14	1.1		1.670		64.8	25.1	149			
Surr: Nitrobenzene-d5	1.0		1.670		60.3	25.6	137			
Surr: Phenol-d5	2.1		3.330		63.6	20.3	132			

Sample ID	1210279-012CMS		SampType: MS		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	SWMU 1-3 (19.5-20')		Batch ID: 4140		RunNo: 6106					
Prep Date:	10/5/2012		Analysis Date: 10/9/2012		SeqNo: 176040		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.3	0.20	1.684	0	76.6	38.6	100			
4-Chloro-3-methylphenol	2.7	0.50	3.358	0	79.2	35.8	108			
2-Chlorophenol	2.4	0.20	3.358	0	72.3	48.2	96.1			
1,4-Dichlorobenzene	1.1	0.20	1.684	0	66.4	42.5	97.6			
2,4-Dinitrotoluene	1.6	0.50	1.684	0	92.4	51.2	108			
N-Nitrosodi-n-propylamine	1.1	0.20	1.684	0	67.5	31.6	114			
4-Nitrophenol	2.8	0.25	3.358	0	82.3	22.7	144			
Pentachlorophenol	2.1	0.40	3.358	0	61.1	24	109			
Phenol	2.6	0.20	3.358	0	76.4	33.1	108			
Pyrene	1.2	0.20	1.684	0	69.2	42.7	98.9			
1,2,4-Trichlorobenzene	1.1	0.20	1.684	0	64.3	27.1	118			
Surr: 2,4,6-Tribromophenol	2.9		3.358		86.1	21.3	145			
Surr: 2-Fluorobiphenyl	1.2		1.684		73.8	20	131			
Surr: 2-Fluorophenol	2.5		3.358		75.3	11.9	130			
Surr: 4-Terphenyl-d14	1.2		1.684		70.1	25.1	149			
Surr: Nitrobenzene-d5	1.2		1.684		73.1	25.6	137			
Surr: Phenol-d5	2.7		3.358		79.5	20.3	132			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210279-012CMSD		SampType: MSD		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	SWMU 1-3 (19.5-20')		Batch ID: 4140		RunNo: 6106					
Prep Date:	10/5/2012		Analysis Date: 10/9/2012		SeqNo: 176041		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.2	0.20	1.667	0	74.1	38.6	100	4.39	20	
4-Chloro-3-methylphenol	2.7	0.50	3.324	0	82.1	35.8	108	2.56	20	
2-Chlorophenol	2.3	0.20	3.324	0	68.8	48.2	96.1	5.93	20	
1,4-Dichlorobenzene	1.0	0.20	1.667	0	62.1	42.5	97.6	7.84	20	
2,4-Dinitrotoluene	1.6	0.50	1.667	0	95.5	51.2	108	2.29	20	
N-Nitrosodi-n-propylamine	1.1	0.20	1.667	0	66.7	31.6	114	2.25	20	
4-Nitrophenol	2.9	0.25	3.324	0	88.4	22.7	144	6.14	20	
Pentachlorophenol	2.1	0.40	3.324	0	64.0	24	109	3.56	20	
Phenol	2.3	0.20	3.324	0	69.6	33.1	108	10.3	20	
Pyrene	1.2	0.20	1.667	0	71.4	42.7	98.9	2.04	20	
1,2,4-Trichlorobenzene	1.1	0.20	1.667	0	66.7	27.1	118	2.65	20	
Surr: 2,4,6-Tribromophenol	3.0		3.324		89.8	21.3	145	0	0	
Surr: 2-Fluorobiphenyl	1.2		1.667		71.8	20	131	0	0	
Surr: 2-Fluorophenol	2.4		3.324		72.3	11.9	130	0	0	
Surr: 4-Terphenyl-d14	1.2		1.667		72.5	25.1	149	0	0	
Surr: Nitrobenzene-d5	1.3		1.667		76.8	25.6	137	0	0	
Surr: Phenol-d5	2.6		3.324		77.9	20.3	132	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4129		SampType: MBLK		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	PBW		Batch ID: 4129		RunNo: 6065					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 174758		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	10								
Acenaphthylene	ND	10								
Aniline	ND	10								
Anthracene	ND	10								
Azobenzene	ND	10								
Benz(a)anthracene	ND	10								
Benzo(a)pyrene	ND	10								
Benzo(b)fluoranthene	ND	10								
Benzo(g,h,i)perylene	ND	10								
Benzo(k)fluoranthene	ND	10								
Benzoic acid	ND	20								
Benzyl alcohol	ND	10								
Bis(2-chloroethoxy)methane	ND	10								
Bis(2-chloroethyl)ether	ND	10								
Bis(2-chloroisopropyl)ether	ND	10								
Bis(2-ethylhexyl)phthalate	ND	10								
4-Bromophenyl phenyl ether	ND	10								
Butyl benzyl phthalate	ND	10								
Carbazole	ND	10								
4-Chloro-3-methylphenol	ND	10								
4-Chloroaniline	ND	10								
2-Chloronaphthalene	ND	10								
2-Chlorophenol	ND	10								
4-Chlorophenyl phenyl ether	ND	10								
Chrysene	ND	10								
Di-n-butyl phthalate	ND	10								
Di-n-octyl phthalate	ND	10								
Dibenz(a,h)anthracene	ND	10								
Dibenzofuran	ND	10								
1,2-Dichlorobenzene	ND	10								
1,3-Dichlorobenzene	ND	10								
1,4-Dichlorobenzene	ND	10								
3,3'-Dichlorobenzidine	ND	10								
Diethyl phthalate	ND	10								
Dimethyl phthalate	ND	10								
2,4-Dichlorophenol	ND	20								
2,4-Dimethylphenol	ND	10								
4,6-Dinitro-2-methylphenol	ND	20								
2,4-Dinitrophenol	ND	20								
2,4-Dinitrotoluene	ND	10								
2,6-Dinitrotoluene	ND	10								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4129		SampType: MBLK		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	PBW		Batch ID: 4129		RunNo: 6065					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 174758		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoranthene	ND	10								
Fluorene	ND	10								
Hexachlorobenzene	ND	10								
Hexachlorobutadiene	ND	10								
Hexachlorocyclopentadiene	ND	10								
Hexachloroethane	ND	10								
Indeno(1,2,3-cd)pyrene	ND	10								
Isophorone	ND	10								
1-Methylnaphthalene	ND	10								
2-Methylnaphthalene	ND	10								
2-Methylphenol	ND	10								
3+4-Methylphenol	ND	10								
N-Nitrosodi-n-propylamine	ND	10								
N-Nitrosodimethylamine	ND	10								
N-Nitrosodiphenylamine	ND	10								
Naphthalene	ND	10								
2-Nitroaniline	ND	10								
3-Nitroaniline	ND	10								
4-Nitroaniline	ND	10								
Nitrobenzene	ND	10								
2-Nitrophenol	ND	10								
4-Nitrophenol	ND	10								
Pentachlorophenol	ND	20								
Phenanthrene	ND	10								
Phenol	ND	10								
Pyrene	ND	10								
Pyridine	ND	10								
1,2,4-Trichlorobenzene	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
Surr: 2,4,6-Tribromophenol	180		200.0		88.6	44.2	126			
Surr: 2-Fluorobiphenyl	74		100.0		73.9	37	114			
Surr: 2-Fluorophenol	140		200.0		70.6	23.4	98			
Surr: 4-Terphenyl-d14	77		100.0		76.8	41.3	116			
Surr: Nitrobenzene-d5	90		100.0		89.6	39.5	118			
Surr: Phenol-d5	110		200.0		54.8	20.9	95.9			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	lcs-4129		SampType: LCS			TestCode: EPA Method 8270C: Semivolatiles				
Client ID:	LCSW		Batch ID: 4129			RunNo: 6065				
Prep Date:	10/5/2012		Analysis Date: 10/8/2012			SeqNo: 174759		Units: µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	69	10	100.0	0	68.6	38.2	99.4			
4-Chloro-3-methylphenol	170	10	200.0	0	82.8	35.5	108			
2-Chlorophenol	150	10	200.0	0	75.2	29.8	106			
1,4-Dichlorobenzene	59	10	100.0	0	58.6	32.6	91.5			
2,4-Dinitrotoluene	87	10	100.0	0	87.2	44.7	112			
N-Nitrosodi-n-propylamine	74	10	100.0	0	73.7	38.5	105			
4-Nitrophenol	95	10	200.0	0	47.3	11.6	73.1			
Pentachlorophenol	110	20	200.0	0	55.9	20.2	93			
Phenol	96	10	200.0	0	48.1	23	66.1			
Pyrene	67	10	100.0	0	67.3	40.1	101			
1,2,4-Trichlorobenzene	63	10	100.0	0	63.3	37.7	99.1			
Surr: 2,4,6-Tribromophenol	180		200.0		88.8	44.2	126			
Surr: 2-Fluorobiphenyl	65		100.0		65.2	37	114			
Surr: 2-Fluorophenol	120		200.0		61.3	23.4	98			
Surr: 4-Terphenyl-d14	69		100.0		68.7	41.3	116			
Surr: Nitrobenzene-d5	78		100.0		78.2	39.5	118			
Surr: Phenol-d5	110		200.0		52.5	20.9	95.9			

Sample ID	lcsd-4129		SampType: LCS		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	LCSS02		Batch ID: 4129		RunNo: 6065					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 174760		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	70	10	100.0	0	70.5	38.2	99.4	2.79	20	
4-Chloro-3-methylphenol	170	10	200.0	0	85.2	35.5	108	2.83	20	
2-Chlorophenol	150	10	200.0	0	74.9	29.8	106	0.386	20	
1,4-Dichlorobenzene	60	10	100.0	0	59.7	32.6	91.5	1.93	20	
2,4-Dinitrotoluene	91	10	100.0	0	91.1	44.7	112	4.31	20	
N-Nitrosodi-n-propylamine	75	10	100.0	0	74.7	38.5	105	1.27	20	
4-Nitrophenol	100	10	200.0	0	50.7	11.6	73.1	6.98	20	
Pentachlorophenol	110	20	200.0	0	55.9	20.2	93	0.0536	20	
Phenol	89	10	200.0	0	44.7	23	66.1	7.41	20	
Pyrene	74	10	100.0	0	74.0	40.1	101	9.37	20	
1,2,4-Trichlorobenzene	64	10	100.0	0	63.9	37.7	99.1	0.943	20	
Surr: 2,4,6-Tribromophenol	170		200.0		84.4	44.2	126	0	0	
Surr: 2-Fluorobiphenyl	65		100.0		65.0	37	114	0	0	
Surr: 2-Fluorophenol	110		200.0		55.6	23.4	98	0	0	
Surr: 4-Terphenyl-d14	75		100.0		75.1	41.3	116	0	0	
Surr: Nitrobenzene-d5	76		100.0		76.1	39.5	118	0	0	
Surr: Phenol-d5	94		200.0		47.1	20.9	95.9	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4086		SampType: MBLK		TestCode: EPA Method 7471: Mercury					
Client ID:	PBS		Batch ID: 4086		RunNo: 6082					
Prep Date:	10/8/2012		Analysis Date: 10/9/2012		SeqNo: 175476		Units: mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercurv	ND	0.033								

Sample ID	LCS-4086		SampType: LCS		TestCode: EPA Method 7471: Mercury					
Client ID:	LCSS		Batch ID: 4086		RunNo: 6082					
Prep Date:	10/8/2012		Analysis Date: 10/9/2012		SeqNo: 175477		Units: mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.17	0.033	0.1667	0	104	80	120			

Sample ID	1210279-008CMS		SampType: MS		TestCode: EPA Method 7471: Mercury					
Client ID:	SWMU 1-3 (2-4')		Batch ID: 4086		RunNo: 6082					
Prep Date:	10/8/2012		Analysis Date: 10/9/2012		SeqNo: 175510		Units: mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.15	0.033	0.1665	0.01287	84.9	75	125			

Sample ID	1210279-008CMSD		SampType: MSD		TestCode: EPA Method 7471: Mercury					
Client ID:	SWMU 1-3 (2-4')		Batch ID: 4086		RunNo: 6082					
Prep Date:	10/8/2012		Analysis Date: 10/9/2012		SeqNo: 175511		Units: mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.15	0.033	0.1686	0.01287	82.8	75	125	1.08	20	

Sample ID	MB-4150		SampType: MBLK		TestCode: EPA Method 7471: Mercury					
Client ID:	PBS		Batch ID: 4150		RunNo: 6082					
Prep Date:	10/8/2012		Analysis Date: 10/9/2012		SeqNo: 175512		Units: mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033								

Sample ID	LCS-4150		SampType: LCS		TestCode: EPA Method 7471: Mercury					
Client ID:	LCSS		Batch ID: 4150		RunNo: 6082					
Prep Date:	10/8/2012		Analysis Date: 10/9/2012		SeqNo: 175513		Units: mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.19	0.033	0.1667	0	117	80	120			

Sample ID	1210332-015CMS		SampType: MS		TestCode: EPA Method 7471: Mercury					
Client ID:	BatchQC		Batch ID: 4150		RunNo: 6082					
Prep Date:	10/8/2012		Analysis Date: 10/9/2012		SeqNo: 175534		Units: mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.18	0.033	0.1635	0	108	75	125			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210332-015CMSD			SampType:	MSD		TestCode:	EPA Method 7471: Mercury			
Client ID:	BatchQC		Batch ID:		4150		RunNo:	6082			
Prep Date:	10/8/2012		Analysis Date:		10/9/2012		SeqNo:	175535		Units:	mg/kg
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Mercury	0.18	0.033	0.1662	0	108	75	125	1.95	20		

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4300	SampType:	MBLK	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	PBS	Batch ID:	4300	RunNo:	6281					
Prep Date:	10/15/2012	Analysis Date:	10/16/2012	SeqNo:	181006	Units:	mg/Kg			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	2.5								
Arsenic	ND	2.5								
Barium	ND	0.10								
Beryllium	ND	0.15								
Cadmium	ND	0.10								
Chromium	ND	0.30								
Cobalt	ND	0.30								
Lead	ND	0.25								
Manganese	ND	0.10								
Nickel	ND	0.50								
Selenium	ND	2.5								
Silver	ND	0.25								
Vanadium	ND	2.5								
Zinc	ND	2.5								

Sample ID	LCS-4300	SampType:	LCS	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	LCSS	Batch ID:	4300	RunNo:	6281					
Prep Date:	10/15/2012	Analysis Date:	10/16/2012	SeqNo:	181012	Units:	mg/Kg			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	24	2.5	25.00	0.9150	90.4	80	120			
Arsenic	27	2.5	25.00	0	107	80	120			
Barium	25	0.10	25.00	0	101	80	120			
Beryllium	27	0.15	25.00	0	108	80	120			
Cadmium	26	0.10	25.00	0	104	80	120			
Chromium	25	0.30	25.00	0	100	80	120			
Cobalt	25	0.30	25.00	0	100	80	120			
Lead	26	0.25	25.00	0	103	80	120			
Manganese	25	0.10	25.00	0.05000	99.4	80	120			
Nickel	25	0.50	25.00	0	99.0	80	120			
Selenium	26	2.5	25.00	0	105	80	120			
Silver	5.2	0.25	5.000	0	104	80	120			
Vanadium	26	2.5	25.00	0	103	80	120			
Zinc	26	2.5	25.00	0	104	80	120			

Sample ID	MB-4300	SampType:	MBLK	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	PBS	Batch ID:	4300	RunNo:	6310					
Prep Date:	10/15/2012	Analysis Date:	10/17/2012	SeqNo:	181592	Units:	mg/Kg			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	ND	1.0								

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	LCS-4300		SampType: LCS		TestCode: EPA Method 6010B: Soil Metals					
Client ID:	LCSS		Batch ID: 4300		RunNo: 6310					
Prep Date:	10/15/2012		Analysis Date: 10/17/2012		SeqNo: 181593		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	27	1.0	25.00	0	108	80	120			

Sample ID	1210583-001CMS		SampType: MS		TestCode: EPA Method 6010B: Soil Metals					
Client ID:	BatchQC		Batch ID: 4300		RunNo: 6310					
Prep Date:	10/15/2012		Analysis Date: 10/17/2012		SeqNo: 181667		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	25	0.75	24.84	0.8953	96.7	75	125			
Cadmium	22	0.50	24.84	0	90.2	75	125			
Chromium	31	1.5	24.84	12.41	74.0	75	125			S
Cobalt	26	1.5	24.84	5.546	80.5	75	125			
Lead	26	1.3	24.84	5.875	81.9	75	125			
Nickel	29	2.5	24.84	8.319	83.0	75	125			
Silver	4.6	1.3	4.967	0	92.2	75	125			
Vanadium	47	13	24.84	25.45	86.0	75	125			
Zinc	49	13	24.84	33.40	64.7	75	125			S

Sample ID	1210583-001CMSD		SampType: MSD		TestCode: EPA Method 6010B: Soil Metals					
Client ID:	BatchQC		Batch ID: 4300		RunNo: 6310					
Prep Date:	10/15/2012		Analysis Date: 10/17/2012		SeqNo: 181668		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	26	0.75	24.89	0.8953	101	75	125	4.27	20	
Cadmium	23	0.50	24.89	0	94.2	75	125	4.55	20	
Chromium	33	1.5	24.89	12.41	83.0	75	125	7.15	20	
Cobalt	27	1.5	24.89	5.546	85.8	75	125	5.17	20	
Lead	28	1.2	24.89	5.875	87.0	75	125	4.93	20	
Nickel	30	2.5	24.89	8.319	88.6	75	125	4.90	20	
Silver	4.9	1.2	4.978	0	98.0	75	125	6.31	20	
Vanadium	48	12	24.89	25.45	91.4	75	125	2.90	20	
Zinc	58	12	24.89	33.40	98.3	75	125	15.6	20	

Sample ID	1210583-001CMS	SampType: MS			TestCode: EPA Method 6010B: Soil Metals					
Client ID:	BatchQC	Batch ID: 4300			RunNo: 6437					
Prep Date:	10/15/2012	Analysis Date: 10/23/2012			SeqNo: 185157		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	12	24.84	0	30.6	75	125			S
Arsenic	25	12	24.84	0	102	75	125			
Selenium	13	12	24.84	0	53.6	75	125			S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210583-001CMSD	SampType:	MSD	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	BatchQC	Batch ID:	4300	RunNo:	6437					
Prep Date:	10/15/2012	Analysis Date:	10/23/2012	SeqNo:	185160	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	12	24.89	0	34.4	75	125	0	20	S
Arsenic	26	12	24.89	0	105	75	125	3.33	20	
Selenium	16	12	24.89	0	62.7	75	125	16.0	20	S

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Western Refining Gallup Work Order Number: 1210279
Received by/date: mg 10/04/12
Logged By: Ashley Gallegos 10/4/2012 8:00:00 AM AG
Completed By: Ashley Gallegos 10/4/2012 9:13:43 AM AG
Reviewed By: IO 10/04/12

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? FedEx

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☒
10. Was preservative added to bottles? Yes ☒ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

OOGE - ADDED 3mL HNO₃ FOR ACCEPTABLE pH - OOGEF - ADDED 2 PELLETS NaOH FOR ACCEPTABLE pH

of preserved
bottles checked
for pH: 2 2
(2 or >12 unless noted)
Adjusted? yes
Checked by: U

Special Handling (if applicable)

17. 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: _____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Yes			



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

November 14, 2012

Scott Crouch

Western Refining Southwest, Gallup

Rt. 3 Box 7

Gallup, NM 87301

TEL:

FAX

RE: SWMU NO.1

OrderNo.: 1210332

Dear Scott Crouch:

Hall Environmental Analysis Laboratory received 15 sample(s) on 10/5/2012 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued October 29, 2012.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (10-12')DUP

Project: SWMU NO.1

Collection Date: 10/3/2012 1:15:00 PM

Lab ID: 1210332-001

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/8/2012 9:31:27 AM
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	10/8/2012 9:31:27 AM
Surr: DNOP	95.9	77.6-140		%REC	1	10/8/2012 9:31:27 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 5:39:05 PM
Surr: BFB	108	84-116		%REC	1	10/6/2012 5:39:05 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 11:08:22 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 9:55:44 AM
Arsenic	ND	12		mg/Kg	5	10/11/2012 9:55:44 AM
Barium	870	5.0		mg/Kg	50	10/11/2012 11:42:40 AM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 9:55:44 AM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 9:55:44 AM
Chromium	6.4	1.5		mg/Kg	5	10/11/2012 9:55:44 AM
Cobalt	3.1	1.5		mg/Kg	5	10/11/2012 9:55:44 AM
Iron	9200	500		mg/Kg	500	10/11/2012 11:45:05 AM
Lead	4.4	1.2		mg/Kg	5	10/11/2012 9:55:44 AM
Manganese	1400	5.0		mg/Kg	50	10/11/2012 11:42:40 AM
Nickel	5.0	2.5		mg/Kg	5	10/11/2012 9:55:44 AM
Selenium	ND	12		mg/Kg	5	10/11/2012 9:55:44 AM
Silver	ND	1.2		mg/Kg	5	10/11/2012 9:55:44 AM
Vanadium	19	12		mg/Kg	5	10/11/2012 9:55:44 AM
Zinc	ND	12		mg/Kg	5	10/11/2012 9:55:44 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Benzoic acid	ND	0.49		mg/Kg	1	10/9/2012 7:22:09 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM

Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (10-12')DUP

Project: SWMU NO.1

Collection Date: 10/3/2012 1:15:00 PM

Lab ID: 1210332-001

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.49		mg/Kg	1	10/9/2012 7:22:09 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
4-Chloro-3-methylphenol	ND	0.49		mg/Kg	1	10/9/2012 7:22:09 PM
4-Chloroaniline	ND	0.49		mg/Kg	1	10/9/2012 7:22:09 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 7:22:09 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Di-n-butyl phthalate	ND	0.49		mg/Kg	1	10/9/2012 7:22:09 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 7:22:09 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 7:22:09 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 7:22:09 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/9/2012 7:22:09 PM
4,6-Dinitro-2-methylphenol	ND	0.49		mg/Kg	1	10/9/2012 7:22:09 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 7:22:09 PM
2,4-Dinitrotoluene	ND	0.49		mg/Kg	1	10/9/2012 7:22:09 PM
2,6-Dinitrotoluene	ND	0.49		mg/Kg	1	10/9/2012 7:22:09 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Isophorone	ND	0.49		mg/Kg	1	10/9/2012 7:22:09 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
2-Methylphenol	ND	0.49		mg/Kg	1	10/9/2012 7:22:09 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (10-12')DUP

Project: SWMU NO.1

Collection Date: 10/3/2012 1:15:00 PM

Lab ID: 1210332-001

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 7:22:09 PM
Nitrobenzene	ND	0.49		mg/Kg	1	10/9/2012 7:22:09 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 7:22:09 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 7:22:09 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Pyridine	ND	0.49		mg/Kg	1	10/9/2012 7:22:09 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Surr: 2,4,6-Tribromophenol	83.5	21.3-145		%REC	1	10/9/2012 7:22:09 PM
Surr: 2-Fluorobiphenyl	75.5	20-131		%REC	1	10/9/2012 7:22:09 PM
Surr: 2-Fluorophenol	80.0	11.9-130		%REC	1	10/9/2012 7:22:09 PM
Surr: 4-Terphenyl-d14	66.4	25.1-149		%REC	1	10/9/2012 7:22:09 PM
Surr: Nitrobenzene-d5	73.6	25.6-137		%REC	1	10/9/2012 7:22:09 PM
Surr: Phenol-d5	83.3	20.3-132		%REC	1	10/9/2012 7:22:09 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Toluene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Ethylbenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Xylenes, Total	ND	0.00197		mg/Kg	1	10/8/2012 9:56:35 PM
Methyl tert-butyl ether (MTBE)	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,2,4-Trimethylbenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,3,5-Trimethylbenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,2-Dichloroethane (EDC)	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,2-Dibromoethane (EDB)	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Naphthalene	ND	0.00197		mg/Kg	1	10/8/2012 9:56:35 PM
1-Methylnaphthalene	ND	0.00395		mg/Kg	1	10/8/2012 9:56:35 PM
2-Methylnaphthalene	ND	0.00395		mg/Kg	1	10/8/2012 9:56:35 PM
Acetone	0.0116	0.00986		mg/Kg	1	10/8/2012 9:56:35 PM
Bromobenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Bromodichloromethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Bromoform	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Bromomethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
2-Butanone	ND	0.00986		mg/Kg	1	10/8/2012 9:56:35 PM
Carbon tetrachloride	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Chlorobenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Chloroethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (10-12')DUP

Project: SWMU NO.1

Collection Date: 10/3/2012 1:15:00 PM

Lab ID: 1210332-001

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Chloromethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
2-Chlorotoluene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Carbon disulfide	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
4-Chlorotoluene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
cis-1,2-DCE	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
cis-1,3-Dichloropropene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,2-Dibromo-3-chloropropane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Dibromochloromethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Dibromomethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,2-Dichlorobenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,3-Dichlorobenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,4-Dichlorobenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Dichlorodifluoromethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,1-Dichloroethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,1-Dichloroethene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,2-Dichloropropane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,3-Dichloropropane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
2,2-Dichloropropane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,1-Dichloropropene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Hexachlorobutadiene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Isopropylbenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
4-Isopropyltoluene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Methylene chloride	ND	0.00296		mg/Kg	1	10/8/2012 9:56:35 PM
n-Butylbenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
2-Hexanone	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
n-Propylbenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
sec-Butylbenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Styrene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
4-Methyl-2-pentanone	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
tert-Butylbenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,1,1,2-Tetrachloroethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,1,2,2-Tetrachloroethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Tetrachloroethene (PCE)	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
trans-1,2-DCE	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
trans-1,3-Dichloropropene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,2,3-Trichlorobenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,2,4-Trichlorobenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,1,1-Trichloroethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,1,2-Trichloroethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Trichloroethene (TCE)	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Trichlorofluoromethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (10-12')DUP

Project: SWMU NO.1

Collection Date: 10/3/2012 1:15:00 PM

Lab ID: 1210332-001

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Vinyl chloride	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Surr: 1,2-Dichloroethane-d4	94.8	70-130		%REC	1	10/8/2012 9:56:35 PM
Surr: 4-Bromofluorobenzene	93.4	70-130		%REC	1	10/8/2012 9:56:35 PM
Surr: Dibromofluoromethane	91.9	70-130		%REC	1	10/8/2012 9:56:35 PM
Surr: Toluene-d8	92.7	70-130		%REC	1	10/8/2012 9:56:35 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (17-18')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:45:00 PM

Lab ID: 1210332-002

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/6/2012 9:43:43 PM
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	10/6/2012 9:43:43 PM
Surr: DNOP	91.0	77.6-140		%REC	1	10/6/2012 9:43:43 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	13	5.0		mg/Kg	1	10/6/2012 6:09:29 PM
Surr: BFB	105	84-116		%REC	1	10/6/2012 6:09:29 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 11:10:08 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 10:00:49 AM
Arsenic	ND	12		mg/Kg	5	10/11/2012 10:00:49 AM
Barium	370	5.0		mg/Kg	50	10/11/2012 11:48:01 AM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 10:00:49 AM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 10:00:49 AM
Chromium	7.9	1.5		mg/Kg	5	10/11/2012 10:00:49 AM
Cobalt	3.9	1.5		mg/Kg	5	10/11/2012 10:00:49 AM
Iron	10000	500		mg/Kg	500	10/11/2012 11:50:28 AM
Lead	2.7	1.2		mg/Kg	5	10/11/2012 10:00:49 AM
Manganese	570	5.0		mg/Kg	50	10/11/2012 11:48:01 AM
Nickel	6.0	2.5		mg/Kg	5	10/11/2012 10:00:49 AM
Selenium	ND	12		mg/Kg	5	10/11/2012 10:00:49 AM
Silver	ND	1.2		mg/Kg	5	10/11/2012 10:00:49 AM
Vanadium	17	12		mg/Kg	5	10/11/2012 10:00:49 AM
Zinc	17	12		mg/Kg	5	10/11/2012 10:00:49 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Benzoic acid	ND	0.50		mg/Kg	1	10/9/2012 7:51:52 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
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- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (17-18')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:45:00 PM

Lab ID: 1210332-002

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/9/2012 7:51:52 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 7:51:52 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/9/2012 7:51:52 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 7:51:52 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/9/2012 7:51:52 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 7:51:52 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 7:51:52 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 7:51:52 PM
2,4-Dimethylphenol	0.64	0.30		mg/Kg	1	10/9/2012 7:51:52 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 7:51:52 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 7:51:52 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 7:51:52 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 7:51:52 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Isophorone	ND	0.50		mg/Kg	1	10/9/2012 7:51:52 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
2-Methylnaphthalene	0.27	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
2-Methylphenol	ND	0.50		mg/Kg	1	10/9/2012 7:51:52 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (17-18')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:45:00 PM

Lab ID: 1210332-002

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 7:51:52 PM
Nitrobenzene	ND	0.50		mg/Kg	1	10/9/2012 7:51:52 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 7:51:52 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 7:51:52 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Pyridine	ND	0.50		mg/Kg	1	10/9/2012 7:51:52 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Surr: 2,4,6-Tribromophenol	109	21.3-145		%REC	1	10/9/2012 7:51:52 PM
Surr: 2-Fluorobiphenyl	93.8	20-131		%REC	1	10/9/2012 7:51:52 PM
Surr: 2-Fluorophenol	99.7	11.9-130		%REC	1	10/9/2012 7:51:52 PM
Surr: 4-Terphenyl-d14	79.3	25.1-149		%REC	1	10/9/2012 7:51:52 PM
Surr: Nitrobenzene-d5	97.5	25.6-137		%REC	1	10/9/2012 7:51:52 PM
Surr: Phenol-d5	98.0	20.3-132		%REC	1	10/9/2012 7:51:52 PM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Toluene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Ethylbenzene	0.050	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,2,4-Trimethylbenzene	0.25	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,3,5-Trimethylbenzene	0.073	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Naphthalene	0.40	0.10		mg/Kg	1	10/15/2012 7:49:26 PM
1-Methylnaphthalene	0.55	0.20		mg/Kg	1	10/15/2012 7:49:26 PM
2-Methylnaphthalene	0.93	0.20		mg/Kg	1	10/15/2012 7:49:26 PM
Acetone	ND	0.75		mg/Kg	1	10/15/2012 7:49:26 PM
Bromobenzene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Bromoform	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Bromomethane	ND	0.15		mg/Kg	1	10/15/2012 7:49:26 PM
2-Butanone	ND	0.50		mg/Kg	1	10/15/2012 7:49:26 PM
Carbon disulfide	ND	0.50		mg/Kg	1	10/15/2012 7:49:26 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	10/15/2012 7:49:26 PM
Chlorobenzene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Chloroethane	ND	0.10		mg/Kg	1	10/15/2012 7:49:26 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (17-18')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:45:00 PM

Lab ID: 1210332-002

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Chloroform	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Chloromethane	ND	0.15		mg/Kg	1	10/15/2012 7:49:26 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	10/15/2012 7:49:26 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Dibromomethane	ND	0.10		mg/Kg	1	10/15/2012 7:49:26 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	10/15/2012 7:49:26 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	10/15/2012 7:49:26 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	10/15/2012 7:49:26 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	10/15/2012 7:49:26 PM
2-Hexanone	ND	0.50		mg/Kg	1	10/15/2012 7:49:26 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	10/15/2012 7:49:26 PM
Methylene chloride	ND	0.15		mg/Kg	1	10/15/2012 7:49:26 PM
n-Butylbenzene	ND	0.15		mg/Kg	1	10/15/2012 7:49:26 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Styrene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	10/15/2012 7:49:26 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	10/15/2012 7:49:26 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (17-18')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:45:00 PM

Lab ID: 1210332-002

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Vinyl chloride	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Xylenes, Total	0.35	0.10		mg/Kg	1	10/15/2012 7:49:26 PM
Surr: 1,2-Dichloroethane-d4	95.3	70-130		%REC	1	10/15/2012 7:49:26 PM
Surr: 4-Bromofluorobenzene	89.7	70-130		%REC	1	10/15/2012 7:49:26 PM
Surr: Dibromofluoromethane	91.8	70-130		%REC	1	10/15/2012 7:49:26 PM
Surr: Toluene-d8	98.6	70-130		%REC	1	10/15/2012 7:49:26 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (23-24')

Project: SWMU NO.1

Collection Date: 10/3/2012 2:00:00 PM

Lab ID: 1210332-003

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/6/2012 10:08:49 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/6/2012 10:08:49 PM
Surr: DNOP	89.2	77.6-140		%REC	1	10/6/2012 10:08:49 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 6:25:18 AM
Surr: BFB	85.7	84-116		%REC	1	10/6/2012 6:25:18 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 11:11:55 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 10:16:19 AM
Arsenic	ND	12		mg/Kg	5	10/11/2012 10:16:19 AM
Barium	200	0.50		mg/Kg	5	10/11/2012 10:16:19 AM
Beryllium	1.1	0.75		mg/Kg	5	10/11/2012 10:16:19 AM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 10:16:19 AM
Chromium	14	1.5		mg/Kg	5	10/11/2012 10:16:19 AM
Cobalt	5.9	1.5		mg/Kg	5	10/11/2012 10:16:19 AM
Iron	18000	500		mg/Kg	500	10/11/2012 12:08:30 PM
Lead	2.1	1.2		mg/Kg	5	10/11/2012 10:16:19 AM
Manganese	340	1.0		mg/Kg	10	10/11/2012 12:06:07 PM
Nickel	12	2.5		mg/Kg	5	10/11/2012 10:16:19 AM
Selenium	ND	12		mg/Kg	5	10/11/2012 10:16:19 AM
Silver	ND	1.2		mg/Kg	5	10/11/2012 10:16:19 AM
Vanadium	15	12		mg/Kg	5	10/11/2012 10:16:19 AM
Zinc	26	12		mg/Kg	5	10/11/2012 10:16:19 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Benzoic acid	ND	0.50		mg/Kg	1	10/9/2012 8:21:38 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (23-24')

Project: SWMU NO.1

Collection Date: 10/3/2012 2:00:00 PM

Lab ID: 1210332-003

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/9/2012 8:21:38 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 8:21:38 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/9/2012 8:21:38 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 8:21:38 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/9/2012 8:21:38 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 8:21:38 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 8:21:38 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 8:21:38 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/9/2012 8:21:38 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 8:21:38 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 8:21:38 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 8:21:38 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 8:21:38 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Isophorone	ND	0.50		mg/Kg	1	10/9/2012 8:21:38 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
2-Methylphenol	ND	0.50		mg/Kg	1	10/9/2012 8:21:38 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (23-24')

Project: SWMU NO.1

Collection Date: 10/3/2012 2:00:00 PM

Lab ID: 1210332-003

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 8:21:38 PM
Nitrobenzene	ND	0.50		mg/Kg	1	10/9/2012 8:21:38 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 8:21:38 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 8:21:38 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Pyridine	ND	0.50		mg/Kg	1	10/9/2012 8:21:38 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Surr: 2,4,6-Tribromophenol	90.5	21.3-145		%REC	1	10/9/2012 8:21:38 PM
Surr: 2-Fluorobiphenyl	80.2	20-131		%REC	1	10/9/2012 8:21:38 PM
Surr: 2-Fluorophenol	88.2	11.9-130		%REC	1	10/9/2012 8:21:38 PM
Surr: 4-Terphenyl-d14	81.6	25.1-149		%REC	1	10/9/2012 8:21:38 PM
Surr: Nitrobenzene-d5	79.5	25.6-137		%REC	1	10/9/2012 8:21:38 PM
Surr: Phenol-d5	86.5	20.3-132		%REC	1	10/9/2012 8:21:38 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	0.00566	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Toluene	0.00275	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Ethylbenzene	0.00125	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Xylenes, Total	0.00218	0.00183		mg/Kg	1	10/8/2012 10:27:25 PM
Methyl tert-butyl ether (MTBE)	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,2,4-Trimethylbenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,3,5-Trimethylbenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,2-Dichloroethane (EDC)	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,2-Dibromoethane (EDB)	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Naphthalene	ND	0.00183		mg/Kg	1	10/8/2012 10:27:25 PM
1-Methylnaphthalene	ND	0.00366		mg/Kg	1	10/8/2012 10:27:25 PM
2-Methylnaphthalene	ND	0.00366		mg/Kg	1	10/8/2012 10:27:25 PM
Acetone	0.0173	0.00915		mg/Kg	1	10/8/2012 10:27:25 PM
Bromobenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Bromodichloromethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Bromoform	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Bromomethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
2-Butanone	ND	0.00915		mg/Kg	1	10/8/2012 10:27:25 PM
Carbon tetrachloride	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Chlorobenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Chloroethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (23-24')

Project: SWMU NO.1

Collection Date: 10/3/2012 2:00:00 PM

Lab ID: 1210332-003

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Chloromethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
2-Chlorotoluene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Carbon disulfide	ND	0.00915		mg/Kg	1	10/8/2012 10:27:25 PM
4-Chlorotoluene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
cis-1,2-DCE	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
cis-1,3-Dichloropropene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,2-Dibromo-3-chloropropane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Dibromochloromethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Dibromomethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,2-Dichlorobenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,3-Dichlorobenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,4-Dichlorobenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Dichlorodifluoromethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,1-Dichloroethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,1-Dichloroethene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,2-Dichloropropane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,3-Dichloropropane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
2,2-Dichloropropane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,1-Dichloropropene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Hexachlorobutadiene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Isopropylbenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
4-Isopropyltoluene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Methylene chloride	ND	0.00275		mg/Kg	1	10/8/2012 10:27:25 PM
n-Butylbenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
2-Hexanone	ND	0.00915		mg/Kg	1	10/8/2012 10:27:25 PM
n-Propylbenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
sec-Butylbenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Styrene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
4-Methyl-2-pentanone	ND	0.00915		mg/Kg	1	10/8/2012 10:27:25 PM
tert-Butylbenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,1,1,2-Tetrachloroethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,1,2,2-Tetrachloroethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Tetrachloroethene (PCE)	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
trans-1,2-DCE	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
trans-1,3-Dichloropropene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,2,3-Trichlorobenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,2,4-Trichlorobenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,1,1-Trichloroethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,1,2-Trichloroethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Trichloroethene (TCE)	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Trichlorofluoromethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (23-24')

Project: SWMU NO.1

Collection Date: 10/3/2012 2:00:00 PM

Lab ID: 1210332-003

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Vinyl chloride	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Surr: 1,2-Dichloroethane-d4	93.9	70-130		%REC	1	10/8/2012 10:27:25 PM
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	10/8/2012 10:27:25 PM
Surr: Dibromofluoromethane	92.2	70-130		%REC	1	10/8/2012 10:27:25 PM
Surr: Toluene-d8	95.4	70-130		%REC	1	10/8/2012 10:27:25 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Trip Blank

Project: SWMU NO.1

Collection Date:

Lab ID: 1210332-004

Matrix: TRIP BLANK

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Toluene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Ethylbenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Naphthalene	ND	2.0		µg/L	1	10/5/2012 7:34:04 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/5/2012 7:34:04 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/5/2012 7:34:04 PM
Acetone	ND	10		µg/L	1	10/5/2012 7:34:04 PM
Bromobenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Bromoform	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Bromomethane	ND	3.0		µg/L	1	10/5/2012 7:34:04 PM
2-Butanone	ND	10		µg/L	1	10/5/2012 7:34:04 PM
Carbon disulfide	ND	10		µg/L	1	10/5/2012 7:34:04 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Chlorobenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Chloroethane	ND	2.0		µg/L	1	10/5/2012 7:34:04 PM
Chloroform	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Chloromethane	ND	3.0		µg/L	1	10/5/2012 7:34:04 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/5/2012 7:34:04 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Dibromomethane	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/5/2012 7:34:04 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
2-Hexanone	ND	10		µg/L	1	10/5/2012 7:34:04 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Trip Blank

Project: SWMU NO.1

Collection Date:

Lab ID: 1210332-004

Matrix: TRIP BLANK

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Isopropylbenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/5/2012 7:34:04 PM
Methylene Chloride	ND	3.0		µg/L	1	10/5/2012 7:34:04 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/5/2012 7:34:04 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Styrene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/5/2012 7:34:04 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/5/2012 7:34:04 PM
Vinyl chloride	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Xylenes, Total	ND	1.5		µg/L	1	10/5/2012 7:34:04 PM
Surr: 1,2-Dichloroethane-d4	83.8	70-130		%REC	1	10/5/2012 7:34:04 PM
Surr: 4-Bromofluorobenzene	82.2	70-130		%REC	1	10/5/2012 7:34:04 PM
Surr: Dibromofluoromethane	104	70-130		%REC	1	10/5/2012 7:34:04 PM
Surr: Toluene-d8	78.4	70-130		%REC	1	10/5/2012 7:34:04 PM

Qualifiers:

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 GW

Project: SWMU NO.1

Collection Date: 10/3/2012 9:30:00 AM

Lab ID: 1210332-005

Matrix: AQUEOUS

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/8/2012 12:52:54 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/8/2012 12:52:54 PM
Surr: DNOP	119	79.5-166		%REC	1	10/8/2012 12:52:54 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.65	0.10		mg/L	2	10/6/2012 4:08:36 PM
Surr: BFB	114	69.8-119		%REC	2	10/6/2012 4:08:36 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Fluoride	0.89	0.10		mg/L	1	10/5/2012 8:47:29 PM
Chloride	1600	50		mg/L	100	10/11/2012 7:33:27 PM
Sulfate	810	10		mg/L	20	10/5/2012 8:59:53 PM
EPA METHOD 200.7: METALS						Analyst: ELS
Barium	0.54	0.0020		mg/L	1	10/16/2012 7:38:43 AM
Beryllium	0.0066	0.0020	*	mg/L	1	10/16/2012 7:38:43 AM
Cadmium	ND	0.0020		mg/L	1	10/16/2012 7:38:43 AM
Chromium	0.015	0.0060		mg/L	1	10/16/2012 7:38:43 AM
Cobalt	0.043	0.0060		mg/L	1	10/16/2012 7:38:43 AM
Iron	20	1.0	*	mg/L	50	10/16/2012 8:03:15 AM
Manganese	2.1	0.010	*	mg/L	5	10/16/2012 7:42:12 AM
Nickel	0.35	0.010	*	mg/L	1	10/16/2012 7:38:43 AM
Silver	ND	0.0050		mg/L	1	10/16/2012 7:38:43 AM
Vanadium	ND	0.050		mg/L	1	10/16/2012 7:38:43 AM
Zinc	0.068	0.010		mg/L	1	10/16/2012 7:38:43 AM
EPA 200.8: METALS						Analyst: DBD
Antimony	ND	0.0025		mg/L	2.5	10/15/2012 5:58:10 PM
Arsenic	0.015	0.0025	*	mg/L	2.5	10/15/2012 5:58:10 PM
Lead	0.057	0.0025	*	mg/L	2.5	10/15/2012 5:58:10 PM
Selenium	0.0097	0.0025		mg/L	2.5	10/15/2012 5:58:10 PM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	ND	0.00020		mg/L	1	10/12/2012 4:34:37 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Acenaphthylene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Aniline	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Anthracene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Azobenzene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Benz(a)anthracene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Benzo(a)pyrene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	10/5/2012 2:40:11 PM

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- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 GW

Project: SWMU NO.1

Collection Date: 10/3/2012 9:30:00 AM

Lab ID: 1210332-005

Matrix: AQUEOUS

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(k)fluoranthene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Benzoic acid	ND	20		µg/L	1	10/5/2012 2:40:11 PM
Benzyl alcohol	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	10/5/2012 2:40:11 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Butyl benzyl phthalate	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Carbazole	ND	10		µg/L	1	10/5/2012 2:40:11 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	10/5/2012 2:40:11 PM
4-Chloroaniline	ND	10		µg/L	1	10/5/2012 2:40:11 PM
2-Chloronaphthalene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
2-Chlorophenol	ND	10		µg/L	1	10/5/2012 2:40:11 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Chrysene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Di-n-butyl phthalate	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Di-n-octyl phthalate	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Dibenzofuran	ND	10		µg/L	1	10/5/2012 2:40:11 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Diethyl phthalate	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Dimethyl phthalate	ND	10		µg/L	1	10/5/2012 2:40:11 PM
2,4-Dichlorophenol	ND	20		µg/L	1	10/5/2012 2:40:11 PM
2,4-Dimethylphenol	ND	10		µg/L	1	10/5/2012 2:40:11 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	10/5/2012 2:40:11 PM
2,4-Dinitrophenol	ND	20		µg/L	1	10/5/2012 2:40:11 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Fluoranthene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Fluorene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Hexachlorobenzene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Hexachlorobutadiene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Hexachloroethane	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Isophorone	ND	10		µg/L	1	10/5/2012 2:40:11 PM
1-Methylnaphthalene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
2-Methylnaphthalene	ND	10		µg/L	1	10/5/2012 2:40:11 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 GW

Project: SWMU NO.1

Collection Date: 10/3/2012 9:30:00 AM

Lab ID: 1210332-005

Matrix: AQUEOUS

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylphenol	ND	10		µg/L	1	10/5/2012 2:40:11 PM
3+4-Methylphenol	ND	10		µg/L	1	10/5/2012 2:40:11 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/5/2012 2:40:11 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	10/5/2012 2:40:11 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Naphthalene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
2-Nitroaniline	ND	10		µg/L	1	10/5/2012 2:40:11 PM
3-Nitroaniline	ND	10		µg/L	1	10/5/2012 2:40:11 PM
4-Nitroaniline	ND	20		µg/L	1	10/5/2012 2:40:11 PM
Nitrobenzene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
2-Nitrophenol	ND	10		µg/L	1	10/5/2012 2:40:11 PM
4-Nitrophenol	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Pentachlorophenol	ND	20		µg/L	1	10/5/2012 2:40:11 PM
Phenanthrene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Phenol	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Pyrene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Pyridine	ND	10		µg/L	1	10/5/2012 2:40:11 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	10/5/2012 2:40:11 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Surr: 2,4,6-Tribromophenol	74.9	44.2-126		%REC	1	10/5/2012 2:40:11 PM
Surr: 2-Fluorobiphenyl	83.3	37-114		%REC	1	10/5/2012 2:40:11 PM
Surr: 2-Fluorophenol	51.8	23.4-98		%REC	1	10/5/2012 2:40:11 PM
Surr: 4-Terphenyl-d14	81.8	41.3-116		%REC	1	10/5/2012 2:40:11 PM
Surr: Nitrobenzene-d5	77.3	39.5-118		%REC	1	10/5/2012 2:40:11 PM
Surr: Phenol-d5	49.8	20.9-95.9		%REC	1	10/5/2012 2:40:11 PM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	3.4	1.0		µg/L	1	10/5/2012 8:01:37 PM
Toluene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Ethylbenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Methyl tert-butyl ether (MTBE)	40	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Naphthalene	ND	2.0		µg/L	1	10/5/2012 8:01:37 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/5/2012 8:01:37 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/5/2012 8:01:37 PM
Acetone	14	10		µg/L	1	10/5/2012 8:01:37 PM
Bromobenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 GW

Project: SWMU NO.1

Collection Date: 10/3/2012 9:30:00 AM

Lab ID: 1210332-005

Matrix: AQUEOUS

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Bromoform	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Bromomethane	ND	3.0		µg/L	1	10/5/2012 8:01:37 PM
2-Butanone	ND	10		µg/L	1	10/5/2012 8:01:37 PM
Carbon disulfide	ND	10		µg/L	1	10/5/2012 8:01:37 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Chlorobenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Chloroethane	ND	2.0		µg/L	1	10/5/2012 8:01:37 PM
Chloroform	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Chloromethane	ND	3.0		µg/L	1	10/5/2012 8:01:37 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/5/2012 8:01:37 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Dibromomethane	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/5/2012 8:01:37 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
2-Hexanone	ND	10		µg/L	1	10/5/2012 8:01:37 PM
Isopropylbenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/5/2012 8:01:37 PM
Methylene Chloride	ND	3.0		µg/L	1	10/5/2012 8:01:37 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/5/2012 8:01:37 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Styrene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/5/2012 8:01:37 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 GW

Project: SWMU NO.1

Collection Date: 10/3/2012 9:30:00 AM

Lab ID: 1210332-005

Matrix: AQUEOUS

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/5/2012 8:01:37 PM
Vinyl chloride	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Xylenes, Total	ND	1.5		µg/L	1	10/5/2012 8:01:37 PM
Surr: 1,2-Dichloroethane-d4	88.1	70-130		%REC	1	10/5/2012 8:01:37 PM
Surr: 4-Bromofluorobenzene	82.1	70-130		%REC	1	10/5/2012 8:01:37 PM
Surr: Dibromofluoromethane	101	70-130		%REC	1	10/5/2012 8:01:37 PM
Surr: Toluene-d8	104	70-130		%REC	1	10/5/2012 8:01:37 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (8-10')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:00:00 PM

Lab ID: 1210332-006

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/8/2012 9:05:40 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/8/2012 9:05:40 AM
Surr: DNOP	90.4	77.6-140		%REC	1	10/8/2012 9:05:40 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 6:55:17 AM
Surr: BFB	89.3	84-116		%REC	1	10/6/2012 6:55:17 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 11:13:42 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 10:21:28 AM
Arsenic	ND	12		mg/Kg	5	10/11/2012 10:21:28 AM
Barium	590	5.0		mg/Kg	50	10/11/2012 12:11:09 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 10:21:28 AM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 10:21:28 AM
Chromium	7.9	1.5		mg/Kg	5	10/11/2012 10:21:28 AM
Cobalt	4.0	1.5		mg/Kg	5	10/11/2012 10:21:28 AM
Iron	11000	500		mg/Kg	500	10/11/2012 12:13:37 PM
Lead	4.2	1.2		mg/Kg	5	10/11/2012 10:21:28 AM
Manganese	720	5.0		mg/Kg	50	10/11/2012 12:11:09 PM
Nickel	6.3	2.5		mg/Kg	5	10/11/2012 10:21:28 AM
Selenium	ND	12		mg/Kg	5	10/11/2012 10:21:28 AM
Silver	ND	1.2		mg/Kg	5	10/11/2012 10:21:28 AM
Vanadium	16	12		mg/Kg	5	10/11/2012 10:21:28 AM
Zinc	16	12		mg/Kg	5	10/11/2012 10:21:28 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Benzoic acid	ND	0.50		mg/Kg	1	10/9/2012 8:51:23 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (8-10')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:00:00 PM

Lab ID: 1210332-006

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/9/2012 8:51:23 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 8:51:23 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/9/2012 8:51:23 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 8:51:23 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/9/2012 8:51:23 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 8:51:23 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 8:51:23 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 8:51:23 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/9/2012 8:51:23 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 8:51:23 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 8:51:23 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 8:51:23 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 8:51:23 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Isophorone	ND	0.50		mg/Kg	1	10/9/2012 8:51:23 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
2-Methylphenol	ND	0.50		mg/Kg	1	10/9/2012 8:51:23 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (8-10')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:00:00 PM

Lab ID: 1210332-006

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 8:51:23 PM
Nitrobenzene	ND	0.50		mg/Kg	1	10/9/2012 8:51:23 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 8:51:23 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 8:51:23 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Pyridine	ND	0.50		mg/Kg	1	10/9/2012 8:51:23 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Surr: 2,4,6-Tribromophenol	96.9	21.3-145		%REC	1	10/9/2012 8:51:23 PM
Surr: 2-Fluorobiphenyl	92.7	20-131		%REC	1	10/9/2012 8:51:23 PM
Surr: 2-Fluorophenol	84.5	11.9-130		%REC	1	10/9/2012 8:51:23 PM
Surr: 4-Terphenyl-d14	80.8	25.1-149		%REC	1	10/9/2012 8:51:23 PM
Surr: Nitrobenzene-d5	87.8	25.6-137		%REC	1	10/9/2012 8:51:23 PM
Surr: Phenol-d5	84.9	20.3-132		%REC	1	10/9/2012 8:51:23 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Toluene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Ethylbenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Xylenes, Total	ND	0.00181		mg/Kg	1	10/8/2012 10:58:13 PM
Methyl tert-butyl ether (MTBE)	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,2,4-Trimethylbenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,3,5-Trimethylbenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,2-Dichloroethane (EDC)	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,2-Dibromoethane (EDB)	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Naphthalene	ND	0.00181		mg/Kg	1	10/8/2012 10:58:13 PM
1-Methylnaphthalene	ND	0.00363		mg/Kg	1	10/8/2012 10:58:13 PM
2-Methylnaphthalene	ND	0.00363		mg/Kg	1	10/8/2012 10:58:13 PM
Acetone	0.0314	0.00907		mg/Kg	1	10/8/2012 10:58:13 PM
Bromobenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Bromodichloromethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Bromoform	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Bromomethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
2-Butanone	ND	0.00907		mg/Kg	1	10/8/2012 10:58:13 PM
Carbon tetrachloride	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Chlorobenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Chloroethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (8-10')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:00:00 PM

Lab ID: 1210332-006

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Chloromethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
2-Chlorotoluene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Carbon disulfide	ND	0.00907		mg/Kg	1	10/8/2012 10:58:13 PM
4-Chlorotoluene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
cis-1,2-DCE	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
cis-1,3-Dichloropropene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,2-Dibromo-3-chloropropane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Dibromochloromethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Dibromomethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,2-Dichlorobenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,3-Dichlorobenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,4-Dichlorobenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Dichlorodifluoromethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,1-Dichloroethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,1-Dichloroethene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,2-Dichloropropane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,3-Dichloropropane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
2,2-Dichloropropane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,1-Dichloropropene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Hexachlorobutadiene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Isopropylbenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
4-Isopropyltoluene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Methylene chloride	ND	0.00272		mg/Kg	1	10/8/2012 10:58:13 PM
n-Butylbenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
2-Hexanone	ND	0.00907		mg/Kg	1	10/8/2012 10:58:13 PM
n-Propylbenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
sec-Butylbenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Styrene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
4-Methyl-2-pentanone	ND	0.00907		mg/Kg	1	10/8/2012 10:58:13 PM
tert-Butylbenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,1,1,2-Tetrachloroethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,1,2,2-Tetrachloroethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Tetrachloroethene (PCE)	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
trans-1,2-DCE	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
trans-1,3-Dichloropropene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,2,3-Trichlorobenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,2,4-Trichlorobenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,1,1-Trichloroethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,1,2-Trichloroethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Trichloroethene (TCE)	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Trichlorofluoromethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (8-10')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:00:00 PM

Lab ID: 1210332-006

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Vinyl chloride	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Surr: 1,2-Dichloroethane-d4	94.8	70-130		%REC	1	10/8/2012 10:58:13 PM
Surr: 4-Bromofluorobenzene	91.4	70-130		%REC	1	10/8/2012 10:58:13 PM
Surr: Dibromofluoromethane	93.1	70-130		%REC	1	10/8/2012 10:58:13 PM
Surr: Toluene-d8	102	70-130		%REC	1	10/8/2012 10:58:13 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (10-12')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:15:00 PM

Lab ID: 1210332-007

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	16		mg/Kg	1	10/8/2012 9:56:53 AM
Motor Oil Range Organics (MRO)	ND	82		mg/Kg	1	10/8/2012 9:56:53 AM
Surr: DNOP	91.8	77.6-140		%REC	1	10/8/2012 9:56:53 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 7:25:26 AM
Surr: BFB	96.1	84-116		%REC	1	10/6/2012 7:25:26 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 11:15:28 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 10:26:23 AM
Arsenic	ND	12		mg/Kg	5	10/11/2012 10:26:23 AM
Barium	360	5.0		mg/Kg	50	10/11/2012 12:16:30 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 10:26:23 AM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 10:26:23 AM
Chromium	3.7	1.5		mg/Kg	5	10/11/2012 10:26:23 AM
Cobalt	2.0	1.5		mg/Kg	5	10/11/2012 10:26:23 AM
Iron	5300	500		mg/Kg	500	10/11/2012 12:18:56 PM
Lead	3.1	1.2		mg/Kg	5	10/11/2012 10:26:23 AM
Manganese	550	5.0		mg/Kg	50	10/11/2012 12:16:30 PM
Nickel	2.9	2.5		mg/Kg	5	10/11/2012 10:26:23 AM
Selenium	ND	12		mg/Kg	5	10/11/2012 10:26:23 AM
Silver	ND	1.2		mg/Kg	5	10/11/2012 10:26:23 AM
Vanadium	ND	12		mg/Kg	5	10/11/2012 10:26:23 AM
Zinc	ND	12		mg/Kg	5	10/11/2012 10:26:23 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Acenaphthylene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Aniline	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Anthracene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Azobenzene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Benz(a)anthracene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Benzo(a)pyrene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Benzo(b)fluoranthene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Benzo(g,h,i)perylene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Benzo(k)fluoranthene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Benzoic acid	ND	1.0		mg/Kg	1	10/9/2012 9:20:56 PM
Benzyl alcohol	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Bis(2-chloroethoxy)methane	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Bis(2-chloroethyl)ether	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Bis(2-chloroisopropyl)ether	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (10-12')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:15:00 PM

Lab ID: 1210332-007

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg	1	10/9/2012 9:20:56 PM
4-Bromophenyl phenyl ether	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Butyl benzyl phthalate	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Carbazole	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
4-Chloro-3-methylphenol	ND	1.0		mg/Kg	1	10/9/2012 9:20:56 PM
4-Chloroaniline	ND	1.0		mg/Kg	1	10/9/2012 9:20:56 PM
2-Chloronaphthalene	ND	0.50		mg/Kg	1	10/9/2012 9:20:56 PM
2-Chlorophenol	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
4-Chlorophenyl phenyl ether	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Chrysene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Di-n-butyl phthalate	ND	1.0		mg/Kg	1	10/9/2012 9:20:56 PM
Di-n-octyl phthalate	ND	0.50		mg/Kg	1	10/9/2012 9:20:56 PM
Dibenz(a,h)anthracene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Dibenzofuran	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
1,2-Dichlorobenzene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
1,3-Dichlorobenzene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
1,4-Dichlorobenzene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
3,3'-Dichlorobenzidine	ND	0.50		mg/Kg	1	10/9/2012 9:20:56 PM
Diethyl phthalate	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Dimethyl phthalate	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
2,4-Dichlorophenol	ND	0.80		mg/Kg	1	10/9/2012 9:20:56 PM
2,4-Dimethylphenol	ND	0.60		mg/Kg	1	10/9/2012 9:20:56 PM
4,6-Dinitro-2-methylphenol	ND	1.0		mg/Kg	1	10/9/2012 9:20:56 PM
2,4-Dinitrophenol	ND	0.80		mg/Kg	1	10/9/2012 9:20:56 PM
2,4-Dinitrotoluene	ND	1.0		mg/Kg	1	10/9/2012 9:20:56 PM
2,6-Dinitrotoluene	ND	1.0		mg/Kg	1	10/9/2012 9:20:56 PM
Fluoranthene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Fluorene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Hexachlorobenzene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Hexachlorobutadiene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Hexachlorocyclopentadiene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Hexachloroethane	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Indeno(1,2,3-cd)pyrene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Isophorone	ND	1.0		mg/Kg	1	10/9/2012 9:20:56 PM
1-Methylnaphthalene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
2-Methylnaphthalene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
2-Methylphenol	ND	1.0		mg/Kg	1	10/9/2012 9:20:56 PM
3+4-Methylphenol	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
N-Nitrosodi-n-propylamine	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
N-Nitrosodiphenylamine	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Naphthalene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
2-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (10-12')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:15:00 PM

Lab ID: 1210332-007

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
4-Nitroaniline	ND	0.80		mg/Kg	1	10/9/2012 9:20:56 PM
Nitrobenzene	ND	1.0		mg/Kg	1	10/9/2012 9:20:56 PM
2-Nitrophenol	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
4-Nitrophenol	ND	0.50		mg/Kg	1	10/9/2012 9:20:56 PM
Pentachlorophenol	ND	0.80		mg/Kg	1	10/9/2012 9:20:56 PM
Phenanthrene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Phenol	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Pyrene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Pyridine	ND	1.0		mg/Kg	1	10/9/2012 9:20:56 PM
1,2,4-Trichlorobenzene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
2,4,5-Trichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
2,4,6-Trichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Surr: 2,4,6-Tribromophenol	97.4	21.3-145		%REC	1	10/9/2012 9:20:56 PM
Surr: 2-Fluorobiphenyl	90.6	20-131		%REC	1	10/9/2012 9:20:56 PM
Surr: 2-Fluorophenol	104	11.9-130		%REC	1	10/9/2012 9:20:56 PM
Surr: 4-Terphenyl-d14	79.0	25.1-149		%REC	1	10/9/2012 9:20:56 PM
Surr: Nitrobenzene-d5	92.0	25.6-137		%REC	1	10/9/2012 9:20:56 PM
Surr: Phenol-d5	95.8	20.3-132		%REC	1	10/9/2012 9:20:56 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Toluene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Ethylbenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Xylenes, Total	ND	0.00227		mg/Kg	1	10/8/2012 11:29:01 PM
Methyl tert-butyl ether (MTBE)	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,2,4-Trimethylbenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,3,5-Trimethylbenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,2-Dichloroethane (EDC)	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,2-Dibromoethane (EDB)	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Naphthalene	ND	0.00227		mg/Kg	1	10/8/2012 11:29:01 PM
1-Methylnaphthalene	ND	0.00453		mg/Kg	1	10/8/2012 11:29:01 PM
2-Methylnaphthalene	ND	0.00453		mg/Kg	1	10/8/2012 11:29:01 PM
Acetone	0.0153	0.0113		mg/Kg	1	10/8/2012 11:29:01 PM
Bromobenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Bromodichloromethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Bromoform	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Bromomethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
2-Butanone	ND	0.0113		mg/Kg	1	10/8/2012 11:29:01 PM
Carbon tetrachloride	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Chlorobenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Chloroethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (10-12')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:15:00 PM

Lab ID: 1210332-007

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Chloromethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
2-Chlorotoluene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Carbon disulfide	ND	0.0113		mg/Kg	1	10/8/2012 11:29:01 PM
4-Chlorotoluene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
cis-1,2-DCE	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
cis-1,3-Dichloropropene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,2-Dibromo-3-chloropropane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Dibromochloromethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Dibromomethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,2-Dichlorobenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,3-Dichlorobenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,4-Dichlorobenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Dichlorodifluoromethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,1-Dichloroethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,1-Dichloroethene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,2-Dichloropropane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,3-Dichloropropane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
2,2-Dichloropropane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,1-Dichloropropene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Hexachlorobutadiene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Isopropylbenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
4-Isopropyltoluene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Methylene chloride	ND	0.00340		mg/Kg	1	10/8/2012 11:29:01 PM
n-Butylbenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
2-Hexanone	ND	0.0113		mg/Kg	1	10/8/2012 11:29:01 PM
n-Propylbenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
sec-Butylbenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Styrene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
4-Methyl-2-pentanone	ND	0.0113		mg/Kg	1	10/8/2012 11:29:01 PM
tert-Butylbenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,1,1,2-Tetrachloroethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,1,2,2-Tetrachloroethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Tetrachloroethene (PCE)	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
trans-1,2-DCE	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
trans-1,3-Dichloropropene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,2,3-Trichlorobenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,2,4-Trichlorobenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,1,1-Trichloroethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,1,2-Trichloroethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Trichloroethene (TCE)	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Trichlorofluoromethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (10-12')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:15:00 PM

Lab ID: 1210332-007

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Vinyl chloride	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Surr: 1,2-Dichloroethane-d4	95.2	70-130		%REC	1	10/8/2012 11:29:01 PM
Surr: 4-Bromofluorobenzene	87.2	70-130		%REC	1	10/8/2012 11:29:01 PM
Surr: Dibromofluoromethane	104	70-130		%REC	1	10/8/2012 11:29:01 PM
Surr: Toluene-d8	103	70-130		%REC	1	10/8/2012 11:29:01 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (26-27')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:20:00 PM

Lab ID: 1210332-008

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	12		mg/Kg	1	10/6/2012 10:33:54 PM
Motor Oil Range Organics (MRO)	ND	59		mg/Kg	1	10/6/2012 10:33:54 PM
Surr: DNOP	88.2	77.6-140		%REC	1	10/6/2012 10:33:54 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/8/2012 6:56:09 PM
Surr: BFB	113	84-116		%REC	1	10/8/2012 6:56:09 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 11:17:13 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	2.5		mg/Kg	1	10/11/2012 10:28:52 AM
Arsenic	ND	2.5		mg/Kg	1	10/11/2012 10:28:52 AM
Barium	230	0.50		mg/Kg	5	10/11/2012 10:31:19 AM
Beryllium	0.30	0.15		mg/Kg	1	10/11/2012 10:28:52 AM
Cadmium	ND	0.10		mg/Kg	1	10/11/2012 10:28:52 AM
Chromium	5.1	0.30		mg/Kg	1	10/11/2012 10:28:52 AM
Cobalt	2.1	0.30		mg/Kg	1	10/11/2012 10:28:52 AM
Iron	5900	500		mg/Kg	500	10/11/2012 12:21:48 PM
Lead	0.57	0.25		mg/Kg	1	10/11/2012 10:28:52 AM
Manganese	200	0.50		mg/Kg	5	10/11/2012 10:31:19 AM
Nickel	3.5	0.50		mg/Kg	1	10/11/2012 10:28:52 AM
Selenium	ND	2.5		mg/Kg	1	10/11/2012 10:28:52 AM
Silver	ND	0.25		mg/Kg	1	10/11/2012 10:28:52 AM
Vanadium	8.6	2.5		mg/Kg	1	10/11/2012 10:28:52 AM
Zinc	8.5	2.5		mg/Kg	1	10/11/2012 10:28:52 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Acenaphthylene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Aniline	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Anthracene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Azobenzene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Benz(a)anthracene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Benzo(a)pyrene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Benzo(b)fluoranthene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Benzo(g,h,i)perylene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Benzo(k)fluoranthene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Benzoic acid	ND	0.99		mg/Kg	1	10/9/2012 9:50:28 PM
Benzyl alcohol	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Bis(2-chloroethoxy)methane	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Bis(2-chloroethyl)ether	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Bis(2-chloroisopropyl)ether	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (26-27')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:20:00 PM

Lab ID: 1210332-008

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.99		mg/Kg	1	10/9/2012 9:50:28 PM
4-Bromophenyl phenyl ether	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Butyl benzyl phthalate	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Carbazole	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
4-Chloro-3-methylphenol	ND	0.99		mg/Kg	1	10/9/2012 9:50:28 PM
4-Chloroaniline	ND	0.99		mg/Kg	1	10/9/2012 9:50:28 PM
2-Chloronaphthalene	ND	0.49		mg/Kg	1	10/9/2012 9:50:28 PM
2-Chlorophenol	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
4-Chlorophenyl phenyl ether	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Chrysene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Di-n-butyl phthalate	ND	0.99		mg/Kg	1	10/9/2012 9:50:28 PM
Di-n-octyl phthalate	ND	0.49		mg/Kg	1	10/9/2012 9:50:28 PM
Dibenz(a,h)anthracene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Dibenzofuran	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
1,2-Dichlorobenzene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
1,3-Dichlorobenzene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
1,4-Dichlorobenzene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
3,3'-Dichlorobenzidine	ND	0.49		mg/Kg	1	10/9/2012 9:50:28 PM
Diethyl phthalate	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Dimethyl phthalate	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
2,4-Dichlorophenol	ND	0.79		mg/Kg	1	10/9/2012 9:50:28 PM
2,4-Dimethylphenol	ND	0.59		mg/Kg	1	10/9/2012 9:50:28 PM
4,6-Dinitro-2-methylphenol	ND	0.99		mg/Kg	1	10/9/2012 9:50:28 PM
2,4-Dinitrophenol	ND	0.79		mg/Kg	1	10/9/2012 9:50:28 PM
2,4-Dinitrotoluene	ND	0.99		mg/Kg	1	10/9/2012 9:50:28 PM
2,6-Dinitrotoluene	ND	0.99		mg/Kg	1	10/9/2012 9:50:28 PM
Fluoranthene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Fluorene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Hexachlorobenzene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Hexachlorobutadiene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Hexachlorocyclopentadiene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Hexachloroethane	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Indeno(1,2,3-cd)pyrene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Isophorone	ND	0.99		mg/Kg	1	10/9/2012 9:50:28 PM
1-Methylnaphthalene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
2-Methylnaphthalene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
2-Methylphenol	ND	0.99		mg/Kg	1	10/9/2012 9:50:28 PM
3+4-Methylphenol	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
N-Nitrosodi-n-propylamine	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
N-Nitrosodiphenylamine	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Naphthalene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
2-Nitroaniline	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (26-27')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:20:00 PM

Lab ID: 1210332-008

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
4-Nitroaniline	ND	0.79		mg/Kg	1	10/9/2012 9:50:28 PM
Nitrobenzene	ND	0.99		mg/Kg	1	10/9/2012 9:50:28 PM
2-Nitrophenol	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
4-Nitrophenol	ND	0.49		mg/Kg	1	10/9/2012 9:50:28 PM
Pentachlorophenol	ND	0.79		mg/Kg	1	10/9/2012 9:50:28 PM
Phenanthrene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Phenol	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Pyrene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Pyridine	ND	0.99		mg/Kg	1	10/9/2012 9:50:28 PM
1,2,4-Trichlorobenzene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
2,4,5-Trichlorophenol	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
2,4,6-Trichlorophenol	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Surr: 2,4,6-Tribromophenol	70.4	21.3-145		%REC	1	10/9/2012 9:50:28 PM
Surr: 2-Fluorobiphenyl	65.2	20-131		%REC	1	10/9/2012 9:50:28 PM
Surr: 2-Fluorophenol	65.4	11.9-130		%REC	1	10/9/2012 9:50:28 PM
Surr: 4-Terphenyl-d14	61.6	25.1-149		%REC	1	10/9/2012 9:50:28 PM
Surr: Nitrobenzene-d5	64.1	25.6-137		%REC	1	10/9/2012 9:50:28 PM
Surr: Phenol-d5	66.6	20.3-132		%REC	1	10/9/2012 9:50:28 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	0.00594	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Toluene	0.00831	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Ethylbenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Xylenes, Total	ND	0.00202		mg/Kg	1	10/8/2012 11:59:48 PM
Methyl tert-butyl ether (MTBE)	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,2,4-Trimethylbenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,3,5-Trimethylbenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,2-Dichloroethane (EDC)	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,2-Dibromoethane (EDB)	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Naphthalene	ND	0.00202		mg/Kg	1	10/8/2012 11:59:48 PM
1-Methylnaphthalene	ND	0.00404		mg/Kg	1	10/8/2012 11:59:48 PM
2-Methylnaphthalene	ND	0.00404		mg/Kg	1	10/8/2012 11:59:48 PM
Acetone	0.0233	0.0101		mg/Kg	1	10/8/2012 11:59:48 PM
Bromobenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Bromodichloromethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Bromoform	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Bromomethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
2-Butanone	ND	0.0101		mg/Kg	1	10/8/2012 11:59:48 PM
Carbon tetrachloride	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Chlorobenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Chloroethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (26-27')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:20:00 PM

Lab ID: 1210332-008

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Chloromethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
2-Chlorotoluene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Carbon disulfide	ND	0.0101		mg/Kg	1	10/8/2012 11:59:48 PM
4-Chlorotoluene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
cis-1,2-DCE	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
cis-1,3-Dichloropropene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,2-Dibromo-3-chloropropane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Dibromochloromethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Dibromomethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,2-Dichlorobenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,3-Dichlorobenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,4-Dichlorobenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Dichlorodifluoromethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,1-Dichloroethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,1-Dichloroethene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,2-Dichloropropane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,3-Dichloropropane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
2,2-Dichloropropane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,1-Dichloropropene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Hexachlorobutadiene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Isopropylbenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
4-Isopropyltoluene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Methylene chloride	ND	0.00303		mg/Kg	1	10/8/2012 11:59:48 PM
n-Butylbenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
2-Hexanone	ND	0.0101		mg/Kg	1	10/8/2012 11:59:48 PM
n-Propylbenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
sec-Butylbenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Styrene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
4-Methyl-2-pentanone	ND	0.0101		mg/Kg	1	10/8/2012 11:59:48 PM
tert-Butylbenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,1,1,2-Tetrachloroethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,1,2,2-Tetrachloroethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Tetrachloroethene (PCE)	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
trans-1,2-DCE	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
trans-1,3-Dichloropropene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,2,3-Trichlorobenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,2,4-Trichlorobenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,1,1-Trichloroethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,1,2-Trichloroethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Trichloroethene (TCE)	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Trichlorofluoromethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (26-27')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:20:00 PM

Lab ID: 1210332-008

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Vinyl chloride	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Surr: 1,2-Dichloroethane-d4	105	70-130		%REC	1	10/8/2012 11:59:48 PM
Surr: 4-Bromofluorobenzene	87.5	70-130		%REC	1	10/8/2012 11:59:48 PM
Surr: Dibromofluoromethane	100	70-130		%REC	1	10/8/2012 11:59:48 PM
Surr: Toluene-d8	95.7	70-130		%REC	1	10/8/2012 11:59:48 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (27-28')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:30:00 PM

Lab ID: 1210332-009

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/6/2012 10:58:59 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/6/2012 10:58:59 PM
Surr: DNOP	89.3	77.6-140		%REC	1	10/6/2012 10:58:59 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 7:40:09 PM
Surr: BFB	98.1	84-116		%REC	1	10/6/2012 7:40:09 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 11:19:00 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 2:31:31 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 2:31:31 PM
Barium	380	5.0		mg/Kg	50	10/11/2012 12:24:38 PM
Beryllium	1.1	0.75		mg/Kg	5	10/11/2012 10:45:59 AM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 10:45:59 AM
Chromium	15	1.5		mg/Kg	5	10/11/2012 10:45:59 AM
Cobalt	7.8	1.5		mg/Kg	5	10/11/2012 10:45:59 AM
Iron	17000	500		mg/Kg	500	10/11/2012 12:27:03 PM
Lead	ND	1.2		mg/Kg	5	10/11/2012 10:45:59 AM
Manganese	640	5.0		mg/Kg	50	10/11/2012 12:24:38 PM
Nickel	12	2.5		mg/Kg	5	10/11/2012 10:45:59 AM
Selenium	ND	12		mg/Kg	5	10/11/2012 10:45:59 AM
Silver	ND	1.2		mg/Kg	5	10/11/2012 10:45:59 AM
Vanadium	22	12		mg/Kg	5	10/11/2012 10:45:59 AM
Zinc	31	12		mg/Kg	5	10/11/2012 10:45:59 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Benzoic acid	ND	0.50		mg/Kg	1	10/9/2012 10:19:57 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (27-28')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:30:00 PM

Lab ID: 1210332-009

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/9/2012 10:19:57 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 10:19:57 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/9/2012 10:19:57 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 10:19:57 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/9/2012 10:19:57 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 10:19:57 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 10:19:57 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 10:19:57 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/9/2012 10:19:57 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 10:19:57 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 10:19:57 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 10:19:57 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 10:19:57 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Isophorone	ND	0.50		mg/Kg	1	10/9/2012 10:19:57 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
2-Methylphenol	ND	0.50		mg/Kg	1	10/9/2012 10:19:57 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (27-28')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:30:00 PM

Lab ID: 1210332-009

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 10:19:57 PM
Nitrobenzene	ND	0.50		mg/Kg	1	10/9/2012 10:19:57 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 10:19:57 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 10:19:57 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Pyridine	ND	0.50		mg/Kg	1	10/9/2012 10:19:57 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Surr: 2,4,6-Tribromophenol	84.9	21.3-145		%REC	1	10/9/2012 10:19:57 PM
Surr: 2-Fluorobiphenyl	77.2	20-131		%REC	1	10/9/2012 10:19:57 PM
Surr: 2-Fluorophenol	79.7	11.9-130		%REC	1	10/9/2012 10:19:57 PM
Surr: 4-Terphenyl-d14	76.5	25.1-149		%REC	1	10/9/2012 10:19:57 PM
Surr: Nitrobenzene-d5	87.1	25.6-137		%REC	1	10/9/2012 10:19:57 PM
Surr: Phenol-d5	79.7	20.3-132		%REC	1	10/9/2012 10:19:57 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	0.00158	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Toluene	0.00101	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Ethylbenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Xylenes, Total	ND	0.00199		mg/Kg	1	10/9/2012 12:30:33 AM
Methyl tert-butyl ether (MTBE)	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,2,4-Trimethylbenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,3,5-Trimethylbenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,2-Dichloroethane (EDC)	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,2-Dibromoethane (EDB)	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Naphthalene	ND	0.00199		mg/Kg	1	10/9/2012 12:30:33 AM
1-Methylnaphthalene	ND	0.00398		mg/Kg	1	10/9/2012 12:30:33 AM
2-Methylnaphthalene	ND	0.00398		mg/Kg	1	10/9/2012 12:30:33 AM
Acetone	ND	0.00995		mg/Kg	1	10/9/2012 12:30:33 AM
Bromobenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Bromodichloromethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Bromoform	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Bromomethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
2-Butanone	ND	0.00995		mg/Kg	1	10/9/2012 12:30:33 AM
Carbon tetrachloride	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Chlorobenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Chloroethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (27-28')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:30:00 PM

Lab ID: 1210332-009

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Chloromethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
2-Chlorotoluene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Carbon disulfide	ND	0.00995		mg/Kg	1	10/9/2012 12:30:33 AM
4-Chlorotoluene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
cis-1,2-DCE	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
cis-1,3-Dichloropropene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,2-Dibromo-3-chloropropane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Dibromochloromethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Dibromomethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,2-Dichlorobenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,3-Dichlorobenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,4-Dichlorobenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Dichlorodifluoromethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,1-Dichloroethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,1-Dichloroethene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,2-Dichloropropane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,3-Dichloropropane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
2,2-Dichloropropane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,1-Dichloropropene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Hexachlorobutadiene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Isopropylbenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
4-Isopropyltoluene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Methylene chloride	ND	0.00299		mg/Kg	1	10/9/2012 12:30:33 AM
n-Butylbenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
2-Hexanone	ND	0.00995		mg/Kg	1	10/9/2012 12:30:33 AM
n-Propylbenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
sec-Butylbenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Styrene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
4-Methyl-2-pentanone	ND	0.00995		mg/Kg	1	10/9/2012 12:30:33 AM
tert-Butylbenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,1,1,2-Tetrachloroethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,1,2,2-Tetrachloroethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Tetrachloroethene (PCE)	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
trans-1,2-DCE	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
trans-1,3-Dichloropropene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,2,3-Trichlorobenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,2,4-Trichlorobenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,1,1-Trichloroethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,1,2-Trichloroethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Trichloroethene (TCE)	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Trichlorofluoromethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (27-28')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:30:00 PM

Lab ID: 1210332-009

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Vinyl chloride	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Surr: 1,2-Dichloroethane-d4	98.7	70-130		%REC	1	10/9/2012 12:30:33 AM
Surr: 4-Bromofluorobenzene	97.4	70-130		%REC	1	10/9/2012 12:30:33 AM
Surr: Dibromofluoromethane	104	70-130		%REC	1	10/9/2012 12:30:33 AM
Surr: Toluene-d8	97.1	70-130		%REC	1	10/9/2012 12:30:33 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100312

Project: SWMU NO.1

Collection Date: 10/3/2012 6:44:00 PM

Lab ID: 1210332-010

Matrix: AQUEOUS

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/8/2012 1:14:39 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/8/2012 1:14:39 PM
Surr: DNOP	118	79.5-166		%REC	1	10/8/2012 1:14:39 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/5/2012 11:51:04 PM
Surr: BFB	113	69.8-119		%REC	1	10/5/2012 11:51:04 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Fluoride	ND	0.10		mg/L	1	10/5/2012 9:12:18 PM
Chloride	ND	0.50		mg/L	1	10/5/2012 9:12:18 PM
Sulfate	ND	0.50		mg/L	1	10/5/2012 9:12:18 PM
EPA METHOD 200.7: METALS						Analyst: JLF
Barium	ND	0.0020		mg/L	1	10/10/2012 8:08:55 PM
Beryllium	ND	0.0020		mg/L	1	10/10/2012 8:08:55 PM
Cadmium	ND	0.0020		mg/L	1	10/10/2012 8:08:55 PM
Chromium	ND	0.0060		mg/L	1	10/12/2012 7:42:29 AM
Cobalt	ND	0.0060		mg/L	1	10/10/2012 8:08:55 PM
Iron	0.025	0.020		mg/L	1	10/10/2012 8:08:55 PM
Manganese	ND	0.0020		mg/L	1	10/10/2012 8:08:55 PM
Nickel	ND	0.010		mg/L	1	10/10/2012 8:08:55 PM
Silver	ND	0.0050		mg/L	1	10/10/2012 8:08:55 PM
Vanadium	ND	0.050		mg/L	1	10/10/2012 8:08:55 PM
Zinc	ND	0.010		mg/L	1	10/12/2012 7:42:29 AM
EPA 200.8: METALS						Analyst: DBD
Antimony	ND	0.0010		mg/L	1	10/17/2012 11:13:21 AM
Arsenic	ND	0.0010		mg/L	1	10/17/2012 11:13:21 AM
Lead	ND	0.0010		mg/L	1	10/17/2012 11:13:21 AM
Selenium	ND	0.0010		mg/L	1	10/17/2012 11:13:21 AM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	ND	0.00020		mg/L	1	10/12/2012 4:36:48 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Acenaphthylene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Aniline	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Anthracene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Azobenzene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Benz(a)anthracene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Benzo(a)pyrene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	10/5/2012 3:09:51 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100312

Project: SWMU NO.1

Collection Date: 10/3/2012 6:44:00 PM

Lab ID: 1210332-010

Matrix: AQUEOUS

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(k)fluoranthene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Benzoic acid	ND	20		µg/L	1	10/5/2012 3:09:51 PM
Benzyl alcohol	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	10/5/2012 3:09:51 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Butyl benzyl phthalate	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Carbazole	ND	10		µg/L	1	10/5/2012 3:09:51 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	10/5/2012 3:09:51 PM
4-Chloroaniline	ND	10		µg/L	1	10/5/2012 3:09:51 PM
2-Chloronaphthalene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
2-Chlorophenol	ND	10		µg/L	1	10/5/2012 3:09:51 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Chrysene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Di-n-butyl phthalate	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Di-n-octyl phthalate	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Dibenzofuran	ND	10		µg/L	1	10/5/2012 3:09:51 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Diethyl phthalate	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Dimethyl phthalate	ND	10		µg/L	1	10/5/2012 3:09:51 PM
2,4-Dichlorophenol	ND	20		µg/L	1	10/5/2012 3:09:51 PM
2,4-Dimethylphenol	ND	10		µg/L	1	10/5/2012 3:09:51 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	10/5/2012 3:09:51 PM
2,4-Dinitrophenol	ND	20		µg/L	1	10/5/2012 3:09:51 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Fluoranthene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Fluorene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Hexachlorobenzene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Hexachlorobutadiene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Hexachloroethane	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Isophorone	ND	10		µg/L	1	10/5/2012 3:09:51 PM
1-Methylnaphthalene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
2-Methylnaphthalene	ND	10		µg/L	1	10/5/2012 3:09:51 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100312

Project: SWMU NO.1

Collection Date: 10/3/2012 6:44:00 PM

Lab ID: 1210332-010

Matrix: AQUEOUS

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylphenol	ND	10		µg/L	1	10/5/2012 3:09:51 PM
3+4-Methylphenol	ND	10		µg/L	1	10/5/2012 3:09:51 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/5/2012 3:09:51 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	10/5/2012 3:09:51 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Naphthalene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
2-Nitroaniline	ND	10		µg/L	1	10/5/2012 3:09:51 PM
3-Nitroaniline	ND	10		µg/L	1	10/5/2012 3:09:51 PM
4-Nitroaniline	ND	20		µg/L	1	10/5/2012 3:09:51 PM
Nitrobenzene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
2-Nitrophenol	ND	10		µg/L	1	10/5/2012 3:09:51 PM
4-Nitrophenol	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Pentachlorophenol	ND	20		µg/L	1	10/5/2012 3:09:51 PM
Phenanthrene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Phenol	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Pyrene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Pyridine	ND	10		µg/L	1	10/5/2012 3:09:51 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	10/5/2012 3:09:51 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Surr: 2,4,6-Tribromophenol	92.9	44.2-126		%REC	1	10/5/2012 3:09:51 PM
Surr: 2-Fluorobiphenyl	89.6	37-114		%REC	1	10/5/2012 3:09:51 PM
Surr: 2-Fluorophenol	69.2	23.4-98		%REC	1	10/5/2012 3:09:51 PM
Surr: 4-Terphenyl-d14	83.7	41.3-116		%REC	1	10/5/2012 3:09:51 PM
Surr: Nitrobenzene-d5	91.5	39.5-118		%REC	1	10/5/2012 3:09:51 PM
Surr: Phenol-d5	51.7	20.9-95.9		%REC	1	10/5/2012 3:09:51 PM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Toluene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Ethylbenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Naphthalene	ND	2.0		µg/L	1	10/5/2012 8:29:24 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/5/2012 8:29:24 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/5/2012 8:29:24 PM
Acetone	ND	10		µg/L	1	10/5/2012 8:29:24 PM
Bromobenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100312

Project: SWMU NO.1

Collection Date: 10/3/2012 6:44:00 PM

Lab ID: 1210332-010

Matrix: AQUEOUS

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Bromoform	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Bromomethane	ND	3.0		µg/L	1	10/5/2012 8:29:24 PM
2-Butanone	ND	10		µg/L	1	10/5/2012 8:29:24 PM
Carbon disulfide	ND	10		µg/L	1	10/5/2012 8:29:24 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Chlorobenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Chloroethane	ND	2.0		µg/L	1	10/5/2012 8:29:24 PM
Chloroform	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Chloromethane	ND	3.0		µg/L	1	10/5/2012 8:29:24 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/5/2012 8:29:24 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Dibromomethane	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/5/2012 8:29:24 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
2-Hexanone	ND	10		µg/L	1	10/5/2012 8:29:24 PM
Isopropylbenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/5/2012 8:29:24 PM
Methylene Chloride	ND	3.0		µg/L	1	10/5/2012 8:29:24 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/5/2012 8:29:24 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Styrene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/5/2012 8:29:24 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100312

Project: SWMU NO.1

Collection Date: 10/3/2012 6:44:00 PM

Lab ID: 1210332-010

Matrix: AQUEOUS

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/5/2012 8:29:24 PM
Vinyl chloride	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Xylenes, Total	ND	1.5		µg/L	1	10/5/2012 8:29:24 PM
Surr: 1,2-Dichloroethane-d4	82.3	70-130		%REC	1	10/5/2012 8:29:24 PM
Surr: 4-Bromofluorobenzene	80.0	70-130		%REC	1	10/5/2012 8:29:24 PM
Surr: Dibromofluoromethane	89.2	70-130		%REC	1	10/5/2012 8:29:24 PM
Surr: Toluene-d8	80.0	70-130		%REC	1	10/5/2012 8:29:24 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MeOH Blank 100312

Project: SWMU NO.1

Collection Date:

Lab ID: 1210332-011

Matrix: MEOH BLAN

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 8:10:15 PM
Surr: BFB	77.0	84-116	S	%REC	1	10/6/2012 8:10:15 PM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Toluene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Naphthalene	ND	0.10		mg/Kg	1	10/15/2012 8:46:00 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/15/2012 8:46:00 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/15/2012 8:46:00 PM
Acetone	ND	0.75		mg/Kg	1	10/15/2012 8:46:00 PM
Bromobenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Bromoform	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Bromomethane	ND	0.15		mg/Kg	1	10/15/2012 8:46:00 PM
2-Butanone	ND	0.50		mg/Kg	1	10/15/2012 8:46:00 PM
Carbon disulfide	ND	0.50		mg/Kg	1	10/15/2012 8:46:00 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	10/15/2012 8:46:00 PM
Chlorobenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Chloroethane	ND	0.10		mg/Kg	1	10/15/2012 8:46:00 PM
Chloroform	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Chloromethane	ND	0.15		mg/Kg	1	10/15/2012 8:46:00 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	10/15/2012 8:46:00 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Dibromomethane	ND	0.10		mg/Kg	1	10/15/2012 8:46:00 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	10/15/2012 8:46:00 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MeOH Blank 100312

Project: SWMU NO.1

Collection Date:

Lab ID: 1210332-011

Matrix: MEOH BLAN

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
2,2-Dichloropropane	ND	0.10		mg/Kg	1	10/15/2012 8:46:00 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	10/15/2012 8:46:00 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	10/15/2012 8:46:00 PM
2-Hexanone	ND	0.50		mg/Kg	1	10/15/2012 8:46:00 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	10/15/2012 8:46:00 PM
Methylene chloride	ND	0.15		mg/Kg	1	10/15/2012 8:46:00 PM
n-Butylbenzene	ND	0.15		mg/Kg	1	10/15/2012 8:46:00 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Styrene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	10/15/2012 8:46:00 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	10/15/2012 8:46:00 PM
Vinyl chloride	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/15/2012 8:46:00 PM
Surr: 1,2-Dichloroethane-d4	93.6	70-130		%REC	1	10/15/2012 8:46:00 PM
Surr: 4-Bromofluorobenzene	92.2	70-130		%REC	1	10/15/2012 8:46:00 PM
Surr: Dibromofluoromethane	94.4	70-130		%REC	1	10/15/2012 8:46:00 PM
Surr: Toluene-d8	99.2	70-130		%REC	1	10/15/2012 8:46:00 PM

Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (10-12')

Project: SWMU NO.1

Collection Date: 10/3/2012 5:30:00 PM

Lab ID: 1210332-012

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/8/2012 10:22:00 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/8/2012 10:22:00 AM
Surr: DNOP	99.0	77.6-140		%REC	1	10/8/2012 10:22:00 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 8:40:29 PM
Surr: BFB	103	84-116		%REC	1	10/6/2012 8:40:29 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 11:38:40 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 11:00:15 AM
Arsenic	ND	12		mg/Kg	5	10/11/2012 11:00:15 AM
Barium	610	5.0		mg/Kg	50	10/11/2012 12:31:20 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 11:00:15 AM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 11:00:15 AM
Chromium	11	1.5		mg/Kg	5	10/11/2012 11:00:15 AM
Cobalt	3.3	1.5		mg/Kg	5	10/11/2012 11:00:15 AM
Iron	9200	500		mg/Kg	500	10/11/2012 12:44:37 PM
Lead	3.9	1.2		mg/Kg	5	10/11/2012 11:00:15 AM
Manganese	1300	5.0		mg/Kg	50	10/11/2012 12:31:20 PM
Nickel	4.5	2.5		mg/Kg	5	10/11/2012 11:00:15 AM
Selenium	ND	12		mg/Kg	5	10/11/2012 11:00:15 AM
Silver	ND	1.2		mg/Kg	5	10/11/2012 11:00:15 AM
Vanadium	15	12		mg/Kg	5	10/11/2012 11:00:15 AM
Zinc	ND	12		mg/Kg	5	10/11/2012 11:00:15 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Benzoic acid	ND	0.50		mg/Kg	1	10/9/2012 10:49:25 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (10-12')

Project: SWMU NO.1

Collection Date: 10/3/2012 5:30:00 PM

Lab ID: 1210332-012

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/9/2012 10:49:25 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 10:49:25 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/9/2012 10:49:25 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 10:49:25 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/9/2012 10:49:25 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 10:49:25 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 10:49:25 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 10:49:25 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/9/2012 10:49:25 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 10:49:25 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 10:49:25 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 10:49:25 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 10:49:25 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Isophorone	ND	0.50		mg/Kg	1	10/9/2012 10:49:25 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
2-Methylphenol	ND	0.50		mg/Kg	1	10/9/2012 10:49:25 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM

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- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (10-12')

Project: SWMU NO.1

Collection Date: 10/3/2012 5:30:00 PM

Lab ID: 1210332-012

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 10:49:25 PM
Nitrobenzene	ND	0.50		mg/Kg	1	10/9/2012 10:49:25 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 10:49:25 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 10:49:25 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Pyridine	ND	0.50		mg/Kg	1	10/9/2012 10:49:25 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Surr: 2,4,6-Tribromophenol	96.0	21.3-145		%REC	1	10/9/2012 10:49:25 PM
Surr: 2-Fluorobiphenyl	82.9	20-131		%REC	1	10/9/2012 10:49:25 PM
Surr: 2-Fluorophenol	82.0	11.9-130		%REC	1	10/9/2012 10:49:25 PM
Surr: 4-Terphenyl-d14	76.7	25.1-149		%REC	1	10/9/2012 10:49:25 PM
Surr: Nitrobenzene-d5	80.1	25.6-137		%REC	1	10/9/2012 10:49:25 PM
Surr: Phenol-d5	80.7	20.3-132		%REC	1	10/9/2012 10:49:25 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Toluene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Ethylbenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Xylenes, Total	ND	0.00182		mg/Kg	1	10/9/2012 1:01:16 AM
Methyl tert-butyl ether (MTBE)	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,2,4-Trimethylbenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,3,5-Trimethylbenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,2-Dichloroethane (EDC)	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,2-Dibromoethane (EDB)	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Naphthalene	ND	0.00182		mg/Kg	1	10/9/2012 1:01:16 AM
1-Methylnaphthalene	ND	0.00363		mg/Kg	1	10/9/2012 1:01:16 AM
2-Methylnaphthalene	ND	0.00363		mg/Kg	1	10/9/2012 1:01:16 AM
Acetone	0.0614	0.00909		mg/Kg	1	10/9/2012 1:01:16 AM
Bromobenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Bromodichloromethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Bromoform	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Bromomethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
2-Butanone	0.0142	0.00909		mg/Kg	1	10/9/2012 1:01:16 AM
Carbon tetrachloride	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Chlorobenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Chloroethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM

Qualifiers:

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- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (10-12')

Project: SWMU NO.1

Collection Date: 10/3/2012 5:30:00 PM

Lab ID: 1210332-012

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Chloromethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
2-Chlorotoluene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Carbon disulfide	ND	0.00909		mg/Kg	1	10/9/2012 1:01:16 AM
4-Chlorotoluene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
cis-1,2-DCE	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
cis-1,3-Dichloropropene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,2-Dibromo-3-chloropropane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Dibromochloromethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Dibromomethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,2-Dichlorobenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,3-Dichlorobenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,4-Dichlorobenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Dichlorodifluoromethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,1-Dichloroethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,1-Dichloroethene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,2-Dichloropropane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,3-Dichloropropane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
2,2-Dichloropropane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,1-Dichloropropene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Hexachlorobutadiene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Isopropylbenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
4-Isopropyltoluene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Methylene chloride	ND	0.00273		mg/Kg	1	10/9/2012 1:01:16 AM
n-Butylbenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
2-Hexanone	ND	0.00909		mg/Kg	1	10/9/2012 1:01:16 AM
n-Propylbenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
sec-Butylbenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Styrene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
4-Methyl-2-pentanone	ND	0.00909		mg/Kg	1	10/9/2012 1:01:16 AM
tert-Butylbenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,1,1,2-Tetrachloroethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,1,2,2-Tetrachloroethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Tetrachloroethene (PCE)	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
trans-1,2-DCE	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
trans-1,3-Dichloropropene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,2,3-Trichlorobenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,2,4-Trichlorobenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,1,1-Trichloroethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,1,2-Trichloroethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Trichloroethene (TCE)	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Trichlorofluoromethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
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- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (10-12')

Project: SWMU NO.1

Collection Date: 10/3/2012 5:30:00 PM

Lab ID: 1210332-012

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Vinyl chloride	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Surr: 1,2-Dichloroethane-d4	100	70-130		%REC	1	10/9/2012 1:01:16 AM
Surr: 4-Bromofluorobenzene	106	70-130		%REC	1	10/9/2012 1:01:16 AM
Surr: Dibromofluoromethane	105	70-130		%REC	1	10/9/2012 1:01:16 AM
Surr: Toluene-d8	106	70-130		%REC	1	10/9/2012 1:01:16 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (14-16')

Project: SWMU NO.1

Collection Date: 10/3/2012 5:45:00 PM

Lab ID: 1210332-013

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/6/2012 11:24:06 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/6/2012 11:24:06 PM
Surr: DNOP	99.0	77.6-140		%REC	1	10/6/2012 11:24:06 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 9:40:48 PM
Surr: BFB	95.0	84-116		%REC	1	10/6/2012 9:40:48 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 11:40:27 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 11:05:28 AM
Arsenic	ND	12		mg/Kg	5	10/11/2012 11:05:28 AM
Barium	640	5.0		mg/Kg	50	10/11/2012 12:47:28 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 11:05:28 AM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 11:05:28 AM
Chromium	11	1.5		mg/Kg	5	10/11/2012 11:05:28 AM
Cobalt	3.9	1.5		mg/Kg	5	10/11/2012 11:05:28 AM
Iron	11000	500		mg/Kg	500	10/11/2012 12:49:54 PM
Lead	4.4	1.2		mg/Kg	5	10/11/2012 11:05:28 AM
Manganese	1200	5.0		mg/Kg	50	10/11/2012 12:47:28 PM
Nickel	5.9	2.5		mg/Kg	5	10/11/2012 11:05:28 AM
Selenium	ND	12		mg/Kg	5	10/11/2012 11:05:28 AM
Silver	ND	1.2		mg/Kg	5	10/11/2012 11:05:28 AM
Vanadium	19	12		mg/Kg	5	10/11/2012 11:05:28 AM
Zinc	14	12		mg/Kg	5	10/11/2012 11:05:28 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Benzoic acid	ND	0.50		mg/Kg	1	10/9/2012 11:18:52 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (14-16')

Project: SWMU NO.1

Collection Date: 10/3/2012 5:45:00 PM

Lab ID: 1210332-013

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/9/2012 11:18:52 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 11:18:52 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/9/2012 11:18:52 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 11:18:52 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/9/2012 11:18:52 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 11:18:52 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 11:18:52 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 11:18:52 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/9/2012 11:18:52 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 11:18:52 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 11:18:52 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 11:18:52 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 11:18:52 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Isophorone	ND	0.50		mg/Kg	1	10/9/2012 11:18:52 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
2-Methylphenol	ND	0.50		mg/Kg	1	10/9/2012 11:18:52 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (14-16')

Project: SWMU NO.1

Collection Date: 10/3/2012 5:45:00 PM

Lab ID: 1210332-013

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 11:18:52 PM
Nitrobenzene	ND	0.50		mg/Kg	1	10/9/2012 11:18:52 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 11:18:52 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 11:18:52 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Pyridine	ND	0.50		mg/Kg	1	10/9/2012 11:18:52 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Surr: 2,4,6-Tribromophenol	99.8	21.3-145		%REC	1	10/9/2012 11:18:52 PM
Surr: 2-Fluorobiphenyl	87.7	20-131		%REC	1	10/9/2012 11:18:52 PM
Surr: 2-Fluorophenol	94.2	11.9-130		%REC	1	10/9/2012 11:18:52 PM
Surr: 4-Terphenyl-d14	78.0	25.1-149		%REC	1	10/9/2012 11:18:52 PM
Surr: Nitrobenzene-d5	91.1	25.6-137		%REC	1	10/9/2012 11:18:52 PM
Surr: Phenol-d5	93.7	20.3-132		%REC	1	10/9/2012 11:18:52 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Toluene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Ethylbenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Xylenes, Total	ND	0.00189		mg/Kg	1	10/9/2012 1:32:00 AM
Methyl tert-butyl ether (MTBE)	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,2,4-Trimethylbenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,3,5-Trimethylbenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,2-Dichloroethane (EDC)	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,2-Dibromoethane (EDB)	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Naphthalene	ND	0.00189		mg/Kg	1	10/9/2012 1:32:00 AM
1-Methylnaphthalene	ND	0.00379		mg/Kg	1	10/9/2012 1:32:00 AM
2-Methylnaphthalene	ND	0.00379		mg/Kg	1	10/9/2012 1:32:00 AM
Acetone	0.0891	0.00947		mg/Kg	1	10/9/2012 1:32:00 AM
Bromobenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Bromodichloromethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Bromoform	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Bromomethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
2-Butanone	0.0179	0.00947		mg/Kg	1	10/9/2012 1:32:00 AM
Carbon tetrachloride	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Chlorobenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Chloroethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (14-16')

Project: SWMU NO.1

Collection Date: 10/3/2012 5:45:00 PM

Lab ID: 1210332-013

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Chloromethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
2-Chlorotoluene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Carbon disulfide	ND	0.00947		mg/Kg	1	10/9/2012 1:32:00 AM
4-Chlorotoluene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
cis-1,2-DCE	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
cis-1,3-Dichloropropene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,2-Dibromo-3-chloropropane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Dibromochloromethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Dibromomethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,2-Dichlorobenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,3-Dichlorobenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,4-Dichlorobenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Dichlorodifluoromethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,1-Dichloroethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,1-Dichloroethene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,2-Dichloropropane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,3-Dichloropropane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
2,2-Dichloropropane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,1-Dichloropropene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Hexachlorobutadiene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Isopropylbenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
4-Isopropyltoluene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Methylene chloride	ND	0.00284		mg/Kg	1	10/9/2012 1:32:00 AM
n-Butylbenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
2-Hexanone	ND	0.00947		mg/Kg	1	10/9/2012 1:32:00 AM
n-Propylbenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
sec-Butylbenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Styrene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
4-Methyl-2-pentanone	ND	0.00947		mg/Kg	1	10/9/2012 1:32:00 AM
tert-Butylbenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,1,1,2-Tetrachloroethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,1,2,2-Tetrachloroethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Tetrachloroethene (PCE)	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
trans-1,2-DCE	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
trans-1,3-Dichloropropene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,2,3-Trichlorobenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,2,4-Trichlorobenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,1,1-Trichloroethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,1,2-Trichloroethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Trichloroethene (TCE)	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Trichlorofluoromethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (14-16')

Project: SWMU NO.1

Collection Date: 10/3/2012 5:45:00 PM

Lab ID: 1210332-013

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Vinyl chloride	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Surr: 1,2-Dichloroethane-d4	96.1	70-130		%REC	1	10/9/2012 1:32:00 AM
Surr: 4-Bromofluorobenzene	99.3	70-130		%REC	1	10/9/2012 1:32:00 AM
Surr: Dibromofluoromethane	98.0	70-130		%REC	1	10/9/2012 1:32:00 AM
Surr: Toluene-d8	96.4	70-130		%REC	1	10/9/2012 1:32:00 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (16-18')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:00:00 PM

Lab ID: 1210332-014

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/6/2012 11:49:13 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/6/2012 11:49:13 PM
Surr: DNOP	97.4	77.6-140		%REC	1	10/6/2012 11:49:13 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/8/2012 7:26:27 PM
Surr: BFB	81.7	84-116	S	%REC	1	10/8/2012 7:26:27 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 11:42:19 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 11:10:31 AM
Arsenic	ND	12		mg/Kg	5	10/11/2012 11:10:31 AM
Barium	690	5.0		mg/Kg	50	10/11/2012 12:52:45 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 11:10:31 AM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 11:10:31 AM
Chromium	7.9	1.5		mg/Kg	5	10/11/2012 11:10:31 AM
Cobalt	3.7	1.5		mg/Kg	5	10/11/2012 11:10:31 AM
Iron	15000	500		mg/Kg	500	10/11/2012 12:55:08 PM
Lead	7.7	1.2		mg/Kg	5	10/11/2012 11:10:31 AM
Manganese	1400	5.0		mg/Kg	50	10/11/2012 12:52:45 PM
Nickel	5.1	2.5		mg/Kg	5	10/11/2012 11:10:31 AM
Selenium	ND	12		mg/Kg	5	10/11/2012 11:10:31 AM
Silver	ND	1.2		mg/Kg	5	10/11/2012 11:10:31 AM
Vanadium	34	12		mg/Kg	5	10/11/2012 11:10:31 AM
Zinc	ND	12		mg/Kg	5	10/11/2012 11:10:31 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Benzoic acid	ND	0.50		mg/Kg	1	10/10/2012 10:20:31 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (16-18')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:00:00 PM

Lab ID: 1210332-014

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/10/2012 10:20:31 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 10:20:31 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/10/2012 10:20:31 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 10:20:31 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/10/2012 10:20:31 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 10:20:31 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 10:20:31 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 10:20:31 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 10:20:31 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 10:20:31 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 10:20:31 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 10:20:31 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 10:20:31 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Fluorene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Isophorone	ND	0.50		mg/Kg	1	10/10/2012 10:20:31 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
2-Methylphenol	ND	0.50		mg/Kg	1	10/10/2012 10:20:31 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Naphthalene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (16-18')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:00:00 PM

Lab ID: 1210332-014

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 10:20:31 AM
Nitrobenzene	ND	0.50		mg/Kg	1	10/10/2012 10:20:31 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 10:20:31 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 10:20:31 AM
Phenanthrene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Pyridine	ND	0.50		mg/Kg	1	10/10/2012 10:20:31 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Surr: 2,4,6-Tribromophenol	89.7	21.3-145		%REC	1	10/10/2012 10:20:31 AM
Surr: 2-Fluorobiphenyl	83.9	20-131		%REC	1	10/10/2012 10:20:31 AM
Surr: 2-Fluorophenol	98.1	11.9-130		%REC	1	10/10/2012 10:20:31 AM
Surr: 4-Terphenyl-d14	70.5	25.1-149		%REC	1	10/10/2012 10:20:31 AM
Surr: Nitrobenzene-d5	91.1	25.6-137		%REC	1	10/10/2012 10:20:31 AM
Surr: Phenol-d5	95.7	20.3-132		%REC	1	10/10/2012 10:20:31 AM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Toluene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Ethylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Xylenes, Total	ND	0.00208		mg/Kg	1	10/9/2012 2:02:39 AM
Methyl tert-butyl ether (MTBE)	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,2,4-Trimethylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,3,5-Trimethylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,2-Dichloroethane (EDC)	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,2-Dibromoethane (EDB)	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Naphthalene	ND	0.00208		mg/Kg	1	10/9/2012 2:02:39 AM
1-Methylnaphthalene	ND	0.00417		mg/Kg	1	10/9/2012 2:02:39 AM
2-Methylnaphthalene	ND	0.00417		mg/Kg	1	10/9/2012 2:02:39 AM
Acetone	0.0379	0.0104		mg/Kg	1	10/9/2012 2:02:39 AM
Bromobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Bromodichloromethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Bromoform	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Bromomethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
2-Butanone	ND	0.0104		mg/Kg	1	10/9/2012 2:02:39 AM
Carbon tetrachloride	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Chlorobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Chloroethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (16-18')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:00:00 PM

Lab ID: 1210332-014

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Chloromethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
2-Chlorotoluene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Carbon disulfide	ND	0.0104		mg/Kg	1	10/9/2012 2:02:39 AM
4-Chlorotoluene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
cis-1,2-DCE	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
cis-1,3-Dichloropropene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,2-Dibromo-3-chloropropane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Dibromochloromethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Dibromomethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,2-Dichlorobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,3-Dichlorobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,4-Dichlorobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Dichlorodifluoromethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,1-Dichloroethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,1-Dichloroethene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,2-Dichloropropane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,3-Dichloropropane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
2,2-Dichloropropane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,1-Dichloropropene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Hexachlorobutadiene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Isopropylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
4-Isopropyltoluene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Methylene chloride	ND	0.00313		mg/Kg	1	10/9/2012 2:02:39 AM
n-Butylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
2-Hexanone	ND	0.0104		mg/Kg	1	10/9/2012 2:02:39 AM
n-Propylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
sec-Butylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Styrene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
4-Methyl-2-pentanone	ND	0.0104		mg/Kg	1	10/9/2012 2:02:39 AM
tert-Butylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,1,1,2-Tetrachloroethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,1,2,2-Tetrachloroethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Tetrachloroethene (PCE)	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
trans-1,2-DCE	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
trans-1,3-Dichloropropene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,2,3-Trichlorobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,2,4-Trichlorobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,1,1-Trichloroethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,1,2-Trichloroethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Trichloroethene (TCE)	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Trichlorofluoromethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (16-18')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:00:00 PM

Lab ID: 1210332-014

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Vinyl chloride	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Surr: 1,2-Dichloroethane-d4	99.7	70-130		%REC	1	10/9/2012 2:02:39 AM
Surr: 4-Bromofluorobenzene	94.4	70-130		%REC	1	10/9/2012 2:02:39 AM
Surr: Dibromofluoromethane	101	70-130		%REC	1	10/9/2012 2:02:39 AM
Surr: Toluene-d8	102	70-130		%REC	1	10/9/2012 2:02:39 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (24-25')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:10:00 PM

Lab ID: 1210332-015

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/7/2012 12:14:21 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/7/2012 12:14:21 AM
Surr: DNOP	95.8	77.6-140		%REC	1	10/7/2012 12:14:21 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/8/2012 7:56:22 PM
Surr: BFB	88.5	84-116		%REC	1	10/8/2012 7:56:22 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 11:29:40 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 2:22:14 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 11:29:11 AM
Barium	630	5.0		mg/Kg	50	10/11/2012 12:57:46 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 11:29:11 AM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 11:29:11 AM
Chromium	7.7	1.5		mg/Kg	5	10/11/2012 11:29:11 AM
Cobalt	3.5	1.5		mg/Kg	5	10/11/2012 11:29:11 AM
Iron	8700	500		mg/Kg	500	10/11/2012 1:00:09 PM
Lead	3.5	1.2		mg/Kg	5	10/11/2012 11:29:11 AM
Manganese	1200	5.0		mg/Kg	50	10/11/2012 12:57:46 PM
Nickel	4.9	2.5		mg/Kg	5	10/11/2012 11:29:11 AM
Selenium	ND	12		mg/Kg	5	10/11/2012 11:29:11 AM
Silver	ND	1.2		mg/Kg	5	10/11/2012 11:29:11 AM
Vanadium	14	12		mg/Kg	5	10/11/2012 11:29:11 AM
Zinc	ND	12		mg/Kg	5	10/11/2012 11:29:11 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Benzoic acid	ND	0.50		mg/Kg	1	10/10/2012 2:35:58 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (24-25')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:10:00 PM

Lab ID: 1210332-015

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/10/2012 2:35:58 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 2:35:58 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/10/2012 2:35:58 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 2:35:58 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/10/2012 2:35:58 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 2:35:58 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 2:35:58 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 2:35:58 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 2:35:58 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 2:35:58 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 2:35:58 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 2:35:58 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 2:35:58 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Fluorene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Isophorone	ND	0.50		mg/Kg	1	10/10/2012 2:35:58 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
2-Methylphenol	ND	0.50		mg/Kg	1	10/10/2012 2:35:58 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Naphthalene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM

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- P Sample pH greater than 2
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- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (24-25')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:10:00 PM

Lab ID: 1210332-015

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 2:35:58 AM
Nitrobenzene	ND	0.50		mg/Kg	1	10/10/2012 2:35:58 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 2:35:58 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 2:35:58 AM
Phenanthrene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Pyridine	ND	0.50		mg/Kg	1	10/10/2012 2:35:58 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Surr: 2,4,6-Tribromophenol	84.6	21.3-145		%REC	1	10/10/2012 2:35:58 AM
Surr: 2-Fluorobiphenyl	87.7	20-131		%REC	1	10/10/2012 2:35:58 AM
Surr: 2-Fluorophenol	84.5	11.9-130		%REC	1	10/10/2012 2:35:58 AM
Surr: 4-Terphenyl-d14	80.6	25.1-149		%REC	1	10/10/2012 2:35:58 AM
Surr: Nitrobenzene-d5	101	25.6-137		%REC	1	10/10/2012 2:35:58 AM
Surr: Phenol-d5	92.9	20.3-132		%REC	1	10/10/2012 2:35:58 AM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	0.00403	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Toluene	0.00910	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Ethylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Xylenes, Total	ND	0.00207		mg/Kg	1	10/9/2012 2:33:23 AM
Methyl tert-butyl ether (MTBE)	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,2,4-Trimethylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,3,5-Trimethylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,2-Dichloroethane (EDC)	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,2-Dibromoethane (EDB)	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Naphthalene	ND	0.00207		mg/Kg	1	10/9/2012 2:33:23 AM
1-Methylnaphthalene	ND	0.00414		mg/Kg	1	10/9/2012 2:33:23 AM
2-Methylnaphthalene	ND	0.00414		mg/Kg	1	10/9/2012 2:33:23 AM
Acetone	0.0485	0.0104		mg/Kg	1	10/9/2012 2:33:23 AM
Bromobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Bromodichloromethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Bromoform	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Bromomethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
2-Butanone	ND	0.0104		mg/Kg	1	10/9/2012 2:33:23 AM
Carbon tetrachloride	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Chlorobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Chloroethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM

Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (24-25')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:10:00 PM

Lab ID: 1210332-015

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Chloromethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
2-Chlorotoluene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Carbon disulfide	ND	0.0104		mg/Kg	1	10/9/2012 2:33:23 AM
4-Chlorotoluene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
cis-1,2-DCE	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
cis-1,3-Dichloropropene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,2-Dibromo-3-chloropropane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Dibromochloromethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Dibromomethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,2-Dichlorobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,3-Dichlorobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,4-Dichlorobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Dichlorodifluoromethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,1-Dichloroethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,1-Dichloroethene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,2-Dichloropropane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,3-Dichloropropane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
2,2-Dichloropropane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,1-Dichloropropene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Hexachlorobutadiene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Isopropylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
4-Isopropyltoluene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Methylene chloride	ND	0.00311		mg/Kg	1	10/9/2012 2:33:23 AM
n-Butylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
2-Hexanone	ND	0.0104		mg/Kg	1	10/9/2012 2:33:23 AM
n-Propylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
sec-Butylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Styrene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
4-Methyl-2-pentanone	ND	0.0104		mg/Kg	1	10/9/2012 2:33:23 AM
tert-Butylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,1,1,2-Tetrachloroethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,1,2,2-Tetrachloroethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Tetrachloroethene (PCE)	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
trans-1,2-DCE	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
trans-1,3-Dichloropropene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,2,3-Trichlorobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,2,4-Trichlorobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,1,1-Trichloroethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,1,2-Trichloroethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Trichloroethene (TCE)	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Trichlorofluoromethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (24-25')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:10:00 PM

Lab ID: 1210332-015

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Vinyl chloride	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Surr: 1,2-Dichloroethane-d4	118	70-130		%REC	1	10/9/2012 2:33:23 AM
Surr: 4-Bromofluorobenzene	81.0	70-130		%REC	1	10/9/2012 2:33:23 AM
Surr: Dibromofluoromethane	99.8	70-130		%REC	1	10/9/2012 2:33:23 AM
Surr: Toluene-d8	97.9	70-130		%REC	1	10/9/2012 2:33:23 AM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 121009047
Project Name: 1210332

Analytical Results Report

Sample Number	121009047-001	Sampling Date	10/3/2012	Date/Time Received	10/9/2012	12:00 P	
Client Sample ID	1210332-001D / SWMU 1-4 (10-12)DUP			Sampling Time	1:15 PM		
Matrix	Soil	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	11.8	Percent				%moisture	

Sample Number	121009047-002	Sampling Date	10/3/2012	Date/Time Received	10/9/2012	12:00 P	
Client Sample ID	1210332-002D / SWMU 1-4 (17-18)			Sampling Time	1:45 PM		
Matrix	Soil	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	1.59	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	21	Percent				%moisture	

Sample Number	121009047-003	Sampling Date	10/3/2012	Date/Time Received	10/9/2012	12:00 P	
Client Sample ID	1210332-003D / SWMU 1-4 (23-24)			Sampling Time	2:00 PM		
Matrix	Soil	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	16.4	Percent				%moisture	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 121009047
Project Name: 1210332

Analytical Results Report

Sample Number	121009047-004	Sampling Date	10/3/2012	Date/Time Received	10/9/2012 12:00 P
Client Sample ID	1210332-005F / SWMU 1-3 GW			Sampling Time	9:30 AM
Matrix	Water	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	0.0325	mg/L	0.01	10/16/2012	CRW	EPA 335.4	

Sample Number	121009047-005	Sampling Date	10/3/2012	Date/Time Received	10/9/2012 12:00 P
Client Sample ID	1210332-006D / SWMU 1-4 (8-10)			Sampling Time	1:00 PM
Matrix	Soil	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	13.2	Percent				%moisture	

Sample Number	121009047-006	Sampling Date	10/3/2012	Date/Time Received	10/9/2012 12:00 P
Client Sample ID	1210332-007D / SWMU 1-4 (10-12)			Sampling Time	1:15 PM
Matrix	Soil	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/17/2012	CRW	EPA 335.4	
%moisture	10.5	Percent				%moisture	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 121009047
Project Name: 1210332

Analytical Results Report

Sample Number	121009047-007	Sampling Date	10/3/2012	Date/Time Received	10/9/2012	12:00 P	
Client Sample ID	1210332-008D / SWMU 1-5 (26-27)	Sampling Time	6:20 PM				
Matrix	Soil	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/17/2012	CRW	EPA 335.4	
%moisture	19	Percent				%moisture	

Sample Number	121009047-008	Sampling Date	10/3/2012	Date/Time Received	10/9/2012	12:00 P	
Client Sample ID	1210332-009D / SWMU 1-5 (27-28)			Sampling Time	6:30 PM		
Matrix	Soil	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/17/2012	CRW	EPA 335.4	
%moisture	12.5	Percent				%moisture	

Sample Number	121009047-009	Sampling Date	10/3/2012	Date/Time Received	10/9/2012	12:00 P	
Client Sample ID	1210332-010F / EB100312			Sampling Time	6:44 PM		
Matrix	Water	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/L	0.01	10/16/2012	CRW	EPA 335.4	

Anatek Labs, Inc.

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 121009047
Project Name: 1210332

Analytical Results Report

Sample Number	121009047-010	Sampling Date	10/3/2012	Date/Time Received	10/9/2012 12:00 P
Client Sample ID	1210332-012D / SWMU 1-5 (10-12)			Sampling Time	5:30 PM
Matrix	Soil	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/17/2012	CRW	EPA 335.4	
%moisture	8.5	Percent				%moisture	

Sample Number	121009047-011	Sampling Date	10/3/2012	Date/Time Received	10/9/2012 12:00 P
Client Sample ID	1210332-013D / SWMU 1-5 (14-16)			Sampling Time	5:45 PM
Matrix	Soil	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/17/2012	CRW	EPA 335.4	
%moisture	12.6	Percent				%moisture	

Sample Number	121009047-012	Sampling Date	10/3/2012	Date/Time Received	10/9/2012 12:00 P
Client Sample ID	1210332-014D / SWMU 1-5 (16-18)			Sampling Time	6:00 PM
Matrix	Soil	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/17/2012	CRW	EPA 335.4	
%moisture	10.9	Percent				%moisture	

Anatek Labs, Inc.

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

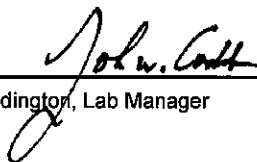
Batch #: 121009047
Project Name: 1210332

Analytical Results Report

Sample Number	121009047-013	Sampling Date	10/3/2012	Date/Time Received	10/9/2012 12:00 P
Client Sample ID	1210332-015D / SWMU 1-5 (24-25)	Sampling Time	6:10 PM		
Matrix	Soil	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/17/2012	CRW	EPA 335.4	
%moisture	16.1	Percent				%moisture	

Authorized Signature


John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 200.7: Metals					
Client ID:	PBW	Batch ID: R6141			RunNo: 6141					
Prep Date:		Analysis Date: 10/10/2012			SeqNo: 176939		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Beryllium	ND	0.0020								
Cadmium	ND	0.0020								
Cobalt	ND	0.0060								
Iron	ND	0.020								
Manganese	ND	0.0020								
Nickel	ND	0.010								
Silver	ND	0.0050								
Vanadium	ND	0.050								

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 200.7: Metals					
Client ID:	LCSW		Batch ID: R6141		RunNo: 6141					
Prep Date:			Analysis Date: 10/10/2012		SeqNo: 176940		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0	98.6	85	115			
Beryllium	0.51	0.0020	0.5000	0	101	85	115			
Cadmium	0.50	0.0020	0.5000	0	100	85	115			
Cobalt	0.48	0.0060	0.5000	0	96.2	85	115			
Iron	0.49	0.020	0.5000	0	98.1	85	115			
Manganese	0.49	0.0020	0.5000	0	97.7	85	115			
Nickel	0.47	0.010	0.5000	0	94.9	85	115			
Silver	0.10	0.0050	0.1000	0	102	85	115			
Vanadium	0.51	0.050	0.5000	0	101	85	115			

Sample ID	1210368-001BMS		SampType: MS		TestCode: EPA Method 200.7: Metals					
Client ID:	BatchQC		Batch ID: R6141		RunNo: 6141					
Prep Date:			Analysis Date: 10/10/2012		SeqNo: 177005		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.51	0.0020	0.5000	0.02430	96.8	70	130			
Beryllium	0.51	0.0020	0.5000	0	102	70	130			
Cadmium	0.49	0.0020	0.5000	0	97.8	70	130			

Sample ID	1210368-001BMSD		SampType: MSD		TestCode: EPA Method 200.7: Metals					
Client ID:	BatchQC		Batch ID: R6141		RunNo: 6141					
Prep Date:			Analysis Date: 10/10/2012		SeqNo: 177006		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.51	0.0020	0.5000	0.02430	97.1	70	130	0.302	20	
Beryllium	0.52	0.0020	0.5000	0	103	70	130	0.724	20	
Cadmium	0.50	0.0020	0.5000	0	99.0	70	130	1.24	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 200.7: Metals					
Client ID:	PBW	Batch ID: R6212			RunNo: 6212					
Prep Date:		Analysis Date: 10/12/2012			SeqNo: 178907		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	ND	0.0060								
Zinc	ND	0.010								

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 200.7: Metals					
Client ID:	LCSW		Batch ID: R6212		RunNo: 6212					
Prep Date:			Analysis Date: 10/12/2012		SeqNo: 178908		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.50	0.0060	0.5000	0	100	85	115			
Zinc	0.51	0.010	0.5000	0	101	85	115			

Sample ID	1210368-001BMS			SampType:	MS		TestCode:	EPA Method 200.7: Metals			
Client ID:	BatchQC			Batch ID:	R6212		RunNo:	6212			
Prep Date:				Analysis Date:	10/12/2012		SeqNo:	178913		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chromium	0.50	0.0060	0.5000	0	101	70	130				

Sample ID	1210368-001BMSD			SampType:	MSD		TestCode:	EPA Method 200.7: Metals			
Client ID:	BatchQC			Batch ID:	R6212		RunNo:	6212			
Prep Date:				Analysis Date:	10/12/2012		SeqNo:	178914		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chromium	0.50	0.0060	0.5000	0	99.2	70	130	1.42	20		

Sample ID	MB-4293	SampType: MBLK			TestCode: EPA Method 200.7: Metals					
Client ID:	PBW	Batch ID: 4293			RunNo: 6265					
Prep Date:	10/15/2012	Analysis Date: 10/16/2012			SeqNo: 180580		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Beryllium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Iron	ND	0.020								
Manganese	ND	0.0020								
Nickel	ND	0.010								
Silver	ND	0.0050								
Vanadium	ND	0.050								
Zinc	ND	0.010								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	LCS-4293		SampType: LCS		TestCode: EPA Method 200.7: Metals						
Client ID:	LCSW		Batch ID: 4293		RunNo: 6265						
Prep Date:	10/15/2012		Analysis Date: 10/16/2012		SeqNo: 180581		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Barium	0.51	0.0020	0.5000	0	102	85	115				
Beryllium	0.53	0.0020	0.5000	0	106	85	115				
Cadmium	0.53	0.0020	0.5000	0	106	85	115				
Chromium	0.51	0.0060	0.5000	0	101	85	115				
Cobalt	0.50	0.0060	0.5000	0	101	85	115				
Iron	0.51	0.020	0.5000	0	102	85	115				
Manganese	0.51	0.0020	0.5000	0	101	85	115				
Nickel	0.49	0.010	0.5000	0	98.2	85	115				
Silver	0.11	0.0050	0.1000	0	107	85	115				
Vanadium	0.52	0.050	0.5000	0	105	85	115				
Zinc	0.50	0.010	0.5000	0	101	85	115				

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4293		SampType: MBLK		TestCode: EPA 200.8: Metals					
Client ID:	PBW		Batch ID: 4293		RunNo: 6249					
Prep Date:	10/15/2012		Analysis Date: 10/15/2012		SeqNo: 179961		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0025								
Arsenic	ND	0.0025								
Lead	ND	0.0025								
Selenium	ND	0.0025								

Sample ID	1210046-001AMS			SampType:	MS		TestCode:	EPA 200.8: Metals			
Client ID:	BatchQC			Batch ID:	R6315		RunNo:	6315			
Prep Date:				Analysis Date:	10/17/2012		SeqNo:	181878		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	0.027	0.0010	0.02500	0.001891	99.5	70	130				

Sample ID	1210367-001BMS			SampType:	MS		TestCode:	EPA 200.8: Metals			
Client ID:	BatchQC			Batch ID:	R6315		RunNo:	6315			
Prep Date:				Analysis Date:	10/17/2012		SeqNo:	181885		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Antimony	0.025	0.0010	0.02500	0	98.6	70	130				
Arsenic	0.035	0.0010	0.02500	0.01018	101	70	130				
Selenium	0.031	0.0010	0.02500	0.005490	104	70	130				

Sample ID	LCS		SampType: LCS		TestCode: EPA 200.8: Metals					
Client ID:	LCSW		Batch ID: R6315		RunNo: 6315					
Prep Date:			Analysis Date: 10/17/2012		SeqNo: 181905		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.025	0.0010	0.02500	0	101	85	115			
Arsenic	0.026	0.0010	0.02500	0	102	85	115			
Lead	0.025	0.0010	0.02500	0	99.9	85	115			
Selenium	0.026	0.0010	0.02500	0	106	85	115			

Sample ID	LCS		SampType: LCS		TestCode: EPA 200.8: Metals					
Client ID:	LCSW		Batch ID: R6315		RunNo: 6315					
Prep Date:			Analysis Date: 10/17/2012		SeqNo: 181906		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.025	0.0010	0.02500	0	101	85	115			
Arsenic	0.026	0.0010	0.02500	0	102	85	115			
Lead	0.025	0.0010	0.02500	0	99.6	85	115			
Selenium	0.027	0.0010	0.02500	0	106	85	115			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	LCS			SampType:	LCS			TestCode:	EPA 200.8: Metals			
Client ID:	LCSW			Batch ID:	R6315			RunNo:	6315			
Prep Date:				Analysis Date:	10/17/2012			SeqNo:	181907		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Antimony	0.024	0.0010	0.02500	0	96.7	85	115					
Arsenic	0.025	0.0010	0.02500	0	101	85	115					
Lead	0.025	0.0010	0.02500	0	100	85	115					
Selenium	0.026	0.0010	0.02500	0	106	85	115					

Sample ID	MB	SampType: MBLK			TestCode: EPA 200.8: Metals					
Client ID:	PBW	Batch ID: R6315			RunNo: 6315					
Prep Date:		Analysis Date: 10/17/2012			SeqNo: 181909		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID	MB	SampType: MBLK			TestCode: EPA 200.8: Metals					
Client ID:	PBW	Batch ID: R6315			RunNo: 6315					
Prep Date:		Analysis Date: 10/17/2012			SeqNo: 181910		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID	MB	SampType: MBLK			TestCode: EPA 200.8: Metals					
Client ID:	PBW	Batch ID: R6315			RunNo: 6315					
Prep Date:		Analysis Date: 10/17/2012			SeqNo: 181911		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID	1210585-001CMS		SampType: MS		TestCode: EPA 200.8: Metals					
Client ID:	BatchQC		Batch ID: R6315		RunNo: 6315					
Prep Date:			Analysis Date: 10/17/2012		SeqNo: 181948		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.026	0.0010	0.02500	0	103	70	130			
Arsenic	0.026	0.0010	0.02500	0	102	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup**Project:** SWMU NO.1

Sample ID	1210585-001CMS			SampType:	MS			TestCode:	EPA 200.8: Metals		
Client ID:	BatchQC			Batch ID:	R6315			RunNo:	6315		
Prep Date:				Analysis Date:	10/17/2012			SeqNo:	181948		Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Lead	0.025	0.0010	0.02500	0	99.7	70	130				
Selenium	0.026	0.0010	0.02500	0	105	70	130				

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4279		SampType: MBLK		TestCode: EPA Method 245.1: Mercury					
Client ID:	PBW		Batch ID: 4279		RunNo: 6215					
Prep Date:	10/12/2012		Analysis Date: 10/12/2012		SeqNo: 179065		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercurv	ND	0.00020								

Sample ID	LCS-4279		SampType: LCS		TestCode: EPA Method 245.1: Mercury					
Client ID:	LCSW		Batch ID: 4279		RunNo: 6215					
Prep Date:	10/12/2012		Analysis Date: 10/12/2012		SeqNo: 179066		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	97.0	80	120			

Sample ID	1210332-010EMS		SampType: MS		TestCode: EPA Method 245.1: Mercury					
Client ID:	EB100312		Batch ID: 4279		RunNo: 6215					
Prep Date:	10/12/2012		Analysis Date: 10/12/2012		SeqNo: 179069		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0048	0.00020	0.005000	0	96.9	75	125			

Sample ID	1210332-010EMSD			SampType:	MSD		TestCode:	EPA Method 245.1: Mercury			
Client ID:	EB100312			Batch ID:	4279		RunNo:	6215			
Prep Date:	10/12/2012			Analysis Date:	10/12/2012		SeqNo:	179072		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Mercury	0.0049	0.00020	0.005000	0	97.7	75	125	0.749	20		

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB		SampType: MBLK		TestCode: EPA Method 300.0: Anions					
Client ID:	PBW		Batch ID: R6038		RunNo: 6038					
Prep Date:			Analysis Date: 10/5/2012		SeqNo: 173988		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSW		Batch ID: R6038		RunNo: 6038					
Prep Date:			Analysis Date: 10/5/2012		SeqNo: 173989		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.49	0.10	0.5000	0	98.7	90	110			
Chloride	4.6	0.50	5.000	0	91.4	90	110			
Sulfate	9.0	0.50	10.00	0	90.2	90	110			

Sample ID	1210309-005AMS		SampType: MS		TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC		Batch ID: R6038		RunNo: 6038					
Prep Date:			Analysis Date: 10/5/2012		SeqNo: 174013		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	2.2	0.10	0.5000	1.745	84.0	76.6	110			

Sample ID	1210309-005AMSD		SampType: MSD		TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC		Batch ID: R6038		RunNo: 6038					
Prep Date:			Analysis Date: 10/5/2012		SeqNo: 174014		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	2.2	0.10	0.5000	1.745	87.2	76.6	110	0.741	20	

Sample ID	1210320-001AMS		SampType: MS		TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC		Batch ID: R6038		RunNo: 6038					
Prep Date:			Analysis Date: 10/5/2012		SeqNo: 174024		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.4	0.10	0.5000	0.9401	92.6	76.6	110			

Sample ID	1210320-001AMSD		SampType: MSD		TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC		Batch ID: R6038		RunNo: 6038					
Prep Date:			Analysis Date: 10/5/2012		SeqNo: 174025		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.4	0.10	0.5000	0.9401	93.5	76.6	110	0.313	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID: R6038			RunNo: 6038					
Prep Date:		Analysis Date: 10/5/2012			SeqNo: 174043			Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSW		Batch ID: R6038		RunNo: 6038					
Prep Date:			Analysis Date: 10/5/2012		SeqNo: 174044		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51	0.10	0.5000	0	102	90	110			
Chloride	4.8	0.50	5.000	0	96.7	90	110			
Sulfate	9.8	0.50	10.00	0	97.7	90	110			

Sample ID	1210361-003AMS	SampType: MS			TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID: R6038			RunNo: 6038					
Prep Date:		Analysis Date: 10/6/2012			SeqNo: 174065		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.92	0.10	0.5000	0.4398	96.0	76.6	110			
Chloride	10	0.50	5.000	4.860	105	87.8	111			
Sulfate	10	0.50	10.00	0.6275	94.7	84.6	122			

Sample ID	1210361-003AMSD		SampType: MSD		TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC		Batch ID: R6038		RunNo: 6038					
Prep Date:			Analysis Date: 10/6/2012		SeqNo: 174066		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.91	0.10	0.5000	0.4398	94.5	76.6	110	0.797	20	
Chloride	10	0.50	5.000	4.860	106	87.8	111	0.396	20	
Sulfate	10	0.50	10.00	0.6275	95.7	84.6	122	0.930	20	

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID: R6177			RunNo: 6177					
Prep Date:		Analysis Date: 10/11/2012			SeqNo: 178038		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSW		Batch ID: R6177		RunNo: 6177					
Prep Date:			Analysis Date: 10/11/2012		SeqNo: 178039		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	97.2	90	110			

Sample ID	1210607-001AMS			SampType: MS		TestCode: EPA Method 300.0: Anions				
Client ID:	BatchQC			Batch ID: R6177		RunNo: 6177				
Prep Date:				Analysis Date: 10/11/2012		SeqNo: 178041		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.5	0.50	5.000	4.628	97.8	87.8	111			

Sample ID	1210607-001AMSD		SampType: MSD			TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC		Batch ID: R6177			RunNo: 6177					
Prep Date:			Analysis Date: 10/11/2012			SeqNo: 178042		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	9.6	0.50	5.000	4.628	98.5	87.8	111	0.323	20		

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4148	SampType: MBLK			TestCode: EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID: 4148			RunNo: 6027					
Prep Date:	10/5/2012	Analysis Date: 10/6/2012			SeqNo: 173597		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	77.6	140			

Sample ID	LCS-4148		SampType: LCS		TestCode: EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 4148		RunNo: 6027					
Prep Date:	10/5/2012		Analysis Date: 10/6/2012		SeqNo: 173599		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	35	10	50.00	0	70.2	52.6	130			
Surr: DNOP	4.4		5.000		87.4	77.6	140			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4137		SampType: MBLK		TestCode: EPA Method 8015B: Diesel Range					
Client ID:	PBW		Batch ID: 4137		RunNo: 6039					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 174081		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.1		1.000		108	79.5	166			

Sample ID	LCS-4137		SampType: LCS		TestCode: EPA Method 8015B: Diesel Range					
Client ID:	LCSW		Batch ID: 4137		RunNo: 6039					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 174082		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.2	1.0	5.000	0	104	74	157			
Surr: DNOP	0.45		0.5000		90.2	79.5	166			

Sample ID	LCSD-4137		SampType: LCSD		TestCode: EPA Method 8015B: Diesel Range					
Client ID:	LCSS02		Batch ID: 4137		RunNo: 6039					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 174083		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.5	1.0	5.000	0	109	74	157	5.45	23	
Surr: DNOP	0.45		0.5000		90.8	79.5	166	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	5ML RB		SampType: MBLK		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	PBS		Batch ID: R6020		RunNo: 6020					
Prep Date:			Analysis Date: 10/5/2012		SeqNo: 173460		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	84	116			

Sample ID	2.5UG GRO LCS		SampType: LCS		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	LCSS		Batch ID: R6020		RunNo: 6020					
Prep Date:			Analysis Date: 10/5/2012		SeqNo: 173461		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.0	74	117			
Surr: BFB	820		1000		82.5	84	116			S

Sample ID	1210279-011BMS		SampType: MS		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC		Batch ID: R6020		RunNo: 6020					
Prep Date:			Analysis Date: 10/6/2012		SeqNo: 173465		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	12	5.0	15.46	0	78.9	70	130			
Surr: BFB	670		618.5		108	84	116			

Sample ID	1210279-011BMSD		SampType: MSD		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC		Batch ID: R6020		RunNo: 6020					
Prep Date:			Analysis Date: 10/6/2012		SeqNo: 173466		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	14	5.0	15.46	0	90.8	70	130	14.0	22.1	
Surr: BFB	650		618.5		105	84	116	0	0	

Sample ID	5ML RB		SampType: MBLK		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	PBS		Batch ID: R6043		RunNo: 6043					
Prep Date:			Analysis Date: 10/6/2012		SeqNo: 174099		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		105	84	116			

Sample ID	2.5UG GRO LCS		SampType: LCS		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	LCSS		Batch ID: R6043		RunNo: 6043					
Prep Date:			Analysis Date: 10/6/2012		SeqNo: 174100		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.6	74	117			
Surr: BFB	870		1000		87.0	84	116			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210332-013BMS		SampType: MS		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	SWMU 1-5 (14-16')		Batch ID: R6043		RunNo: 6043					
Prep Date:			Analysis Date: 10/6/2012		SeqNo: 174108		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	5.0	17.66	0	84.7	70	130			
Surr: BFB	610		706.4		85.8	84	116			

Sample ID	1210332-013BMSD		SampType: MSD		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	SWMU 1-5 (14-16')		Batch ID: R6043		RunNo: 6043					
Prep Date:			Analysis Date: 10/6/2012		SeqNo: 174109		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	5.0	17.66	0	87.1	70	130	2.79	22.1	
Surr: BFB	670		706.4		95.3	84	116	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	5ML RB		SampType: MBLK		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	PBW		Batch ID: R6020		RunNo: 6020					
Prep Date:			Analysis Date: 10/5/2012		SeqNo: 173451		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	21		20.00		104	69.8	119			

Sample ID	5ML RB		SampType: MBLK		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	PBW		Batch ID: R6043		RunNo: 6043					
Prep Date:			Analysis Date: 10/6/2012		SeqNo: 174095		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	21		20.00		105	69.8	119			

Sample ID	2.5UG GRO LCS		SampType: LCS		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	LCSW		Batch ID: R6043		RunNo: 6043					
Prep Date:			Analysis Date: 10/6/2012		SeqNo: 174096		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.47	0.050	0.5000	0	93.6	75.9	119			
Surr: BFB	17		20.00		87.0	69.8	119			

Sample ID	5ML RB		SampType: MBLK		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	PBW		Batch ID: R6074		RunNo: 6074					
Prep Date:			Analysis Date: 10/8/2012		SeqNo: 175153		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	20		20.00		99.3	69.8	119			

Sample ID	2.5UG GRO LCSB		SampType: LCS		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	LCSW		Batch ID: R6074		RunNo: 6074					
Prep Date:			Analysis Date: 10/8/2012		SeqNo: 175154		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.47	0.050	0.5000	0	93.3	75.9	119			
Surr: BFB	16		20.00		81.2	69.8	119			

Sample ID	1210333-001AMS		SampType: MS		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC		Batch ID: R6074		RunNo: 6074					
Prep Date:			Analysis Date: 10/9/2012		SeqNo: 175202		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.46	0.050	0.5000	0	92.2	63.5	131			
Surr: BFB	23		20.00		117	69.8	119			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210333-001AMSD			SampType:	MSD		TestCode:	EPA Method 8015B: Gasoline Range			
Client ID:	BatchQC		Batch ID:		R6074		RunNo:	6074			
Prep Date:	Analysis Date:			10/9/2012		SeqNo:	175203		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	0.47	0.050	0.5000	0	95.0	63.5	131	2.99	16.7		
Surr: BFB	24		20.00		122	69.8	119	0	0	S	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4139		SampType:	MBLK		TestCode:	Method 8260B/5035LOW: VOLATILES			
Client ID:	PBS		Batch ID:	4139		RunNo:	6123			
Prep Date:	10/5/2012		Analysis Date:	10/8/2012		SeqNo:	176473		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00100								
Toluene	ND	0.00100								
Ethylbenzene	ND	0.00100								
Xylenes, Total	ND	0.00200								
Methyl tert-butyl ether (MTBE)	ND	0.00100								
1,2,4-Trimethylbenzene	ND	0.00100								
1,3,5-Trimethylbenzene	ND	0.00100								
1,2-Dichloroethane (EDC)	ND	0.00100								
1,2-Dibromoethane (EDB)	ND	0.00100								
Naphthalene	ND	0.00200								
1-Methylnaphthalene	ND	0.00400								
2-Methylnaphthalene	ND	0.00400								
Acetone	ND	0.0100								
Bromobenzene	ND	0.00100								
Bromodichloromethane	ND	0.00100								
Bromoform	ND	0.00100								
Bromomethane	ND	0.00100								
2-Butanone	ND	0.0100								
Carbon tetrachloride	ND	0.00100								
Chlorobenzene	ND	0.00100								
Chloroethane	ND	0.00100								
Chloroform	ND	0.00100								
Chloromethane	ND	0.00100								
2-Chlorotoluene	ND	0.00100								
Carbon disulfide	ND	0.0100								
4-Chlorotoluene	ND	0.00100								
cis-1,2-DCE	ND	0.00100								
cis-1,3-Dichloropropene	ND	0.00100								
1,2-Dibromo-3-chloropropane	ND	0.00100								
Dibromochloromethane	ND	0.00100								
Dibromomethane	ND	0.00100								
1,2-Dichlorobenzene	ND	0.00100								
1,3-Dichlorobenzene	ND	0.00100								
1,4-Dichlorobenzene	ND	0.00100								
Dichlorodifluoromethane	ND	0.00100								
1,1-Dichloroethane	ND	0.00100								
1,1-Dichloroethene	ND	0.00100								
1,2-Dichloropropane	ND	0.00100								
1,3-Dichloropropane	ND	0.00100								
2,2-Dichloropropane	ND	0.00100								
1,1-Dichloropropene	ND	0.00100								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4139		SampType:	MBLK		TestCode:	Method 8260B/5035LOW: VOLATILES			
Client ID:	PBS		Batch ID:	4139		RunNo:	6123			
Prep Date:	10/5/2012		Analysis Date:	10/8/2012		SeqNo:	176473		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.00100								
Isopropylbenzene	ND	0.00100								
4-Isopropyltoluene	ND	0.00100								
Methylene chloride	ND	0.00300								
n-Butylbenzene	ND	0.00100								
2-Hexanone	ND	0.0100								
n-Propylbenzene	ND	0.00100								
sec-Butylbenzene	ND	0.00100								
Styrene	ND	0.00100								
4-Methyl-2-pentanone	ND	0.0100								
tert-Butylbenzene	ND	0.00100								
1,1,1,2-Tetrachloroethane	ND	0.00100								
1,1,2,2-Tetrachloroethane	ND	0.00100								
Tetrachloroethene (PCE)	ND	0.00100								
trans-1,2-DCE	ND	0.00100								
trans-1,3-Dichloropropene	ND	0.00100								
1,2,3-Trichlorobenzene	ND	0.00100								
1,2,4-Trichlorobenzene	ND	0.00100								
1,1,1-Trichloroethane	ND	0.00100								
1,1,2-Trichloroethane	ND	0.00100								
Trichloroethene (TCE)	ND	0.00100								
Trichlorofluoromethane	ND	0.00100								
1,2,3-Trichloropropane	ND	0.00100								
Vinyl chloride	ND	0.00100								
Surr: 1,2-Dichloroethane-d4	43.5		50.00		86.9	70	130			
Surr: 4-Bromofluorobenzene	48.2		50.00		96.4	70	130			
Surr: Dibromofluoromethane	51.1		50.00		102	70	130			
Surr: Toluene-d8	48.6		50.00		97.1	70	130			

Sample ID	lcs-4139		SampType:	LCS		TestCode:	Method 8260B/5035LOW: VOLATILES			
Client ID:	LCSS		Batch ID:	4139		RunNo:	6123			
Prep Date:	10/5/2012		Analysis Date:	10/8/2012		SeqNo:	176475		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	10.6	1.00	10.00	0	106	60	140			
Toluene	9.55	1.00	10.00	0	95.5	60	140			
Chlorobenzene	9.91	1.00	10.00	0	99.1	60	140			
1,1-Dichloroethene	11.6	1.00	10.00	0	116	60	140			
Trichloroethene (TCE)	9.40	1.00	10.00	0	94.0	60	140			
Surr: 1,2-Dichloroethane-d4	45.7		50.00		91.3	70	130			
Surr: 4-Bromofluorobenzene	39.6		50.00		79.3	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	lcs-4139		SampType: LCS		TestCode: Method 8260B/5035LOW: VOLATILES					
Client ID:	LCSS		Batch ID: 4139		RunNo: 6123					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 176475		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	49.3		50.00		98.5	70	130			
Surr: Toluene-d8	47.1		50.00		94.2	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	5ml-rb	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID:	R6048	RunNo:	6048					
Prep Date:		Analysis Date:	10/5/2012	SeqNo:	174216	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	5ml-rb	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID:	R6048	RunNo:	6048					
Prep Date:		Analysis Date:	10/5/2012	SeqNo:	174216	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.7		10.00		87.4	70	130			
Surr: 4-Bromofluorobenzene	8.1		10.00		80.6	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	7.9		10.00		79.4	70	130			

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID:	R6048	RunNo:	6048					
Prep Date:		Analysis Date:	10/5/2012	SeqNo:	174218	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	95.4	70	130			
Toluene	18	1.0	20.00	0	90.7	80	120			
Chlorobenzene	17	1.0	20.00	0	85.9	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	97.8	73.7	122			
Trichloroethene (TCE)	17	1.0	20.00	0	84.3	70	130			
Surr: 1,2-Dichloroethane-d4	8.3		10.00		82.6	70	130			
Surr: 4-Bromofluorobenzene	7.8		10.00		78.4	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	100ng lcs		SampType: LCS		TestCode: EPA Method 8260B: VOLATILES					
Client ID:	LCSW		Batch ID: R6048		RunNo: 6048					
Prep Date:			Analysis Date: 10/5/2012		SeqNo: 174218		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	9.9		10.00		99.0	70	130			
Surr: Toluene-d8	7.8		10.00		78.4	70	130			

Sample ID	1210179-001a ms		SampType: MS		TestCode: EPA Method 8260B: VOLATILES					
Client ID:	BatchQC		Batch ID: R6048		RunNo: 6048					
Prep Date:			Analysis Date: 10/5/2012		SeqNo: 174222		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	100	66.8	128			
Toluene	20	1.0	20.00	0	99.4	70	130			
Chlorobenzene	18	1.0	20.00	0	90.5	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	103	70	130			
Trichloroethene (TCE)	17	1.0	20.00	0	85.5	70	130			
Surr: 1,2-Dichloroethane-d4	8.6		10.00		85.7	70	130			
Surr: 4-Bromofluorobenzene	8.5		10.00		84.9	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	8.1		10.00		81.2	70	130			

Sample ID	1210179-001a msd		SampType: MSD		TestCode: EPA Method 8260B: VOLATILES					
Client ID:	BatchQC		Batch ID: R6048		RunNo: 6048					
Prep Date:			Analysis Date: 10/5/2012		SeqNo: 174223		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.8	66.8	128	3.35	16.7	
Toluene	19	1.0	20.00	0	96.1	70	130	3.34	18.7	
Chlorobenzene	18	1.0	20.00	0	90.9	70	130	0.385	19.5	
1,1-Dichloroethene	20	1.0	20.00	0	97.6	70	130	5.89	16.7	
Trichloroethene (TCE)	16	1.0	20.00	0	79.2	70	130	7.68	17.5	
Surr: 1,2-Dichloroethane-d4	8.3		10.00		83.3	70	130	0	0	
Surr: 4-Bromofluorobenzene	8.3		10.00		83.4	70	130	0	0	
Surr: Dibromofluoromethane	9.8		10.00		97.9	70	130	0	0	
Surr: Toluene-d8	8.1		10.00		81.2	70	130	0	0	

Sample ID	b3	SampType:	MBLK		TestCode:	EPA Method 8260B: VOLATILES				
Client ID:	PBW	Batch ID:	R6048		RunNo:	6048				
Prep Date:		Analysis Date:	10/5/2012		SeqNo:	174241	Units:	µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	b3	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID:	R6048	RunNo:	6048					
Prep Date:		Analysis Date:	10/5/2012	SeqNo:	174241	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID b3	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch ID: R6048			RunNo: 6048						
Prep Date:	Analysis Date: 10/5/2012			SeqNo: 174241		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.2		10.00		82.4	70	130			
Surr: 4-Bromofluorobenzene	8.3		10.00		82.8	70	130			
Surr: Dibromofluoromethane	9.7		10.00		97.0	70	130			
Surr: Toluene-d8	8.1		10.00		81.1	70	130			

Sample ID 100ng lcs2	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES						
Client ID: LCSW	Batch ID: R6048			RunNo: 6048						
Prep Date:	Analysis Date: 10/5/2012			SeqNo: 174243		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	19	1.0	20.00	0	93.1	80	120			
Chlorobenzene	17	1.0	20.00	0	87.4	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	104	73.7	122			
Trichloroethene (TCE)	17	1.0	20.00	0	84.8	70	130			
Surr: 1,2-Dichloroethane-d4	8.5		10.00		84.6	70	130			
Surr: 4-Bromofluorobenzene	8.3		10.00		83.3	70	130			
Surr: Dibromofluoromethane	10		10.00		100	70	130			
Surr: Toluene-d8	7.9		10.00		78.6	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210340-003a ms		SampType: MS		TestCode: EPA Method 8260B: VOLATILES					
Client ID:	BatchQC		Batch ID: R6048		RunNo: 6048					
Prep Date:			Analysis Date: 10/6/2012		SeqNo: 174249		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlorobenzene	380	20	400.0	0	95.3	70	130			
1,1-Dichloroethene	410	20	400.0	0	103	70	130			
Trichloroethene (TCE)	350	20	400.0	0	88.7	70	130			
Surr: 1,2-Dichloroethane-d4	170		200.0		83.2	70	130			
Surr: 4-Bromofluorobenzene	160		200.0		77.8	70	130			
Surr: Dibromofluoromethane	200		200.0		101	70	130			
Surr: Toluene-d8	160		200.0		79.7	70	130			

Sample ID	1210340-003a msd		SampType: MSD		TestCode: EPA Method 8260B: VOLATILES					
Client ID:	BatchQC		Batch ID: R6048		RunNo: 6048					
Prep Date:			Analysis Date: 10/6/2012		SeqNo: 174250		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlorobenzene	360	20	400.0	0	90.7	70	130	5.00	19.5	
1,1-Dichloroethene	380	20	400.0	0	95.9	70	130	7.00	16.7	
Trichloroethene (TCE)	330	20	400.0	0	82.9	70	130	6.82	17.5	
Surr: 1,2-Dichloroethane-d4	170		200.0		84.4	70	130	0	0	
Surr: 4-Bromofluorobenzene	160		200.0		79.7	70	130	0	0	
Surr: Dibromofluoromethane	200		200.0		99.6	70	130	0	0	
Surr: Toluene-d8	160		200.0		80.6	70	130	0	0	

Sample ID	5ml rb		SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW		Batch ID: R6255		RunNo: 6255					
Prep Date:			Analysis Date: 10/15/2012		SeqNo: 180303		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	5ml rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID: R6255			RunNo: 6255					
Prep Date:		Analysis Date: 10/15/2012			SeqNo: 180303	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	5ml rb	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID:	R6255	RunNo:	6255					
Prep Date:		Analysis Date:	10/15/2012	SeqNo:	180303	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.2		10.00		92.5	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.2		10.00		92.1	70	130			
Surr: Toluene-d8	9.9		10.00		99.3	70	130			

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID:	R6255	RunNo:	6255					
Prep Date:		Analysis Date:	10/15/2012	SeqNo:	180305	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130			
Toluene	21	1.0	20.00	0	105	80	120			
Chlorobenzene	21	1.0	20.00	0	107	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	92.3	73.7	122			
Trichloroethene (TCE)	19	1.0	20.00	0	92.6	70	130			
Surr: 1,2-Dichloroethane-d4	9.3		10.00		93.2	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.7	70	130			
Surr: Dibromofluoromethane	9.0		10.00		90.3	70	130			
Surr: Toluene-d8	9.4		10.00		93.9	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4140		SampType: MBLK		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	PBS		Batch ID: 4140		RunNo: 6106					
Prep Date:	10/5/2012		Analysis Date: 10/9/2012		SeqNo: 176018		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Azobenzene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Benzoic acid	ND	0.50								
Benzyl alcohol	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	ND	0.50								
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	ND	0.50								
Di-n-octyl phthalate	ND	0.25								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3'-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.40								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4140		SampType: MBLK		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	PBS		Batch ID: 4140		RunNo: 6106					
Prep Date:	10/5/2012		Analysis Date: 10/9/2012		SeqNo: 176018		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoranthene	ND	0.20								
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
1-Methylnaphthalene	ND	0.20								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2,4,6-Tribromophenol	2.3		3.330		68.7	21.3	145			
Surr: 2-Fluorobiphenyl	0.94		1.670		56.2	20	131			
Surr: 2-Fluorophenol	2.0		3.330		59.6	11.9	130			
Surr: 4-Terphenyl-d14	0.96		1.670		57.5	25.1	149			
Surr: Nitrobenzene-d5	1.0		1.670		59.9	25.6	137			
Surr: Phenol-d5	2.1		3.330		62.9	20.3	132			

Sample ID	lcs-4140		SampType: LCS		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	LCSS		Batch ID: 4140		RunNo: 6106					
Prep Date:	10/5/2012		Analysis Date: 10/9/2012		SeqNo: 176019		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	Ics-4140		SampType: LCS		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	LCSS		Batch ID: 4140		RunNo: 6106					
Prep Date:	10/5/2012		Analysis Date: 10/9/2012		SeqNo: 176019		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.99	0.20	1.670	0	59.5	49.7	98.1			
4-Chloro-3-methylphenol	2.2	0.50	3.330	0	65.1	43.8	89.1			
2-Chlorophenol	1.9	0.20	3.330	0	57.0	41.1	96.9			
1,4-Dichlorobenzene	0.91	0.20	1.670	0	54.6	41	97.4			
2,4-Dinitrotoluene	1.2	0.50	1.670	0	70.7	44.4	104			
N-Nitrosodi-n-propylamine	1.1	0.20	1.670	0	65.0	39.1	86.9			
4-Nitrophenol	2.1	0.25	3.330	0	62.6	44.2	107			
Pentachlorophenol	1.5	0.40	3.330	0	44.9	36.2	80			
Phenol	2.0	0.20	3.330	0	60.0	42.7	92.7			
Pyrene	0.90	0.20	1.670	0	53.9	34.7	98.8			
1,2,4-Trichlorobenzene	0.88	0.20	1.670	0	52.9	37.8	98.3			
Surr: 2,4,6-Tribromophenol	2.5		3.330		74.6	21.3	145			
Surr: 2-Fluorobiphenyl	1.1		1.670		66.2	20	131			
Surr: 2-Fluorophenol	1.9		3.330		55.8	11.9	130			
Surr: 4-Terphenyl-d14	1.1		1.670		64.8	25.1	149			
Surr: Nitrobenzene-d5	1.0		1.670		60.3	25.6	137			
Surr: Phenol-d5	2.1		3.330		63.6	20.3	132			

Sample ID	1210279-012CMS		SampType: MS		TestCode: EPA Method 8270C: Semivolatiles						
Client ID:	BatchQC		Batch ID: 4140		RunNo: 6106						
Prep Date:	10/5/2012		Analysis Date: 10/9/2012		SeqNo: 176040		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Acenaphthene	1.3	0.20	1.684	0	76.6	38.6	100				
4-Chloro-3-methylphenol	2.7	0.50	3.358	0	79.2	35.8	108				
2-Chlorophenol	2.4	0.20	3.358	0	72.3	48.2	96.1				
1,4-Dichlorobenzene	1.1	0.20	1.684	0	66.4	42.5	97.6				
2,4-Dinitrotoluene	1.6	0.50	1.684	0	92.4	51.2	108				
N-Nitrosodi-n-propylamine	1.1	0.20	1.684	0	67.5	31.6	114				
4-Nitrophenol	2.8	0.25	3.358	0	82.3	22.7	144				
Pentachlorophenol	2.1	0.40	3.358	0	61.1	24	109				
Phenol	2.6	0.20	3.358	0	76.4	33.1	108				
Pyrene	1.2	0.20	1.684	0	69.2	42.7	98.9				
1,2,4-Trichlorobenzene	1.1	0.20	1.684	0	64.3	27.1	118				
Surr: 2,4,6-Tribromophenol	2.9		3.358		86.1	21.3	145				
Surr: 2-Fluorobiphenyl	1.2		1.684		73.8	20	131				
Surr: 2-Fluorophenol	2.5		3.358		75.3	11.9	130				
Surr: 4-Terphenyl-d14	1.2		1.684		70.1	25.1	149				
Surr: Nitrobenzene-d5	1.2		1.684		73.1	25.6	137				
Surr: Phenol-d5	2.7		3.358		79.5	20.3	132				

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210279-012CMSD	SampType:	MSD								TestCode:	EPA Method 8270C: Semivolatiles			
Client ID:	BatchQC	Batch ID:	4140				RunNo:	6106							
Prep Date:	10/5/2012	Analysis Date:	10/9/2012				SeqNo:	176041		Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Acenaphthene	1.2	0.20	1.667	0	74.1	38.6	100	4.39	20						
4-Chloro-3-methylphenol	2.7	0.50	3.324	0	82.1	35.8	108	2.56	20						
2-Chlorophenol	2.3	0.20	3.324	0	68.8	48.2	96.1	5.93	20						
1,4-Dichlorobenzene	1.0	0.20	1.667	0	62.1	42.5	97.6	7.84	20						
2,4-Dinitrotoluene	1.6	0.50	1.667	0	95.5	51.2	108	2.29	20						
N-Nitrosodi-n-propylamine	1.1	0.20	1.667	0	66.7	31.6	114	2.25	20						
4-Nitrophenol	2.9	0.25	3.324	0	88.4	22.7	144	6.14	20						
Pentachlorophenol	2.1	0.40	3.324	0	64.0	24	109	3.56	20						
Phenol	2.3	0.20	3.324	0	69.6	33.1	108	10.3	20						
Pyrene	1.2	0.20	1.667	0	71.4	42.7	98.9	2.04	20						
1,2,4-Trichlorobenzene	1.1	0.20	1.667	0	66.7	27.1	118	2.65	20						
Surr: 2,4,6-Tribromophenol	3.0		3.324		89.8	21.3	145	0	0						
Surr: 2-Fluorobiphenyl	1.2		1.667		71.8	20	131	0	0						
Surr: 2-Fluorophenol	2.4		3.324		72.3	11.9	130	0	0						
Surr: 4-Terphenyl-d14	1.2		1.667		72.5	25.1	149	0	0						
Surr: Nitrobenzene-d5	1.3		1.667		76.8	25.6	137	0	0						
Surr: Phenol-d5	2.6		3.324		77.9	20.3	132	0	0						

Sample ID	mb-4168		SampType: MBLK		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	PBS		Batch ID: 4168		RunNo: 6106					
Prep Date:	10/8/2012		Analysis Date: 10/10/2012		SeqNo: 176042		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Azobenzene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Benzoic acid	ND	0.50								
Benzyl alcohol	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	ND	0.50								
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4168		SampType: MBLK		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	PBS		Batch ID: 4168		RunNo: 6106					
Prep Date:	10/8/2012		Analysis Date: 10/10/2012		SeqNo: 176042		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	ND	0.50								
Di-n-octyl phthalate	ND	0.25								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3'-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.40								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								
Fluoranthene	ND	0.20								
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
1-Methylnaphthalene	ND	0.20								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4168		SampType: MBLK		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	PBS		Batch ID: 4168		RunNo: 6106					
Prep Date:	10/8/2012		Analysis Date: 10/10/2012		SeqNo: 176042		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2,4,6-Tribromophenol	2.8		3.330		84.5	21.3	145			
Surr: 2-Fluorobiphenyl	1.5		1.670		88.5	20	131			
Surr: 2-Fluorophenol	2.9		3.330		85.8	11.9	130			
Surr: 4-Terphenyl-d14	1.3		1.670		77.1	25.1	149			
Surr: Nitrobenzene-d5	1.5		1.670		90.5	25.6	137			
Surr: Phenol-d5	3.1		3.330		94.0	20.3	132			

Sample ID	lcs-4168		SampType: LCS		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	LCSS		Batch ID: 4168		RunNo: 6106					
Prep Date:	10/8/2012		Analysis Date: 10/10/2012		SeqNo: 176043		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.3	0.20	1.670	0	77.2	49.7	98.1			
4-Chloro-3-methylphenol	2.9	0.50	3.330	0	87.8	43.8	89.1			
2-Chlorophenol	2.8	0.20	3.330	0	83.6	41.1	96.9			
1,4-Dichlorobenzene	1.3	0.20	1.670	0	75.1	41	97.4			
2,4-Dinitrotoluene	1.7	0.50	1.670	0	99.6	44.4	104			
N-Nitrosodi-n-propylamine	1.5	0.20	1.670	0	88.3	39.1	86.9			S
4-Nitrophenol	3.0	0.25	3.330	0	88.8	44.2	107			
Pentachlorophenol	2.1	0.40	3.330	0	64.1	36.2	80			
Phenol	2.7	0.20	3.330	0	80.3	42.7	92.7			
Pyrene	1.2	0.20	1.670	0	74.5	34.7	98.8			
1,2,4-Trichlorobenzene	1.3	0.20	1.670	0	77.2	37.8	98.3			
Surr: 2,4,6-Tribromophenol	2.9		3.330		87.4	21.3	145			
Surr: 2-Fluorobiphenyl	1.4		1.670		85.7	20	131			
Surr: 2-Fluorophenol	2.6		3.330		77.1	11.9	130			
Surr: 4-Terphenyl-d14	1.3		1.670		74.9	25.1	149			
Surr: Nitrobenzene-d5	1.4		1.670		82.0	25.6	137			
Surr: Phenol-d5	2.8		3.330		83.8	20.3	132			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210372-001BMS		SampType: MS		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	BatchQC		Batch ID: 4168		RunNo: 6106					
Prep Date:	10/8/2012		Analysis Date: 10/10/2012		SeqNo: 177069		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	2.1	1.0	1.673	0	127	38.6	100			S
4-Chloro-3-methylphenol	2.5	2.5	3.336	0	75.3	35.8	108			
2-Chlorophenol	2.2	1.0	3.336	0	65.8	48.2	96.1			
1,4-Dichlorobenzene	ND	1.0	1.673	0	57.2	42.5	97.6			
2,4-Dinitrotoluene	ND	2.5	1.673	0	65.9	51.2	108			
N-Nitrosodi-n-propylamine	ND	1.0	1.673	0	0	31.6	114			S
4-Nitrophenol	ND	1.3	3.336	0	0	22.7	144			S
Pentachlorophenol	ND	2.0	3.336	0	53.4	24	109			
Phenol	2.0	1.0	3.336	0	61.3	33.1	108			
Pyrene	1.7	1.0	1.673	1.458	12.8	42.7	98.9			S
1,2,4-Trichlorobenzene	1.1	1.0	1.673	0	68.7	27.1	118			
Surr: 2,4,6-Tribromophenol	1.8		3.336		55.0	21.3	145			
Surr: 2-Fluorobiphenyl	1.2		1.673		69.0	20	131			
Surr: 2-Fluorophenol	2.1		3.336		62.7	11.9	130			
Surr: 4-Terphenyl-d14	1.2		1.673		73.7	25.1	149			
Surr: Nitrobenzene-d5	0		1.673		0	25.6	137			S
Surr: Phenol-d5	2.2		3.336		67.4	20.3	132			

Sample ID	1210372-001BMSD		SampType: MSD		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	BatchQC		Batch ID: 4168		RunNo: 6106					
Prep Date:	10/8/2012		Analysis Date: 10/10/2012		SeqNo: 177070		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	2.2	0.99	1.661	0	132	38.6	100	3.07	20	S
4-Chloro-3-methylphenol	2.8	2.5	3.312	0	85.5	35.8	108	12.0	20	
2-Chlorophenol	2.5	0.99	3.312	0	76.2	48.2	96.1	14.0	20	
1,4-Dichlorobenzene	1.1	0.99	1.661	0	65.5	42.5	97.6	12.8	20	
2,4-Dinitrotoluene	ND	2.5	1.661	0	63.3	51.2	108	0	20	
N-Nitrosodi-n-propylamine	ND	0.99	1.661	0	0	31.6	114	0	20	S
4-Nitrophenol	3.5	1.2	3.312	0	107	22.7	144	200	20	R
Pentachlorophenol	ND	2.0	3.312	0	59.1	24	109	0	20	
Phenol	2.4	0.99	3.312	0	73.9	33.1	108	18.0	20	
Pyrene	2.0	0.99	1.661	1.458	31.7	42.7	98.9	17.1	20	S
1,2,4-Trichlorobenzene	1.2	0.99	1.661	0	75.0	27.1	118	8.06	20	
Surr: 2,4,6-Tribromophenol	2.3		3.312		70.5	21.3	145	0	0	
Surr: 2-Fluorobiphenyl	1.3		1.661		79.0	20	131	0	0	
Surr: 2-Fluorophenol	2.5		3.312		74.6	11.9	130	0	0	
Surr: 4-Terphenyl-d14	1.3		1.661		78.0	25.1	149	0	0	
Surr: Nitrobenzene-d5	1.3		1.661		80.2	25.6	137	0	0	
Surr: Phenol-d5	2.7		3.312		82.1	20.3	132	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4133		SampType: MBLK		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	PBW		Batch ID: 4133		RunNo: 6007					
Prep Date:	10/5/2012		Analysis Date: 10/5/2012		SeqNo: 173071		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	10								
Acenaphthylene	ND	10								
Aniline	ND	10								
Anthracene	ND	10								
Azobenzene	ND	10								
Benz(a)anthracene	ND	10								
Benzo(a)pyrene	ND	10								
Benzo(b)fluoranthene	ND	10								
Benzo(g,h,i)perylene	ND	10								
Benzo(k)fluoranthene	ND	10								
Benzoic acid	ND	20								
Benzyl alcohol	ND	10								
Bis(2-chloroethoxy)methane	ND	10								
Bis(2-chloroethyl)ether	ND	10								
Bis(2-chloroisopropyl)ether	ND	10								
Bis(2-ethylhexyl)phthalate	ND	10								
4-Bromophenyl phenyl ether	ND	10								
Butyl benzyl phthalate	ND	10								
Carbazole	ND	10								
4-Chloro-3-methylphenol	ND	10								
4-Chloroaniline	ND	10								
2-Chloronaphthalene	ND	10								
2-Chlorophenol	ND	10								
4-Chlorophenyl phenyl ether	ND	10								
Chrysene	ND	10								
Di-n-butyl phthalate	ND	10								
Di-n-octyl phthalate	ND	10								
Dibenz(a,h)anthracene	ND	10								
Dibenzofuran	ND	10								
1,2-Dichlorobenzene	ND	10								
1,3-Dichlorobenzene	ND	10								
1,4-Dichlorobenzene	ND	10								
3,3'-Dichlorobenzidine	ND	10								
Diethyl phthalate	ND	10								
Dimethyl phthalate	ND	10								
2,4-Dichlorophenol	ND	20								
2,4-Dimethylphenol	ND	10								
4,6-Dinitro-2-methylphenol	ND	20								
2,4-Dinitrophenol	ND	20								
2,4-Dinitrotoluene	ND	10								
2,6-Dinitrotoluene	ND	10								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4133		SampType: MBLK		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	PBW		Batch ID: 4133		RunNo: 6007					
Prep Date:	10/5/2012		Analysis Date: 10/5/2012		SeqNo: 173071		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoranthene	ND	10								
Fluorene	ND	10								
Hexachlorobenzene	ND	10								
Hexachlorobutadiene	ND	10								
Hexachlorocyclopentadiene	ND	10								
Hexachloroethane	ND	10								
Indeno(1,2,3-cd)pyrene	ND	10								
Isophorone	ND	10								
1-Methylnaphthalene	ND	10								
2-Methylnaphthalene	ND	10								
2-Methylphenol	ND	10								
3+4-Methylphenol	ND	10								
N-Nitrosodi-n-propylamine	ND	10								
N-Nitrosodimethylamine	ND	10								
N-Nitrosodiphenylamine	ND	10								
Naphthalene	ND	10								
2-Nitroaniline	ND	10								
3-Nitroaniline	ND	10								
4-Nitroaniline	ND	10								
Nitrobenzene	ND	10								
2-Nitrophenol	ND	10								
4-Nitrophenol	ND	10								
Pentachlorophenol	ND	20								
Phenanthrene	ND	10								
Phenol	ND	10								
Pyrene	ND	10								
Pyridine	ND	10								
1,2,4-Trichlorobenzene	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
Surr: 2,4,6-Tribromophenol	160		200.0		80.9	44.2	126			
Surr: 2-Fluorobiphenyl	77		100.0		77.2	37	114			
Surr: 2-Fluorophenol	130		200.0		66.0	23.4	98			
Surr: 4-Terphenyl-d14	72		100.0		71.9	41.3	116			
Surr: Nitrobenzene-d5	76		100.0		76.3	39.5	118			
Surr: Phenol-d5	120		200.0		58.2	20.9	95.9			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	lcs-4133		SampType: LCS		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	LCSW		Batch ID: 4133		RunNo: 6007					
Prep Date:	10/5/2012		Analysis Date: 10/5/2012		SeqNo: 173072		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	61	10	100.0	0	61.0	38.2	99.4			
4-Chloro-3-methylphenol	140	10	200.0	0	71.6	35.5	108			
2-Chlorophenol	140	10	200.0	0	70.5	29.8	106			
1,4-Dichlorobenzene	65	10	100.0	0	65.4	32.6	91.5			
2,4-Dinitrotoluene	67	10	100.0	0	67.0	44.7	112			
N-Nitrosodi-n-propylamine	73	10	100.0	0	72.6	38.5	105			
4-Nitrophenol	92	10	200.0	0	45.9	11.6	73.1			
Pentachlorophenol	95	20	200.0	0	47.6	20.2	93			
Phenol	120	10	200.0	0	60.3	23	66.1			
Pyrene	61	10	100.0	0	61.4	40.1	101			
1,2,4-Trichlorobenzene	62	10	100.0	0	62.0	37.7	99.1			
Surr: 2,4,6-Tribromophenol	160		200.0		78.1	44.2	126			
Surr: 2-Fluorobiphenyl	72		100.0		72.4	37	114			
Surr: 2-Fluorophenol	140		200.0		71.2	23.4	98			
Surr: 4-Terphenyl-d14	64		100.0		64.3	41.3	116			
Surr: Nitrobenzene-d5	72		100.0		72.1	39.5	118			
Surr: Phenol-d5	130		200.0		66.7	20.9	95.9			

Sample ID	lcsd-4133		SampType: LCSD		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	LCSS02		Batch ID: 4133		RunNo: 6007					
Prep Date:	10/5/2012		Analysis Date: 10/5/2012		SeqNo: 173073		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	64	10	100.0	0	64.1	38.2	99.4	4.96	20	
4-Chloro-3-methylphenol	170	10	200.0	0	83.6	35.5	108	15.4	20	
2-Chlorophenol	130	10	200.0	0	67.2	29.8	106	4.72	20	
1,4-Dichlorobenzene	65	10	100.0	0	64.5	32.6	91.5	1.32	20	
2,4-Dinitrotoluene	78	10	100.0	0	78.4	44.7	112	15.7	20	
N-Nitrosodi-n-propylamine	69	10	100.0	0	68.5	38.5	105	5.84	20	
4-Nitrophenol	110	10	200.0	0	53.4	11.6	73.1	15.1	20	
Pentachlorophenol	100	20	200.0	0	50.6	20.2	93	6.13	20	
Phenol	120	10	200.0	0	59.0	23	66.1	2.26	20	
Pyrene	67	10	100.0	0	66.7	40.1	101	8.21	20	
1,2,4-Trichlorobenzene	61	10	100.0	0	61.0	37.7	99.1	1.56	20	
Surr: 2,4,6-Tribromophenol	150		200.0		76.3	44.2	126	0	0	
Surr: 2-Fluorobiphenyl	69		100.0		68.6	37	114	0	0	
Surr: 2-Fluorophenol	130		200.0		66.7	23.4	98	0	0	
Surr: 4-Terphenyl-d14	67		100.0		66.9	41.3	116	0	0	
Surr: Nitrobenzene-d5	72		100.0		72.1	39.5	118	0	0	
Surr: Phenol-d5	120		200.0		58.6	20.9	95.9	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4150		SampType: MBLK		TestCode: EPA Method 7471: Mercury					
Client ID:	PBS		Batch ID: 4150		RunNo: 6082					
Prep Date:	10/8/2012		Analysis Date: 10/9/2012		SeqNo: 175512		Units: mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercurv	ND	0.033								

Sample ID	LCS-4150		SampType: LCS		TestCode: EPA Method 7471: Mercury					
Client ID:	LCSS		Batch ID: 4150		RunNo: 6082					
Prep Date:	10/8/2012		Analysis Date: 10/9/2012		SeqNo: 175513		Units: mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.19	0.033	0.1667	0	117	80	120			

Sample ID	1210332-015CMS		SampType: MS		TestCode: EPA Method 7471: Mercury					
Client ID:	SWMU 1-5 (24-25')		Batch ID: 4150		RunNo: 6082					
Prep Date:	10/8/2012		Analysis Date: 10/9/2012		SeqNo: 175534		Units: mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.18	0.033	0.1635	0	108	75	125			

Sample ID	1210332-015CMSD		SampType: MSD		TestCode: EPA Method 7471: Mercury					
Client ID:	SWMU 1-5 (24-25')		Batch ID: 4150		RunNo: 6082					
Prep Date:	10/8/2012		Analysis Date: 10/9/2012		SeqNo: 175535		Units: mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.18	0.033	0.1662	0	108	75	125	1.95	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4190		SampType:	MBLK		TestCode:	EPA Method 6010B: Soil Metals			
Client ID:	PBS		Batch ID:	4190		RunNo:	6121			
Prep Date:	10/9/2012		Analysis Date:	10/10/2012		SeqNo:	176356		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	2.5								
Arsenic	ND	2.5								
Beryllium	ND	0.15								
Cadmium	ND	0.10								
Chromium	ND	0.30								
Iron	ND	1.0								
Lead	ND	0.25								
Manganese	ND	0.10								
Nickel	ND	0.50								
Selenium	ND	2.5								
Silver	ND	0.25								
Vanadium	ND	2.5								
Zinc	ND	2.5								

Sample ID	LCS-4190		SampType:	LCS		TestCode:	EPA Method 6010B: Soil Metals			
Client ID:	LCSS		Batch ID:	4190		RunNo:	6121			
Prep Date:	10/9/2012		Analysis Date:	10/10/2012		SeqNo:	176357		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	24	2.5	25.00	0	96.0	80	120			
Arsenic	25	2.5	25.00	0	99.3	80	120			
Beryllium	25	0.15	25.00	0	102	80	120			
Cadmium	25	0.10	25.00	0.04000	100	80	120			
Chromium	25	0.30	25.00	0	99.1	80	120			
Iron	25	1.0	25.00	0	99.9	80	120			
Lead	25	0.25	25.00	0	99.4	80	120			
Manganese	25	0.10	25.00	0.03400	98.1	80	120			
Nickel	24	0.50	25.00	0	95.7	80	120			
Selenium	23	2.5	25.00	0	91.4	80	120			
Silver	5.1	0.25	5.000	0	103	80	120			
Vanadium	25	2.5	25.00	0	101	80	120			
Zinc	25	2.5	25.00	1.304	95.8	80	120			

Sample ID	MB-4190		SampType:	MBLK		TestCode:	EPA Method 6010B: Soil Metals			
Client ID:	PBS		Batch ID:	4190		RunNo:	6163			
Prep Date:	10/9/2012		Analysis Date:	10/11/2012		SeqNo:	177646		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.10								
Cobalt	ND	0.30								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	LCS-4190		SampType: LCS		TestCode: EPA Method 6010B: Soil Metals					
Client ID:	LCSS		Batch ID: 4190		RunNo: 6163					
Prep Date:	10/9/2012		Analysis Date: 10/11/2012		SeqNo: 177647		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	26	0.10	25.00	0.06900	103	80	120			
Cobalt	26	0.30	25.00	0	103	80	120			

Sample ID	1210332-009CMS		SampType: MS		TestCode: EPA Method 6010B: Soil Metals					
Client ID:	SWMU 1-5 (27-28')		Batch ID: 4190		RunNo: 6163					
Prep Date:	10/9/2012		Analysis Date: 10/11/2012		SeqNo: 177670		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	25	0.75	24.45	1.059	97.2	75	125			
Cadmium	23	0.50	24.45	0	92.3	75	125			
Chromium	37	1.5	24.45	14.78	89.3	75	125			
Cobalt	29	1.5	24.45	7.765	86.7	75	125			
Lead	21	1.2	24.45	0	84.0	75	125			
Nickel	33	2.5	24.45	12.30	86.5	75	125			
Selenium	ND	12	24.45	0	0	75	125			S
Silver	4.5	1.2	4.889	0	92.6	75	125			
Vanadium	47	12	24.45	21.78	101	75	125			
Zinc	55	12	24.45	31.31	95.7	75	125			

Sample ID	1210332-009CMSD	SampType: MSD		TestCode: EPA Method 6010B: Soil Metals						
Client ID:	SWMU 1-5 (27-28')	Batch ID: 4190		RunNo: 6163						
Prep Date:	10/9/2012	Analysis Date: 10/11/2012		SeqNo: 177671		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	23	0.75	24.24	1.059	89.2	75	125	9.01	20	S
Cadmium	21	0.50	24.24	0	85.2	75	125	8.90	20	
Chromium	35	1.5	24.24	14.78	81.6	75	125	5.77	20	
Cobalt	26	1.5	24.24	7.765	77.2	75	125	8.96	20	
Lead	20	1.2	24.24	0	82.6	75	125	2.50	20	
Nickel	31	2.5	24.24	12.30	76.9	75	125	7.78	20	
Selenium	ND	12	24.24	0	0	75	125	0	20	
Silver	4.3	1.2	4.848	0	88.3	75	125	5.66	20	
Vanadium	44	12	24.24	21.78	91.5	75	125	5.71	20	
Zinc	50	12	24.24	31.31	76.7	75	125	9.19	20	

Sample ID	1210332-009CMS		SampType: MS		TestCode: EPA Method 6010B: Soil Metals					
Client ID:	SWMU 1-5 (27-28')		Batch ID: 4190		RunNo: 6192					
Prep Date:	10/9/2012		Analysis Date: 10/11/2012		SeqNo: 178373		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	12	24.45	0	0	75	125			S
Arsenic	23	12	24.45	0	94.4	75	125			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210332-009CMSD	SampType:	MSD	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	SWMU 1-5 (27-28')	Batch ID:	4190	RunNo:	6192					
Prep Date:	10/9/2012	Analysis Date:	10/11/2012	SeqNo:	178374	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	12	24.24	0	0	75	125	0	20	S
Arsenic	24	12	24.24	0	100	75	125	5.14	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Western Refining Gallup Work Order Number: 1210332
Received by/date: *[Signature]* 10/05/12
Logged By: Lindsay Mangin 10/5/2012 6:45:00 AM *[Signature]*
Completed By: Lindsay Mangin 10/5/2012 7:28:35 AM *[Signature]*
Reviewed By: *JO* 10/05/12

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? FedEx

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☒ No ☒ NA ☐
-005E-ADDED 1mL HNO₃ FOR ACCEPTABLE PH- 10/05/12
11. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: *3*
(<2 or >12 unless noted)
Adjusted? *Y*
Checked by: *[Signature]*

Special Handling (if applicable)

17. 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:			

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good	Yes			

Chain-of-Custody Record

Client: WESTERN REFINING SW, INC.

GALLUP REFINERY

Mailing Address: ROUTE 3 BOX 7

GALLUP NM 87301

Phone #: 505-722-0217

email or Fax#: SCOTT CROUCH-RPS

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☒ EDD (Type) EXCEL

Turn-Around Time: ☒ Standard ☐ Rush

Project Name: SWMU No. 1

Project #: SCOTT CROUCH-RPS

Project Manager: TRACY PAYNE-RPS

Sampler: SCOTT CROUCH-RPS

On Ice: ☒ Yes ☐ No

Sample Temperature: 21.6

Container Type and #

Preservative Type

HEAL No. 1210332

Date

Time

Matrix

Sample Request ID

19/3/12 0930 GW SWMU 1-3 GW

1 AMBER

PLASTIC

PLASTIC

PLASTIC

2 VIALS SOBI

2 VIALS MECH

3 JARS

2 VIALS SOBI

2 VIALS MECH

1 JAR

1300 SOIL SWMU 1-4 (8-10)

1315 SOIL SWMU 1-4 (10-12)

19/4/12 0717

19/4/12 0717

Relinquished by: 7

Relinquished by:

Received by: 10/05/12 0645

Received by:

Date: 10/05/12 0645

Date:

Remarks:

TPH 8015B (GRO / DRO / MRO)

BTEX + MTBE + TPH (Gas only)

BTEX + MTBE + TMB's (8021)

TPH (Method 418.1)

EDB (Method 504.1)

PAH's (8310 or 8270 SIMS)

RCRA 8 Metals

Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)

8081 Pesticides / 8082 PCB's

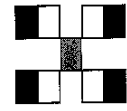
8260B (VOA) + TPH GRC

8270 (Semi-VOA)

TPH MRO & DRO

METALS

Air Bubbles (Y or N)



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request



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

November 14, 2012

Scott Crouch

Western Refining Southwest, Gallup

Rt. 3 Box 7

Gallup, NM 87301

TEL:

FAX

RE: SWMU NO.1

OrderNo.: 1210372

Dear Scott Crouch:

Hall Environmental Analysis Laboratory received 28 sample(s) on 10/6/2012 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued October 29, 2012.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (2-4')

Project: SWMU NO.1

Collection Date: 10/5/2012 2:10:00 PM

Lab ID: 1210372-001

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	4700	1000		mg/Kg	100	10/9/2012 12:21:25 PM
Motor Oil Range Organics (MRO)	ND	5000		mg/Kg	100	10/9/2012 12:21:25 PM
Surr: DNOP	0	77.6-140	S	%REC	100	10/9/2012 12:21:25 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	410	250		mg/Kg	50	10/10/2012 4:13:23 PM
Surr: BFB	159	84-116	S	%REC	50	10/10/2012 4:13:23 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	1.4	0.33		mg/kg	10	10/11/2012 3:46:24 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 2:29:04 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 2:29:04 PM
Barium	450	1.0		mg/Kg	10	10/11/2012 3:14:12 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 2:29:04 PM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 2:29:04 PM
Chromium	400	3.0		mg/Kg	10	10/11/2012 3:14:12 PM
Cobalt	8.1	1.5		mg/Kg	5	10/11/2012 2:29:04 PM
Iron	16000	500		mg/Kg	500	10/11/2012 3:19:11 PM
Lead	80	1.2		mg/Kg	5	10/11/2012 2:29:04 PM
Manganese	480	1.0		mg/Kg	10	10/11/2012 3:14:12 PM
Nickel	15	2.5		mg/Kg	5	10/11/2012 2:29:04 PM
Selenium	ND	12		mg/Kg	5	10/11/2012 2:29:04 PM
Silver	ND	1.2		mg/Kg	5	10/11/2012 2:29:04 PM
Vanadium	20	12		mg/Kg	5	10/11/2012 2:29:04 PM
Zinc	720	120		mg/Kg	50	10/11/2012 3:16:43 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Acenaphthylene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Aniline	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Anthracene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Azobenzene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Benz(a)anthracene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Benzo(a)pyrene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Benzo(b)fluoranthene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Benzo(g,h,i)perylene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Benzo(k)fluoranthene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Benzoic acid	ND	2.5		mg/Kg	1	10/10/2012 2:41:03 PM
Benzyl alcohol	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Bis(2-chloroethoxy)methane	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Bis(2-chloroethyl)ether	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Bis(2-chloroisopropyl)ether	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (2-4")

Project: SWMU NO.1

Collection Date: 10/5/2012 2:10:00 PM

Lab ID: 1210372-001

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	2.5		mg/Kg	1	10/10/2012 2:41:03 PM
4-Bromophenyl phenyl ether	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Butyl benzyl phthalate	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Carbazole	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
4-Chloro-3-methylphenol	ND	2.5		mg/Kg	1	10/10/2012 2:41:03 PM
4-Chloroaniline	ND	2.5		mg/Kg	1	10/10/2012 2:41:03 PM
2-Chloronaphthalene	ND	1.3		mg/Kg	1	10/10/2012 2:41:03 PM
2-Chlorophenol	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
4-Chlorophenyl phenyl ether	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Chrysene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Di-n-butyl phthalate	ND	2.5		mg/Kg	1	10/10/2012 2:41:03 PM
Di-n-octyl phthalate	ND	1.3		mg/Kg	1	10/10/2012 2:41:03 PM
Dibenz(a,h)anthracene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Dibenzofuran	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
1,2-Dichlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
1,3-Dichlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
1,4-Dichlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
3,3'-Dichlorobenzidine	ND	1.3		mg/Kg	1	10/10/2012 2:41:03 PM
Diethyl phthalate	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Dimethyl phthalate	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
2,4-Dichlorophenol	ND	2.0		mg/Kg	1	10/10/2012 2:41:03 PM
2,4-Dimethylphenol	ND	1.5		mg/Kg	1	10/10/2012 2:41:03 PM
4,6-Dinitro-2-methylphenol	ND	2.5		mg/Kg	1	10/10/2012 2:41:03 PM
2,4-Dinitrophenol	ND	2.0		mg/Kg	1	10/10/2012 2:41:03 PM
2,4-Dinitrotoluene	ND	2.5		mg/Kg	1	10/10/2012 2:41:03 PM
2,6-Dinitrotoluene	ND	2.5		mg/Kg	1	10/10/2012 2:41:03 PM
Fluoranthene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Fluorene	3.7	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Hexachlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Hexachlorobutadiene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Hexachlorocyclopentadiene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Hexachloroethane	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Indeno(1,2,3-cd)pyrene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Isophorone	ND	2.5		mg/Kg	1	10/10/2012 2:41:03 PM
1-Methylnaphthalene	43	10		mg/Kg	10	10/10/2012 3:12:23 PM
2-Methylnaphthalene	55	10		mg/Kg	10	10/10/2012 3:12:23 PM
2-Methylphenol	ND	2.5		mg/Kg	1	10/10/2012 2:41:03 PM
3+4-Methylphenol	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
N-Nitrosodi-n-propylamine	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
N-Nitrosodiphenylamine	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Naphthalene	7.9	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
2-Nitroaniline	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (2-4")

Project: SWMU NO.1

Collection Date: 10/5/2012 2:10:00 PM

Lab ID: 1210372-001

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
4-Nitroaniline	ND	2.0		mg/Kg	1	10/10/2012 2:41:03 PM
Nitrobenzene	ND	2.5		mg/Kg	1	10/10/2012 2:41:03 PM
2-Nitrophenol	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
4-Nitrophenol	ND	1.3		mg/Kg	1	10/10/2012 2:41:03 PM
Pentachlorophenol	ND	2.0		mg/Kg	1	10/10/2012 2:41:03 PM
Phenanthrene	11	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Phenol	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Pyrene	1.5	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Pyridine	ND	2.5		mg/Kg	1	10/10/2012 2:41:03 PM
1,2,4-Trichlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
2,4,5-Trichlorophenol	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
2,4,6-Trichlorophenol	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Surr: 2,4,6-Tribromophenol	39.2	21.3-145		%REC	1	10/10/2012 2:41:03 PM
Surr: 2-Fluorobiphenyl	65.5	20-131		%REC	1	10/10/2012 2:41:03 PM
Surr: 2-Fluorophenol	76.1	11.9-130		%REC	1	10/10/2012 2:41:03 PM
Surr: 4-Terphenyl-d14	80.1	25.1-149		%REC	1	10/10/2012 2:41:03 PM
Surr: Nitrobenzene-d5	0	25.6-137	S	%REC	1	10/10/2012 2:41:03 PM
Surr: Phenol-d5	74.1	20.3-132		%REC	1	10/10/2012 2:41:03 PM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	3.2	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Toluene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Ethylbenzene	5.8	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Methyl tert-butyl ether (MTBE)	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,2,4-Trimethylbenzene	17	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,3,5-Trimethylbenzene	5.8	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,2-Dichloroethane (EDC)	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,2-Dibromoethane (EDB)	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Naphthalene	13	5.0		mg/Kg	50	10/15/2012 11:08:23 PM
1-Methylnaphthalene	35	10		mg/Kg	50	10/15/2012 11:08:23 PM
2-Methylnaphthalene	48	10		mg/Kg	50	10/15/2012 11:08:23 PM
Acetone	ND	38		mg/Kg	50	10/15/2012 11:08:23 PM
Bromobenzene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Bromodichloromethane	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Bromoform	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Bromomethane	ND	7.5		mg/Kg	50	10/15/2012 11:08:23 PM
2-Butanone	ND	25		mg/Kg	50	10/15/2012 11:08:23 PM
Carbon disulfide	ND	25		mg/Kg	50	10/15/2012 11:08:23 PM
Carbon tetrachloride	ND	5.0		mg/Kg	50	10/15/2012 11:08:23 PM
Chlorobenzene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Chloroethane	ND	5.0		mg/Kg	50	10/15/2012 11:08:23 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (2-4")

Project: SWMU NO.1

Collection Date: 10/5/2012 2:10:00 PM

Lab ID: 1210372-001

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Chloroform	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Chloromethane	ND	7.5		mg/Kg	50	10/15/2012 11:08:23 PM
2-Chlorotoluene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
4-Chlorotoluene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
cis-1,2-DCE	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
cis-1,3-Dichloropropene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,2-Dibromo-3-chloropropane	ND	5.0		mg/Kg	50	10/15/2012 11:08:23 PM
Dibromochloromethane	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Dibromomethane	ND	5.0		mg/Kg	50	10/15/2012 11:08:23 PM
1,2-Dichlorobenzene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,3-Dichlorobenzene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,4-Dichlorobenzene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Dichlorodifluoromethane	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,1-Dichloroethane	ND	5.0		mg/Kg	50	10/15/2012 11:08:23 PM
1,1-Dichloroethene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,2-Dichloropropane	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,3-Dichloropropane	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
2,2-Dichloropropane	ND	5.0		mg/Kg	50	10/15/2012 11:08:23 PM
1,1-Dichloropropene	ND	5.0		mg/Kg	50	10/15/2012 11:08:23 PM
Hexachlorobutadiene	ND	5.0		mg/Kg	50	10/15/2012 11:08:23 PM
2-Hexanone	ND	25		mg/Kg	50	10/15/2012 11:08:23 PM
Isopropylbenzene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
4-Isopropyltoluene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
4-Methyl-2-pentanone	ND	25		mg/Kg	50	10/15/2012 11:08:23 PM
Methylene chloride	ND	7.5		mg/Kg	50	10/15/2012 11:08:23 PM
n-Butylbenzene	ND	7.5		mg/Kg	50	10/15/2012 11:08:23 PM
n-Propylbenzene	2.8	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
sec-Butylbenzene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Styrene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
tert-Butylbenzene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,1,1,2-Tetrachloroethane	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,1,2,2-Tetrachloroethane	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Tetrachloroethene (PCE)	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
trans-1,2-DCE	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
trans-1,3-Dichloropropene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,2,3-Trichlorobenzene	ND	5.0		mg/Kg	50	10/15/2012 11:08:23 PM
1,2,4-Trichlorobenzene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,1,1-Trichloroethane	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,1,2-Trichloroethane	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Trichloroethene (TCE)	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Trichlorofluoromethane	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,2,3-Trichloropropane	ND	5.0		mg/Kg	50	10/15/2012 11:08:23 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (2-4')

Project: SWMU NO.1

Collection Date: 10/5/2012 2:10:00 PM

Lab ID: 1210372-001

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Vinyl chloride	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Xylenes, Total	24	5.0		mg/Kg	50	10/15/2012 11:08:23 PM
Surr: 1,2-Dichloroethane-d4	98.3	70-130		%REC	50	10/15/2012 11:08:23 PM
Surr: 4-Bromofluorobenzene	80.1	70-130		%REC	50	10/15/2012 11:08:23 PM
Surr: Dibromofluoromethane	91.8	70-130		%REC	50	10/15/2012 11:08:23 PM
Surr: Toluene-d8	98.8	70-130		%REC	50	10/15/2012 11:08:23 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (10-12')

Project: SWMU NO.1

Collection Date: 10/5/2012 2:15:00 PM

Lab ID: 1210372-002

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	820	100		mg/Kg	10	10/9/2012 11:59:39 AM
Motor Oil Range Organics (MRO)	ND	510		mg/Kg	10	10/9/2012 11:59:39 AM
Surr: DNOP	0	77.6-140	S	%REC	10	10/9/2012 11:59:39 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	10/10/2012 5:10:59 PM
Surr: BFB	124	84-116	S	%REC	5	10/10/2012 5:10:59 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/11/2012 3:19:49 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 2:47:13 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 2:47:13 PM
Barium	300	1.0		mg/Kg	10	10/11/2012 3:21:49 PM
Beryllium	1.2	0.75		mg/Kg	5	10/11/2012 2:47:13 PM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 2:47:13 PM
Chromium	16	1.5		mg/Kg	5	10/11/2012 2:47:13 PM
Cobalt	7.5	1.5		mg/Kg	5	10/11/2012 2:47:13 PM
Iron	23000	500		mg/Kg	500	10/11/2012 3:29:57 PM
Lead	3.3	1.2		mg/Kg	5	10/11/2012 2:47:13 PM
Manganese	290	1.0		mg/Kg	10	10/11/2012 3:21:49 PM
Nickel	15	2.5		mg/Kg	5	10/11/2012 2:47:13 PM
Selenium	ND	12		mg/Kg	5	10/11/2012 2:47:13 PM
Silver	ND	1.2		mg/Kg	5	10/11/2012 2:47:13 PM
Vanadium	25	12		mg/Kg	5	10/11/2012 2:47:13 PM
Zinc	29	12		mg/Kg	5	10/11/2012 2:47:13 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Benzoic acid	ND	0.50		mg/Kg	1	10/10/2012 3:05:05 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (10-12')

Project: SWMU NO.1

Collection Date: 10/5/2012 2:15:00 PM

Lab ID: 1210372-002

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/10/2012 3:05:05 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 3:05:05 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/10/2012 3:05:05 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 3:05:05 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/10/2012 3:05:05 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 3:05:05 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 3:05:05 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 3:05:05 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 3:05:05 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 3:05:05 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 3:05:05 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 3:05:05 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 3:05:05 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Fluorene	0.68	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Isophorone	ND	0.50		mg/Kg	1	10/10/2012 3:05:05 AM
1-Methylnaphthalene	7.9	2.0		mg/Kg	10	10/10/2012 1:10:56 PM
2-Methylnaphthalene	14	2.0		mg/Kg	10	10/10/2012 1:10:56 PM
2-Methylphenol	ND	0.50		mg/Kg	1	10/10/2012 3:05:05 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Naphthalene	1.1	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (10-12')

Project: SWMU NO.1

Collection Date: 10/5/2012 2:15:00 PM

Lab ID: 1210372-002

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 3:05:05 AM
Nitrobenzene	ND	0.50		mg/Kg	1	10/10/2012 3:05:05 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 3:05:05 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 3:05:05 AM
Phenanthrene	1.5	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Pyridine	ND	0.50		mg/Kg	1	10/10/2012 3:05:05 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Surr: 2,4,6-Tribromophenol	66.8	21.3-145		%REC	1	10/10/2012 3:05:05 AM
Surr: 2-Fluorobiphenyl	80.4	20-131		%REC	1	10/10/2012 3:05:05 AM
Surr: 2-Fluorophenol	92.8	11.9-130		%REC	1	10/10/2012 3:05:05 AM
Surr: 4-Terphenyl-d14	79.4	25.1-149		%REC	1	10/10/2012 3:05:05 AM
Surr: Nitrobenzene-d5	94.3	25.6-137		%REC	1	10/10/2012 3:05:05 AM
Surr: Phenol-d5	97.2	20.3-132		%REC	1	10/10/2012 3:05:05 AM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Toluene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Ethylbenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Methyl tert-butyl ether (MTBE)	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,2,4-Trimethylbenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,3,5-Trimethylbenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,2-Dichloroethane (EDC)	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,2-Dibromoethane (EDB)	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Naphthalene	1.3	1.0		mg/Kg	10	10/15/2012 11:36:31 PM
1-Methylnaphthalene	6.4	2.0		mg/Kg	10	10/15/2012 11:36:31 PM
2-Methylnaphthalene	13	2.0		mg/Kg	10	10/15/2012 11:36:31 PM
Acetone	ND	7.5		mg/Kg	10	10/15/2012 11:36:31 PM
Bromobenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Bromodichloromethane	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Bromoform	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Bromomethane	ND	1.5		mg/Kg	10	10/15/2012 11:36:31 PM
2-Butanone	ND	5.0		mg/Kg	10	10/15/2012 11:36:31 PM
Carbon disulfide	ND	5.0		mg/Kg	10	10/15/2012 11:36:31 PM
Carbon tetrachloride	ND	1.0		mg/Kg	10	10/15/2012 11:36:31 PM
Chlorobenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Chloroethane	ND	1.0		mg/Kg	10	10/15/2012 11:36:31 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (10-12')

Project: SWMU NO.1

Collection Date: 10/5/2012 2:15:00 PM

Lab ID: 1210372-002

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Chloroform	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Chloromethane	ND	1.5		mg/Kg	10	10/15/2012 11:36:31 PM
2-Chlorotoluene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
4-Chlorotoluene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
cis-1,2-DCE	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
cis-1,3-Dichloropropene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,2-Dibromo-3-chloropropane	ND	1.0		mg/Kg	10	10/15/2012 11:36:31 PM
Dibromochloromethane	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Dibromomethane	ND	1.0		mg/Kg	10	10/15/2012 11:36:31 PM
1,2-Dichlorobenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,3-Dichlorobenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,4-Dichlorobenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Dichlorodifluoromethane	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,1-Dichloroethane	ND	1.0		mg/Kg	10	10/15/2012 11:36:31 PM
1,1-Dichloroethene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,2-Dichloropropane	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,3-Dichloropropane	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
2,2-Dichloropropane	ND	1.0		mg/Kg	10	10/15/2012 11:36:31 PM
1,1-Dichloropropene	ND	1.0		mg/Kg	10	10/15/2012 11:36:31 PM
Hexachlorobutadiene	ND	1.0		mg/Kg	10	10/15/2012 11:36:31 PM
2-Hexanone	ND	5.0		mg/Kg	10	10/15/2012 11:36:31 PM
Isopropylbenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
4-Isopropyltoluene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
4-Methyl-2-pentanone	ND	5.0		mg/Kg	10	10/15/2012 11:36:31 PM
Methylene chloride	ND	1.5		mg/Kg	10	10/15/2012 11:36:31 PM
n-Butylbenzene	ND	1.5		mg/Kg	10	10/15/2012 11:36:31 PM
n-Propylbenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
sec-Butylbenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Styrene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
tert-Butylbenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,1,1,2-Tetrachloroethane	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,1,2,2-Tetrachloroethane	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Tetrachloroethene (PCE)	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
trans-1,2-DCE	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
trans-1,3-Dichloropropene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,2,3-Trichlorobenzene	ND	1.0		mg/Kg	10	10/15/2012 11:36:31 PM
1,2,4-Trichlorobenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,1,1-Trichloroethane	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,1,2-Trichloroethane	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Trichloroethene (TCE)	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Trichlorofluoromethane	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,2,3-Trichloropropane	ND	1.0		mg/Kg	10	10/15/2012 11:36:31 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (10-12')

Project: SWMU NO.1

Collection Date: 10/5/2012 2:15:00 PM

Lab ID: 1210372-002

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Vinyl chloride	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Xylenes, Total	ND	1.0		mg/Kg	10	10/15/2012 11:36:31 PM
Surr: 1,2-Dichloroethane-d4	94.0	70-130		%REC	10	10/15/2012 11:36:31 PM
Surr: 4-Bromofluorobenzene	90.2	70-130		%REC	10	10/15/2012 11:36:31 PM
Surr: Dibromofluoromethane	91.4	70-130		%REC	10	10/15/2012 11:36:31 PM
Surr: Toluene-d8	95.0	70-130		%REC	10	10/15/2012 11:36:31 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (13-14')

Project: SWMU NO.1

Collection Date: 10/5/2012 2:30:00 PM

Lab ID: 1210372-003

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	55	10		mg/Kg	1	10/9/2012 9:16:28 AM
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	10/9/2012 9:16:28 AM
Surr: DNOP	99.7	77.6-140		%REC	1	10/9/2012 9:16:28 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/10/2012 6:08:27 PM
Surr: BFB	113	84-116		%REC	1	10/10/2012 6:08:27 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/11/2012 3:21:36 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	25		mg/Kg	10	10/11/2012 3:32:36 PM
Arsenic	ND	25		mg/Kg	10	10/11/2012 3:32:36 PM
Barium	630	5.0		mg/Kg	50	10/11/2012 3:39:36 PM
Beryllium	ND	1.5		mg/Kg	10	10/11/2012 3:32:36 PM
Cadmium	ND	1.0		mg/Kg	10	10/11/2012 3:32:36 PM
Chromium	6.8	3.0		mg/Kg	10	10/11/2012 3:32:36 PM
Cobalt	8.0	3.0		mg/Kg	10	10/11/2012 3:32:36 PM
Iron	8100	500		mg/Kg	500	10/11/2012 3:41:59 PM
Lead	ND	2.5		mg/Kg	10	10/11/2012 3:32:36 PM
Manganese	2800	50		mg/Kg	500	10/11/2012 3:41:59 PM
Nickel	8.3	5.0		mg/Kg	10	10/11/2012 3:32:36 PM
Selenium	ND	25		mg/Kg	10	10/11/2012 3:32:36 PM
Silver	ND	2.5		mg/Kg	10	10/11/2012 3:32:36 PM
Vanadium	30	25		mg/Kg	10	10/11/2012 3:32:36 PM
Zinc	ND	25		mg/Kg	10	10/11/2012 3:32:36 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Benzoic acid	ND	0.50		mg/Kg	1	10/10/2012 3:34:07 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (13-14')

Project: SWMU NO.1

Collection Date: 10/5/2012 2:30:00 PM

Lab ID: 1210372-003

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/10/2012 3:34:07 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 3:34:07 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/10/2012 3:34:07 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 3:34:07 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/10/2012 3:34:07 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 3:34:07 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 3:34:07 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 3:34:07 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 3:34:07 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 3:34:07 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 3:34:07 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 3:34:07 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 3:34:07 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Fluorene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Isophorone	ND	0.50		mg/Kg	1	10/10/2012 3:34:07 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
2-Methylphenol	ND	0.50		mg/Kg	1	10/10/2012 3:34:07 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Naphthalene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (13-14')

Project: SWMU NO.1

Collection Date: 10/5/2012 2:30:00 PM

Lab ID: 1210372-003

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 3:34:07 AM
Nitrobenzene	ND	0.50		mg/Kg	1	10/10/2012 3:34:07 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 3:34:07 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 3:34:07 AM
Phenanthrene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Pyridine	ND	0.50		mg/Kg	1	10/10/2012 3:34:07 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Surr: 2,4,6-Tribromophenol	82.4	21.3-145		%REC	1	10/10/2012 3:34:07 AM
Surr: 2-Fluorobiphenyl	81.7	20-131		%REC	1	10/10/2012 3:34:07 AM
Surr: 2-Fluorophenol	79.4	11.9-130		%REC	1	10/10/2012 3:34:07 AM
Surr: 4-Terphenyl-d14	77.5	25.1-149		%REC	1	10/10/2012 3:34:07 AM
Surr: Nitrobenzene-d5	83.4	25.6-137		%REC	1	10/10/2012 3:34:07 AM
Surr: Phenol-d5	87.9	20.3-132		%REC	1	10/10/2012 3:34:07 AM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Toluene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Naphthalene	ND	0.10		mg/Kg	1	10/16/2012 12:32:33 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/16/2012 12:32:33 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/16/2012 12:32:33 AM
Acetone	ND	0.75		mg/Kg	1	10/16/2012 12:32:33 AM
Bromobenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Bromoform	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Bromomethane	ND	0.15		mg/Kg	1	10/16/2012 12:32:33 AM
2-Butanone	ND	0.50		mg/Kg	1	10/16/2012 12:32:33 AM
Carbon disulfide	ND	0.50		mg/Kg	1	10/16/2012 12:32:33 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	10/16/2012 12:32:33 AM
Chlorobenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Chloroethane	ND	0.10		mg/Kg	1	10/16/2012 12:32:33 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (13-14')

Project: SWMU NO.1

Collection Date: 10/5/2012 2:30:00 PM

Lab ID: 1210372-003

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Chloroform	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Chloromethane	ND	0.15		mg/Kg	1	10/16/2012 12:32:33 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	10/16/2012 12:32:33 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Dibromomethane	ND	0.10		mg/Kg	1	10/16/2012 12:32:33 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	10/16/2012 12:32:33 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	10/16/2012 12:32:33 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	10/16/2012 12:32:33 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	10/16/2012 12:32:33 AM
2-Hexanone	ND	0.50		mg/Kg	1	10/16/2012 12:32:33 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	10/16/2012 12:32:33 AM
Methylene chloride	ND	0.15		mg/Kg	1	10/16/2012 12:32:33 AM
n-Butylbenzene	ND	0.15		mg/Kg	1	10/16/2012 12:32:33 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Styrene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	10/16/2012 12:32:33 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	10/16/2012 12:32:33 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (13-14')

Project: SWMU NO.1

Collection Date: 10/5/2012 2:30:00 PM

Lab ID: 1210372-003

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Vinyl chloride	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Xylenes, Total	ND	0.10		mg/Kg	1	10/16/2012 12:32:33 AM
Surr: 1,2-Dichloroethane-d4	94.9	70-130		%REC	1	10/16/2012 12:32:33 AM
Surr: 4-Bromofluorobenzene	81.8	70-130		%REC	1	10/16/2012 12:32:33 AM
Surr: Dibromofluoromethane	92.1	70-130		%REC	1	10/16/2012 12:32:33 AM
Surr: Toluene-d8	99.7	70-130		%REC	1	10/16/2012 12:32:33 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (16-18') DUP

Project: SWMU NO.1

Collection Date: 10/5/2012 11:10:00 AM

Lab ID: 1210372-004

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/9/2012 9:38:07 AM
Motor Oil Range Organics (MRO)	ND	52		mg/Kg	1	10/9/2012 9:38:07 AM
Surr: DNOP	91.2	77.6-140		%REC	1	10/9/2012 9:38:07 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/8/2012 8:34:40 PM
Surr: BFB	103	84-116		%REC	1	10/8/2012 8:34:40 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/11/2012 3:23:22 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 3:44:52 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 3:44:52 PM
Barium	530	5.0		mg/Kg	50	10/11/2012 3:47:18 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 3:44:52 PM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 3:44:52 PM
Chromium	6.6	1.5		mg/Kg	5	10/11/2012 3:44:52 PM
Cobalt	3.5	1.5		mg/Kg	5	10/11/2012 3:44:52 PM
Iron	9100	500		mg/Kg	500	10/11/2012 3:49:43 PM
Lead	2.5	1.2		mg/Kg	5	10/11/2012 3:44:52 PM
Manganese	660	5.0		mg/Kg	50	10/11/2012 3:47:18 PM
Nickel	4.4	2.5		mg/Kg	5	10/11/2012 3:44:52 PM
Selenium	ND	12		mg/Kg	5	10/11/2012 3:44:52 PM
Silver	ND	1.2		mg/Kg	5	10/11/2012 3:44:52 PM
Vanadium	23	12		mg/Kg	5	10/11/2012 3:44:52 PM
Zinc	ND	12		mg/Kg	5	10/11/2012 3:44:52 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Benzoic acid	ND	0.50		mg/Kg	1	10/10/2012 4:03:08 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (16-18') DUP

Project: SWMU NO.1

Collection Date: 10/5/2012 11:10:00 AM

Lab ID: 1210372-004

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/10/2012 4:03:08 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 4:03:08 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/10/2012 4:03:08 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 4:03:08 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/10/2012 4:03:08 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 4:03:08 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 4:03:08 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 4:03:08 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 4:03:08 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 4:03:08 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 4:03:08 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 4:03:08 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 4:03:08 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Fluorene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Isophorone	ND	0.50		mg/Kg	1	10/10/2012 4:03:08 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
2-Methylphenol	ND	0.50		mg/Kg	1	10/10/2012 4:03:08 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Naphthalene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (16-18') DUP

Project: SWMU NO.1

Collection Date: 10/5/2012 11:10:00 AM

Lab ID: 1210372-004

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 4:03:08 AM
Nitrobenzene	ND	0.50		mg/Kg	1	10/10/2012 4:03:08 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 4:03:08 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 4:03:08 AM
Phenanthrene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Pyridine	ND	0.50		mg/Kg	1	10/10/2012 4:03:08 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Surr: 2,4,6-Tribromophenol	70.7	21.3-145		%REC	1	10/10/2012 4:03:08 AM
Surr: 2-Fluorobiphenyl	74.1	20-131		%REC	1	10/10/2012 4:03:08 AM
Surr: 2-Fluorophenol	74.7	11.9-130		%REC	1	10/10/2012 4:03:08 AM
Surr: 4-Terphenyl-d14	66.8	25.1-149		%REC	1	10/10/2012 4:03:08 AM
Surr: Nitrobenzene-d5	74.1	25.6-137		%REC	1	10/10/2012 4:03:08 AM
Surr: Phenol-d5	80.3	20.3-132		%REC	1	10/10/2012 4:03:08 AM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	0.00148	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Toluene	0.00121	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Ethylbenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Xylenes, Total	ND	0.00212		mg/Kg	1	10/9/2012 10:42:46 PM
Methyl tert-butyl ether (MTBE)	0.0240	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,2,4-Trimethylbenzene	0.00109	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,3,5-Trimethylbenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,2-Dichloroethane (EDC)	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,2-Dibromoethane (EDB)	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Naphthalene	ND	0.00212		mg/Kg	1	10/9/2012 10:42:46 PM
1-Methylnaphthalene	ND	0.00424		mg/Kg	1	10/9/2012 10:42:46 PM
2-Methylnaphthalene	ND	0.00424		mg/Kg	1	10/9/2012 10:42:46 PM
Acetone	0.0370	0.0106		mg/Kg	1	10/9/2012 10:42:46 PM
Bromobenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Bromodichloromethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Bromoform	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Bromomethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
2-Butanone	ND	0.0106		mg/Kg	1	10/9/2012 10:42:46 PM
Carbon tetrachloride	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Chlorobenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Chloroethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (16-18') DUP

Project: SWMU NO.1

Collection Date: 10/5/2012 11:10:00 AM

Lab ID: 1210372-004

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Chloromethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
2-Chlorotoluene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Carbon disulfide	ND	0.0106		mg/Kg	1	10/9/2012 10:42:46 PM
4-Chlorotoluene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
cis-1,2-DCE	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
cis-1,3-Dichloropropene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,2-Dibromo-3-chloropropane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Dibromochloromethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Dibromomethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,2-Dichlorobenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,3-Dichlorobenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,4-Dichlorobenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Dichlorodifluoromethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,1-Dichloroethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,1-Dichloroethene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,2-Dichloropropane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,3-Dichloropropane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
2,2-Dichloropropane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,1-Dichloropropene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Hexachlorobutadiene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Isopropylbenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
4-Isopropyltoluene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Methylene chloride	ND	0.00318		mg/Kg	1	10/9/2012 10:42:46 PM
n-Butylbenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
2-Hexanone	ND	0.0106		mg/Kg	1	10/9/2012 10:42:46 PM
n-Propylbenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
sec-Butylbenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Styrene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
4-Methyl-2-pentanone	ND	0.0106		mg/Kg	1	10/9/2012 10:42:46 PM
tert-Butylbenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,1,1,2-Tetrachloroethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,1,2,2-Tetrachloroethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Tetrachloroethene (PCE)	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
trans-1,2-DCE	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
trans-1,3-Dichloropropene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,2,3-Trichlorobenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,2,4-Trichlorobenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,1,1-Trichloroethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,1,2-Trichloroethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Trichloroethene (TCE)	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Trichlorofluoromethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (16-18') DUP

Project: SWMU NO.1

Collection Date: 10/5/2012 11:10:00 AM

Lab ID: 1210372-004

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Vinyl chloride	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Surr: 1,2-Dichloroethane-d4	97.6	70-130		%REC	1	10/9/2012 10:42:46 PM
Surr: 4-Bromofluorobenzene	95.0	70-130		%REC	1	10/9/2012 10:42:46 PM
Surr: Dibromofluoromethane	108	70-130		%REC	1	10/9/2012 10:42:46 PM
Surr: Toluene-d8	95.8	70-130		%REC	1	10/9/2012 10:42:46 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (19-20')

Project: SWMU NO.1

Collection Date: 10/5/2012 11:25:00 AM

Lab ID: 1210372-005

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/9/2012 9:59:40 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/9/2012 9:59:40 AM
Surr: DNOP	95.4	77.6-140		%REC	1	10/9/2012 9:59:40 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/8/2012 11:27:22 PM
Surr: BFB	100	84-116		%REC	1	10/8/2012 11:27:22 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/11/2012 3:25:08 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 3:52:34 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 3:52:34 PM
Barium	300	5.0		mg/Kg	50	10/11/2012 3:55:01 PM
Beryllium	0.95	0.75		mg/Kg	5	10/11/2012 3:52:34 PM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 3:52:34 PM
Chromium	14	1.5		mg/Kg	5	10/11/2012 3:52:34 PM
Cobalt	8.2	1.5		mg/Kg	5	10/11/2012 3:52:34 PM
Iron	19000	500		mg/Kg	500	10/11/2012 3:57:26 PM
Lead	ND	1.2		mg/Kg	5	10/11/2012 3:52:34 PM
Manganese	300	5.0		mg/Kg	50	10/11/2012 3:55:01 PM
Nickel	12	2.5		mg/Kg	5	10/11/2012 3:52:34 PM
Selenium	ND	12		mg/Kg	5	10/11/2012 3:52:34 PM
Silver	ND	1.2		mg/Kg	5	10/11/2012 3:52:34 PM
Vanadium	26	12		mg/Kg	5	10/11/2012 3:52:34 PM
Zinc	29	12		mg/Kg	5	10/11/2012 3:52:34 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Benzoic acid	ND	0.50		mg/Kg	1	10/10/2012 4:32:12 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (19-20')

Project: SWMU NO.1

Collection Date: 10/5/2012 11:25:00 AM

Lab ID: 1210372-005

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/10/2012 4:32:12 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 4:32:12 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/10/2012 4:32:12 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 4:32:12 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/10/2012 4:32:12 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 4:32:12 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 4:32:12 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 4:32:12 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 4:32:12 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 4:32:12 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 4:32:12 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 4:32:12 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 4:32:12 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Fluorene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Isophorone	ND	0.50		mg/Kg	1	10/10/2012 4:32:12 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
2-Methylphenol	ND	0.50		mg/Kg	1	10/10/2012 4:32:12 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Naphthalene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (19-20')

Project: SWMU NO.1

Collection Date: 10/5/2012 11:25:00 AM

Lab ID: 1210372-005

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 4:32:12 AM
Nitrobenzene	ND	0.50		mg/Kg	1	10/10/2012 4:32:12 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 4:32:12 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 4:32:12 AM
Phenanthrene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Pyridine	ND	0.50		mg/Kg	1	10/10/2012 4:32:12 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Surr: 2,4,6-Tribromophenol	62.5	21.3-145		%REC	1	10/10/2012 4:32:12 AM
Surr: 2-Fluorobiphenyl	55.9	20-131		%REC	1	10/10/2012 4:32:12 AM
Surr: 2-Fluorophenol	55.9	11.9-130		%REC	1	10/10/2012 4:32:12 AM
Surr: 4-Terphenyl-d14	54.9	25.1-149		%REC	1	10/10/2012 4:32:12 AM
Surr: Nitrobenzene-d5	56.1	25.6-137		%REC	1	10/10/2012 4:32:12 AM
Surr: Phenol-d5	60.2	20.3-132		%REC	1	10/10/2012 4:32:12 AM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Toluene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Ethylbenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Xylenes, Total	ND	0.00218		mg/Kg	1	10/9/2012 8:39:34 PM
Methyl tert-butyl ether (MTBE)	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,2,4-Trimethylbenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,3,5-Trimethylbenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,2-Dichloroethane (EDC)	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,2-Dibromoethane (EDB)	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Naphthalene	ND	0.00218		mg/Kg	1	10/9/2012 8:39:34 PM
1-Methylnaphthalene	ND	0.00435		mg/Kg	1	10/9/2012 8:39:34 PM
2-Methylnaphthalene	ND	0.00435		mg/Kg	1	10/9/2012 8:39:34 PM
Acetone	0.0272	0.0109		mg/Kg	1	10/9/2012 8:39:34 PM
Bromobenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Bromodichloromethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Bromoform	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Bromomethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
2-Butanone	ND	0.0109		mg/Kg	1	10/9/2012 8:39:34 PM
Carbon tetrachloride	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Chlorobenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Chloroethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (19-20')

Project: SWMU NO.1

Collection Date: 10/5/2012 11:25:00 AM

Lab ID: 1210372-005

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Chloromethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
2-Chlorotoluene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Carbon disulfide	ND	0.0109		mg/Kg	1	10/9/2012 8:39:34 PM
4-Chlorotoluene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
cis-1,2-DCE	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
cis-1,3-Dichloropropene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,2-Dibromo-3-chloropropane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Dibromochloromethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Dibromomethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,2-Dichlorobenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,3-Dichlorobenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,4-Dichlorobenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Dichlorodifluoromethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,1-Dichloroethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,1-Dichloroethene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,2-Dichloropropane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,3-Dichloropropane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
2,2-Dichloropropane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,1-Dichloropropene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Hexachlorobutadiene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Isopropylbenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
4-Isopropyltoluene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Methylene chloride	ND	0.00326		mg/Kg	1	10/9/2012 8:39:34 PM
n-Butylbenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
2-Hexanone	ND	0.0109		mg/Kg	1	10/9/2012 8:39:34 PM
n-Propylbenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
sec-Butylbenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Styrene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
4-Methyl-2-pentanone	ND	0.0109		mg/Kg	1	10/9/2012 8:39:34 PM
tert-Butylbenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,1,1,2-Tetrachloroethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,1,2,2-Tetrachloroethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Tetrachloroethene (PCE)	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
trans-1,2-DCE	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
trans-1,3-Dichloropropene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,2,3-Trichlorobenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,2,4-Trichlorobenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,1,1-Trichloroethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,1,2-Trichloroethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Trichloroethene (TCE)	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Trichlorofluoromethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (19-20')

Project: SWMU NO.1

Collection Date: 10/5/2012 11:25:00 AM

Lab ID: 1210372-005

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Vinyl chloride	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Surr: 1,2-Dichloroethane-d4	89.0	70-130		%REC	1	10/9/2012 8:39:34 PM
Surr: 4-Bromofluorobenzene	115	70-130		%REC	1	10/9/2012 8:39:34 PM
Surr: Dibromofluoromethane	99.5	70-130		%REC	1	10/9/2012 8:39:34 PM
Surr: Toluene-d8	88.4	70-130		%REC	1	10/9/2012 8:39:34 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (4-6")

Project: SWMU NO.1

Collection Date: 10/5/2012 10:20:00 AM

Lab ID: 1210372-006

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/9/2012 10:32:04 AM
Motor Oil Range Organics (MRO)	ND	52		mg/Kg	1	10/9/2012 10:32:04 AM
Surr: DNOP	103	77.6-140		%REC	1	10/9/2012 10:32:04 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/10/2012 6:37:17 PM
Surr: BFB	108	84-116		%REC	1	10/10/2012 6:37:17 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/11/2012 3:26:55 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 4:05:56 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 4:05:56 PM
Barium	540	5.0		mg/Kg	50	10/11/2012 4:10:00 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 4:05:56 PM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 4:05:56 PM
Chromium	5.3	1.5		mg/Kg	5	10/11/2012 4:05:56 PM
Cobalt	3.0	1.5		mg/Kg	5	10/11/2012 4:05:56 PM
Iron	7900	500		mg/Kg	500	10/11/2012 4:15:16 PM
Lead	3.4	1.2		mg/Kg	5	10/11/2012 4:05:56 PM
Manganese	390	5.0		mg/Kg	50	10/11/2012 4:10:00 PM
Nickel	4.5	2.5		mg/Kg	5	10/11/2012 4:05:56 PM
Selenium	ND	12		mg/Kg	5	10/11/2012 4:05:56 PM
Silver	ND	1.2		mg/Kg	5	10/11/2012 4:05:56 PM
Vanadium	19	12		mg/Kg	5	10/11/2012 4:05:56 PM
Zinc	ND	12		mg/Kg	5	10/11/2012 4:05:56 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Benzoic acid	ND	0.50		mg/Kg	1	10/10/2012 5:01:17 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (4-6")

Project: SWMU NO.1

Collection Date: 10/5/2012 10:20:00 AM

Lab ID: 1210372-006

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/10/2012 5:01:17 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 5:01:17 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/10/2012 5:01:17 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 5:01:17 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/10/2012 5:01:17 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 5:01:17 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 5:01:17 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 5:01:17 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 5:01:17 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 5:01:17 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 5:01:17 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 5:01:17 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 5:01:17 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Fluorene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Isophorone	ND	0.50		mg/Kg	1	10/10/2012 5:01:17 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
2-Methylphenol	ND	0.50		mg/Kg	1	10/10/2012 5:01:17 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Naphthalene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (4-6")

Project: SWMU NO.1

Collection Date: 10/5/2012 10:20:00 AM

Lab ID: 1210372-006

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 5:01:17 AM
Nitrobenzene	ND	0.50		mg/Kg	1	10/10/2012 5:01:17 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 5:01:17 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 5:01:17 AM
Phenanthrene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Pyridine	ND	0.50		mg/Kg	1	10/10/2012 5:01:17 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Surr: 2,4,6-Tribromophenol	97.6	21.3-145		%REC	1	10/10/2012 5:01:17 AM
Surr: 2-Fluorobiphenyl	91.8	20-131		%REC	1	10/10/2012 5:01:17 AM
Surr: 2-Fluorophenol	87.8	11.9-130		%REC	1	10/10/2012 5:01:17 AM
Surr: 4-Terphenyl-d14	79.3	25.1-149		%REC	1	10/10/2012 5:01:17 AM
Surr: Nitrobenzene-d5	93.8	25.6-137		%REC	1	10/10/2012 5:01:17 AM
Surr: Phenol-d5	94.4	20.3-132		%REC	1	10/10/2012 5:01:17 AM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	0.00240	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Toluene	0.00218	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Ethylbenzene	0.00249	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Xylenes, Total	0.0128	0.00162		mg/Kg	1	10/9/2012 9:10:16 PM
Methyl tert-butyl ether (MTBE)	0.00810	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,2,4-Trimethylbenzene	0.0102	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,3,5-Trimethylbenzene	0.00249	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,2-Dichloroethane (EDC)	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,2-Dibromoethane (EDB)	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Naphthalene	0.0113	0.00162		mg/Kg	1	10/9/2012 9:10:16 PM
1-Methylnaphthalene	0.0164	0.00325		mg/Kg	1	10/9/2012 9:10:16 PM
2-Methylnaphthalene	0.0168	0.00325		mg/Kg	1	10/9/2012 9:10:16 PM
Acetone	0.114	0.00812		mg/Kg	1	10/9/2012 9:10:16 PM
Bromobenzene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Bromodichloromethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Bromoform	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Bromomethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
2-Butanone	0.0177	0.00812		mg/Kg	1	10/9/2012 9:10:16 PM
Carbon tetrachloride	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Chlorobenzene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Chloroethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
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- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (4-6")

Project: SWMU NO.1

Collection Date: 10/5/2012 10:20:00 AM

Lab ID: 1210372-006

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Chloromethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
2-Chlorotoluene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Carbon disulfide	ND	0.00812		mg/Kg	1	10/9/2012 9:10:16 PM
4-Chlorotoluene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
cis-1,2-DCE	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
cis-1,3-Dichloropropene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,2-Dibromo-3-chloropropane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Dibromochloromethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Dibromomethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,2-Dichlorobenzene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,3-Dichlorobenzene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,4-Dichlorobenzene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Dichlorodifluoromethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,1-Dichloroethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,1-Dichloroethene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,2-Dichloropropane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,3-Dichloropropane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
2,2-Dichloropropane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,1-Dichloropropene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Hexachlorobutadiene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Isopropylbenzene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
4-Isopropyltoluene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Methylene chloride	ND	0.00244		mg/Kg	1	10/9/2012 9:10:16 PM
n-Butylbenzene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
2-Hexanone	ND	0.00812		mg/Kg	1	10/9/2012 9:10:16 PM
n-Propylbenzene	0.00136	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
sec-Butylbenzene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Styrene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
4-Methyl-2-pentanone	ND	0.00812		mg/Kg	1	10/9/2012 9:10:16 PM
tert-Butylbenzene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,1,1,2-Tetrachloroethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,1,2,2-Tetrachloroethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Tetrachloroethene (PCE)	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
trans-1,2-DCE	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
trans-1,3-Dichloropropene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,2,3-Trichlorobenzene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,2,4-Trichlorobenzene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,1,1-Trichloroethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,1,2-Trichloroethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Trichloroethene (TCE)	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Trichlorofluoromethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (4-6')

Project: SWMU NO.1

Collection Date: 10/5/2012 10:20:00 AM

Lab ID: 1210372-006

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Vinyl chloride	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Surr: 1,2-Dichloroethane-d4	99.2	70-130		%REC	1	10/9/2012 9:10:16 PM
Surr: 4-Bromofluorobenzene	113	70-130		%REC	1	10/9/2012 9:10:16 PM
Surr: Dibromofluoromethane	105	70-130		%REC	1	10/9/2012 9:10:16 PM
Surr: Toluene-d8	89.2	70-130		%REC	1	10/9/2012 9:10:16 PM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (10-12')

Project: SWMU NO.1

Collection Date: 10/5/2012 10:30:00 AM

Lab ID: 1210372-007

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	100	10		mg/Kg	1	10/9/2012 1:49:44 PM
Motor Oil Range Organics (MRO)	280	51		mg/Kg	1	10/9/2012 1:49:44 PM
Surr: DNOP	122	77.6-140		%REC	1	10/9/2012 1:49:44 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/9/2012 12:24:53 AM
Surr: BFB	103	84-116		%REC	1	10/9/2012 12:24:53 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	0.16	0.033		mg/kg	1	10/11/2012 3:28:43 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 4:18:09 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 4:18:09 PM
Barium	620	5.0		mg/Kg	50	10/11/2012 4:20:33 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 4:18:09 PM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 4:18:09 PM
Chromium	21	1.5		mg/Kg	5	10/11/2012 4:18:09 PM
Cobalt	6.6	1.5		mg/Kg	5	10/11/2012 4:18:09 PM
Iron	15000	500		mg/Kg	500	10/11/2012 4:22:59 PM
Lead	8.2	1.2		mg/Kg	5	10/11/2012 4:18:09 PM
Manganese	810	5.0		mg/Kg	50	10/11/2012 4:20:33 PM
Nickel	16	2.5		mg/Kg	5	10/11/2012 4:18:09 PM
Selenium	ND	12		mg/Kg	5	10/11/2012 4:18:09 PM
Silver	ND	1.2		mg/Kg	5	10/11/2012 4:18:09 PM
Vanadium	26	12		mg/Kg	5	10/11/2012 4:18:09 PM
Zinc	60	12		mg/Kg	5	10/11/2012 4:18:09 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Acenaphthylene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Aniline	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Anthracene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Azobenzene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Benz(a)anthracene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Benzo(a)pyrene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Benzo(b)fluoranthene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Benzo(g,h,i)perylene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Benzo(k)fluoranthene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Benzoic acid	ND	2.5		mg/Kg	1	10/10/2012 1:40:56 PM
Benzyl alcohol	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Bis(2-chloroethoxy)methane	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Bis(2-chloroethyl)ether	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Bis(2-chloroisopropyl)ether	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (10-12')

Project: SWMU NO.1

Collection Date: 10/5/2012 10:30:00 AM

Lab ID: 1210372-007

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	2.5		mg/Kg	1	10/10/2012 1:40:56 PM
4-Bromophenyl phenyl ether	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Butyl benzyl phthalate	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Carbazole	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
4-Chloro-3-methylphenol	ND	2.5		mg/Kg	1	10/10/2012 1:40:56 PM
4-Chloroaniline	ND	2.5		mg/Kg	1	10/10/2012 1:40:56 PM
2-Chloronaphthalene	ND	1.3		mg/Kg	1	10/10/2012 1:40:56 PM
2-Chlorophenol	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
4-Chlorophenyl phenyl ether	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Chrysene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Di-n-butyl phthalate	ND	2.5		mg/Kg	1	10/10/2012 1:40:56 PM
Di-n-octyl phthalate	ND	1.3		mg/Kg	1	10/10/2012 1:40:56 PM
Dibenz(a,h)anthracene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Dibenzofuran	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
1,2-Dichlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
1,3-Dichlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
1,4-Dichlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
3,3'-Dichlorobenzidine	ND	1.3		mg/Kg	1	10/10/2012 1:40:56 PM
Diethyl phthalate	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Dimethyl phthalate	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
2,4-Dichlorophenol	ND	2.0		mg/Kg	1	10/10/2012 1:40:56 PM
2,4-Dimethylphenol	ND	1.5		mg/Kg	1	10/10/2012 1:40:56 PM
4,6-Dinitro-2-methylphenol	ND	2.5		mg/Kg	1	10/10/2012 1:40:56 PM
2,4-Dinitrophenol	ND	2.0		mg/Kg	1	10/10/2012 1:40:56 PM
2,4-Dinitrotoluene	ND	2.5		mg/Kg	1	10/10/2012 1:40:56 PM
2,6-Dinitrotoluene	ND	2.5		mg/Kg	1	10/10/2012 1:40:56 PM
Fluoranthene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Fluorene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Hexachlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Hexachlorobutadiene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Hexachlorocyclopentadiene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Hexachloroethane	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Indeno(1,2,3-cd)pyrene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Isophorone	ND	2.5		mg/Kg	1	10/10/2012 1:40:56 PM
1-Methylnaphthalene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
2-Methylnaphthalene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
2-Methylphenol	ND	2.5		mg/Kg	1	10/10/2012 1:40:56 PM
3+4-Methylphenol	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
N-Nitrosodi-n-propylamine	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
N-Nitrosodiphenylamine	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Naphthalene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
2-Nitroaniline	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (10-12')

Project: SWMU NO.1

Collection Date: 10/5/2012 10:30:00 AM

Lab ID: 1210372-007

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
4-Nitroaniline	ND	2.0		mg/Kg	1	10/10/2012 1:40:56 PM
Nitrobenzene	ND	2.5		mg/Kg	1	10/10/2012 1:40:56 PM
2-Nitrophenol	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
4-Nitrophenol	ND	1.3		mg/Kg	1	10/10/2012 1:40:56 PM
Pentachlorophenol	ND	2.0		mg/Kg	1	10/10/2012 1:40:56 PM
Phenanthrene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Phenol	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Pyrene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Pyridine	ND	2.5		mg/Kg	1	10/10/2012 1:40:56 PM
1,2,4-Trichlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
2,4,5-Trichlorophenol	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
2,4,6-Trichlorophenol	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Surr: 2,4,6-Tribromophenol	120	21.3-145		%REC	1	10/10/2012 1:40:56 PM
Surr: 2-Fluorobiphenyl	102	20-131		%REC	1	10/10/2012 1:40:56 PM
Surr: 2-Fluorophenol	112	11.9-130		%REC	1	10/10/2012 1:40:56 PM
Surr: 4-Terphenyl-d14	103	25.1-149		%REC	1	10/10/2012 1:40:56 PM
Surr: Nitrobenzene-d5	103	25.6-137		%REC	1	10/10/2012 1:40:56 PM
Surr: Phenol-d5	107	20.3-132		%REC	1	10/10/2012 1:40:56 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	0.00119	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Toluene	0.00426	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Ethylbenzene	0.00470	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Xylenes, Total	0.0262	0.00186		mg/Kg	1	10/9/2012 9:41:06 PM
Methyl tert-butyl ether (MTBE)	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,2,4-Trimethylbenzene	0.00358	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,3,5-Trimethylbenzene	0.000978	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,2-Dichloroethane (EDC)	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,2-Dibromoethane (EDB)	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Naphthalene	ND	0.00186		mg/Kg	1	10/9/2012 9:41:06 PM
1-Methylnaphthalene	ND	0.00372		mg/Kg	1	10/9/2012 9:41:06 PM
2-Methylnaphthalene	ND	0.00372		mg/Kg	1	10/9/2012 9:41:06 PM
Acetone	0.145	0.00931		mg/Kg	1	10/9/2012 9:41:06 PM
Bromobenzene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Bromodichloromethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Bromoform	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Bromomethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
2-Butanone	ND	0.00931		mg/Kg	1	10/9/2012 9:41:06 PM
Carbon tetrachloride	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Chlorobenzene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Chloroethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM

Qualifiers:

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- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (10-12')

Project: SWMU NO.1

Collection Date: 10/5/2012 10:30:00 AM

Lab ID: 1210372-007

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Chloromethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
2-Chlorotoluene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Carbon disulfide	ND	0.00931		mg/Kg	1	10/9/2012 9:41:06 PM
4-Chlorotoluene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
cis-1,2-DCE	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
cis-1,3-Dichloropropene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,2-Dibromo-3-chloropropane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Dibromochloromethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Dibromomethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,2-Dichlorobenzene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,3-Dichlorobenzene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,4-Dichlorobenzene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Dichlorodifluoromethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,1-Dichloroethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,1-Dichloroethene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,2-Dichloropropane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,3-Dichloropropane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
2,2-Dichloropropane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,1-Dichloropropene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Hexachlorobutadiene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Isopropylbenzene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
4-Isopropyltoluene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Methylene chloride	ND	0.00279		mg/Kg	1	10/9/2012 9:41:06 PM
n-Butylbenzene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
2-Hexanone	ND	0.00931		mg/Kg	1	10/9/2012 9:41:06 PM
n-Propylbenzene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
sec-Butylbenzene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Styrene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
4-Methyl-2-pentanone	ND	0.00931		mg/Kg	1	10/9/2012 9:41:06 PM
tert-Butylbenzene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,1,1,2-Tetrachloroethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,1,2,2-Tetrachloroethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Tetrachloroethene (PCE)	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
trans-1,2-DCE	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
trans-1,3-Dichloropropene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,2,3-Trichlorobenzene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,2,4-Trichlorobenzene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,1,1-Trichloroethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,1,2-Trichloroethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Trichloroethene (TCE)	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Trichlorofluoromethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (10-12')

Project: SWMU NO.1

Collection Date: 10/5/2012 10:30:00 AM

Lab ID: 1210372-007

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Vinyl chloride	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Surr: 1,2-Dichloroethane-d4	97.6	70-130		%REC	1	10/9/2012 9:41:06 PM
Surr: 4-Bromofluorobenzene	114	70-130		%REC	1	10/9/2012 9:41:06 PM
Surr: Dibromofluoromethane	104	70-130		%REC	1	10/9/2012 9:41:06 PM
Surr: Toluene-d8	123	70-130		%REC	1	10/9/2012 9:41:06 PM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (12-14')

Project: SWMU NO.1

Collection Date: 10/5/2012 10:40:00 AM

Lab ID: 1210372-008

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	53	9.9		mg/Kg	1	10/9/2012 1:04:41 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/9/2012 1:04:41 PM
Surr: DNOP	103	77.6-140		%REC	1	10/9/2012 1:04:41 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/10/2012 7:06:08 PM
Surr: BFB	140	84-116	S	%REC	1	10/10/2012 7:06:08 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	0.044	0.033		mg/kg	1	10/11/2012 3:30:31 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 4:25:38 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 4:25:38 PM
Barium	370	5.0		mg/Kg	50	10/11/2012 4:28:05 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 4:25:38 PM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 4:25:38 PM
Chromium	10	1.5		mg/Kg	5	10/11/2012 4:25:38 PM
Cobalt	4.1	1.5		mg/Kg	5	10/11/2012 4:25:38 PM
Iron	8000	500		mg/Kg	500	10/11/2012 4:30:34 PM
Lead	2.0	1.2		mg/Kg	5	10/11/2012 4:25:38 PM
Manganese	540	5.0		mg/Kg	50	10/11/2012 4:28:05 PM
Nickel	6.8	2.5		mg/Kg	5	10/11/2012 4:25:38 PM
Selenium	ND	12		mg/Kg	5	10/11/2012 4:25:38 PM
Silver	ND	1.2		mg/Kg	5	10/11/2012 4:25:38 PM
Vanadium	15	12		mg/Kg	5	10/11/2012 4:25:38 PM
Zinc	18	12		mg/Kg	5	10/11/2012 4:25:38 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Acenaphthylene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Aniline	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Anthracene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Azobenzene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Benz(a)anthracene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Benzo(a)pyrene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Benzo(b)fluoranthene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Benzo(g,h,i)perylene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Benzo(k)fluoranthene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Benzoic acid	ND	2.5		mg/Kg	1	10/10/2012 2:10:57 PM
Benzyl alcohol	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Bis(2-chloroethoxy)methane	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Bis(2-chloroethyl)ether	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Bis(2-chloroisopropyl)ether	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM

Qualifiers:

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- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (12-14')

Project: SWMU NO.1

Collection Date: 10/5/2012 10:40:00 AM

Lab ID: 1210372-008

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	2.5		mg/Kg	1	10/10/2012 2:10:57 PM
4-Bromophenyl phenyl ether	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Butyl benzyl phthalate	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Carbazole	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
4-Chloro-3-methylphenol	ND	2.5		mg/Kg	1	10/10/2012 2:10:57 PM
4-Chloroaniline	ND	2.5		mg/Kg	1	10/10/2012 2:10:57 PM
2-Chloronaphthalene	ND	1.3		mg/Kg	1	10/10/2012 2:10:57 PM
2-Chlorophenol	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
4-Chlorophenyl phenyl ether	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Chrysene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Di-n-butyl phthalate	ND	2.5		mg/Kg	1	10/10/2012 2:10:57 PM
Di-n-octyl phthalate	ND	1.3		mg/Kg	1	10/10/2012 2:10:57 PM
Dibenz(a,h)anthracene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Dibenzofuran	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
1,2-Dichlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
1,3-Dichlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
1,4-Dichlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
3,3'-Dichlorobenzidine	ND	1.3		mg/Kg	1	10/10/2012 2:10:57 PM
Diethyl phthalate	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Dimethyl phthalate	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
2,4-Dichlorophenol	ND	2.0		mg/Kg	1	10/10/2012 2:10:57 PM
2,4-Dimethylphenol	ND	1.5		mg/Kg	1	10/10/2012 2:10:57 PM
4,6-Dinitro-2-methylphenol	ND	2.5		mg/Kg	1	10/10/2012 2:10:57 PM
2,4-Dinitrophenol	ND	2.0		mg/Kg	1	10/10/2012 2:10:57 PM
2,4-Dinitrotoluene	ND	2.5		mg/Kg	1	10/10/2012 2:10:57 PM
2,6-Dinitrotoluene	ND	2.5		mg/Kg	1	10/10/2012 2:10:57 PM
Fluoranthene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Fluorene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Hexachlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Hexachlorobutadiene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Hexachlorocyclopentadiene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Hexachloroethane	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Indeno(1,2,3-cd)pyrene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Isophorone	ND	2.5		mg/Kg	1	10/10/2012 2:10:57 PM
1-Methylnaphthalene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
2-Methylnaphthalene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
2-Methylphenol	ND	2.5		mg/Kg	1	10/10/2012 2:10:57 PM
3+4-Methylphenol	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
N-Nitrosodi-n-propylamine	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
N-Nitrosodiphenylamine	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Naphthalene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
2-Nitroaniline	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
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- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (12-14')

Project: SWMU NO.1

Collection Date: 10/5/2012 10:40:00 AM

Lab ID: 1210372-008

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
4-Nitroaniline	ND	2.0		mg/Kg	1	10/10/2012 2:10:57 PM
Nitrobenzene	ND	2.5		mg/Kg	1	10/10/2012 2:10:57 PM
2-Nitrophenol	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
4-Nitrophenol	ND	1.3		mg/Kg	1	10/10/2012 2:10:57 PM
Pentachlorophenol	ND	2.0		mg/Kg	1	10/10/2012 2:10:57 PM
Phenanthrene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Phenol	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Pyrene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Pyridine	ND	2.5		mg/Kg	1	10/10/2012 2:10:57 PM
1,2,4-Trichlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
2,4,5-Trichlorophenol	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
2,4,6-Trichlorophenol	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Surr: 2,4,6-Tribromophenol	101	21.3-145		%REC	1	10/10/2012 2:10:57 PM
Surr: 2-Fluorobiphenyl	85.7	20-131		%REC	1	10/10/2012 2:10:57 PM
Surr: 2-Fluorophenol	91.5	11.9-130		%REC	1	10/10/2012 2:10:57 PM
Surr: 4-Terphenyl-d14	82.4	25.1-149		%REC	1	10/10/2012 2:10:57 PM
Surr: Nitrobenzene-d5	84.9	25.6-137		%REC	1	10/10/2012 2:10:57 PM
Surr: Phenol-d5	97.2	20.3-132		%REC	1	10/10/2012 2:10:57 PM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Toluene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Naphthalene	ND	0.10		mg/Kg	1	10/16/2012 1:00:38 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/16/2012 1:00:38 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/16/2012 1:00:38 AM
Acetone	ND	0.75		mg/Kg	1	10/16/2012 1:00:38 AM
Bromobenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Bromoform	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Bromomethane	ND	0.15		mg/Kg	1	10/16/2012 1:00:38 AM
2-Butanone	ND	0.50		mg/Kg	1	10/16/2012 1:00:38 AM
Carbon disulfide	ND	0.50		mg/Kg	1	10/16/2012 1:00:38 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	10/16/2012 1:00:38 AM
Chlorobenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Chloroethane	ND	0.10		mg/Kg	1	10/16/2012 1:00:38 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (12-14')

Project: SWMU NO.1

Collection Date: 10/5/2012 10:40:00 AM

Lab ID: 1210372-008

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Chloroform	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Chloromethane	ND	0.15		mg/Kg	1	10/16/2012 1:00:38 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	10/16/2012 1:00:38 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Dibromomethane	ND	0.10		mg/Kg	1	10/16/2012 1:00:38 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	10/16/2012 1:00:38 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	10/16/2012 1:00:38 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	10/16/2012 1:00:38 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	10/16/2012 1:00:38 AM
2-Hexanone	ND	0.50		mg/Kg	1	10/16/2012 1:00:38 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	10/16/2012 1:00:38 AM
Methylene chloride	ND	0.15		mg/Kg	1	10/16/2012 1:00:38 AM
n-Butylbenzene	ND	0.15		mg/Kg	1	10/16/2012 1:00:38 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Styrene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	10/16/2012 1:00:38 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	10/16/2012 1:00:38 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (12-14')

Project: SWMU NO.1

Collection Date: 10/5/2012 10:40:00 AM

Lab ID: 1210372-008

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Vinyl chloride	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Xylenes, Total	ND	0.10		mg/Kg	1	10/16/2012 1:00:38 AM
Surr: 1,2-Dichloroethane-d4	94.6	70-130		%REC	1	10/16/2012 1:00:38 AM
Surr: 4-Bromofluorobenzene	74.4	70-130		%REC	1	10/16/2012 1:00:38 AM
Surr: Dibromofluoromethane	92.3	70-130		%REC	1	10/16/2012 1:00:38 AM
Surr: Toluene-d8	100	70-130		%REC	1	10/16/2012 1:00:38 AM

Qualifiers:

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J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (16-18')

Project: SWMU NO.1

Collection Date: 10/5/2012 11:10:00 AM

Lab ID: 1210372-009

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/9/2012 10:53:40 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/9/2012 10:53:40 AM
Surr: DNOP	93.9	77.6-140		%REC	1	10/9/2012 10:53:40 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/11/2012 12:22:40 AM
Surr: BFB	105	84-116		%REC	1	10/11/2012 12:22:40 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/11/2012 3:32:16 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 4:33:26 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 4:33:26 PM
Barium	550	5.0		mg/Kg	50	10/11/2012 4:43:28 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 4:33:26 PM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 4:33:26 PM
Chromium	6.9	1.5		mg/Kg	5	10/11/2012 4:33:26 PM
Cobalt	4.4	1.5		mg/Kg	5	10/11/2012 4:33:26 PM
Iron	11000	500		mg/Kg	500	10/11/2012 4:45:54 PM
Lead	2.8	1.2		mg/Kg	5	10/11/2012 4:33:26 PM
Manganese	740	5.0		mg/Kg	50	10/11/2012 4:43:28 PM
Nickel	6.1	2.5		mg/Kg	5	10/11/2012 4:33:26 PM
Selenium	ND	12		mg/Kg	5	10/11/2012 4:33:26 PM
Silver	ND	1.2		mg/Kg	5	10/11/2012 4:33:26 PM
Vanadium	16	12		mg/Kg	5	10/11/2012 4:33:26 PM
Zinc	14	12		mg/Kg	5	10/11/2012 4:33:26 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Benzoic acid	ND	0.50		mg/Kg	1	10/10/2012 5:30:21 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM

Qualifiers:

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- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (16-18')

Project: SWMU NO.1

Collection Date: 10/5/2012 11:10:00 AM

Lab ID: 1210372-009

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/10/2012 5:30:21 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 5:30:21 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/10/2012 5:30:21 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 5:30:21 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/10/2012 5:30:21 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 5:30:21 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 5:30:21 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 5:30:21 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 5:30:21 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 5:30:21 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 5:30:21 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 5:30:21 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 5:30:21 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Fluorene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Isophorone	ND	0.50		mg/Kg	1	10/10/2012 5:30:21 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
2-Methylphenol	ND	0.50		mg/Kg	1	10/10/2012 5:30:21 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Naphthalene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (16-18')

Project: SWMU NO.1

Collection Date: 10/5/2012 11:10:00 AM

Lab ID: 1210372-009

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 5:30:21 AM
Nitrobenzene	ND	0.50		mg/Kg	1	10/10/2012 5:30:21 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 5:30:21 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 5:30:21 AM
Phenanthrene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Pyridine	ND	0.50		mg/Kg	1	10/10/2012 5:30:21 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Surr: 2,4,6-Tribromophenol	90.6	21.3-145		%REC	1	10/10/2012 5:30:21 AM
Surr: 2-Fluorobiphenyl	73.0	20-131		%REC	1	10/10/2012 5:30:21 AM
Surr: 2-Fluorophenol	85.9	11.9-130		%REC	1	10/10/2012 5:30:21 AM
Surr: 4-Terphenyl-d14	69.8	25.1-149		%REC	1	10/10/2012 5:30:21 AM
Surr: Nitrobenzene-d5	76.0	25.6-137		%REC	1	10/10/2012 5:30:21 AM
Surr: Phenol-d5	81.7	20.3-132		%REC	1	10/10/2012 5:30:21 AM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Toluene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Ethylbenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Xylenes, Total	ND	0.00222		mg/Kg	1	10/10/2012 3:08:16 PM
Methyl tert-butyl ether (MTBE)	0.0241	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,2,4-Trimethylbenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,3,5-Trimethylbenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,2-Dichloroethane (EDC)	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,2-Dibromoethane (EDB)	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Naphthalene	ND	0.00222		mg/Kg	1	10/10/2012 3:08:16 PM
1-Methylnaphthalene	ND	0.00443		mg/Kg	1	10/10/2012 3:08:16 PM
2-Methylnaphthalene	ND	0.00443		mg/Kg	1	10/10/2012 3:08:16 PM
Acetone	0.0364	0.0111		mg/Kg	1	10/10/2012 3:08:16 PM
Bromobenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Bromodichloromethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Bromoform	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Bromomethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
2-Butanone	ND	0.0111		mg/Kg	1	10/10/2012 3:08:16 PM
Carbon tetrachloride	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Chlorobenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Chloroethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (16-18')

Project: SWMU NO.1

Collection Date: 10/5/2012 11:10:00 AM

Lab ID: 1210372-009

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Chloromethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
2-Chlorotoluene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Carbon disulfide	ND	0.0111		mg/Kg	1	10/10/2012 3:08:16 PM
4-Chlorotoluene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
cis-1,2-DCE	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
cis-1,3-Dichloropropene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,2-Dibromo-3-chloropropane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Dibromochloromethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Dibromomethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,2-Dichlorobenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,3-Dichlorobenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,4-Dichlorobenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Dichlorodifluoromethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,1-Dichloroethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,1-Dichloroethene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,2-Dichloropropane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,3-Dichloropropane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
2,2-Dichloropropane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,1-Dichloropropene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Hexachlorobutadiene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Isopropylbenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
4-Isopropyltoluene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Methylene chloride	ND	0.00332		mg/Kg	1	10/10/2012 3:08:16 PM
n-Butylbenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
2-Hexanone	ND	0.0111		mg/Kg	1	10/10/2012 3:08:16 PM
n-Propylbenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
sec-Butylbenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Styrene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
4-Methyl-2-pentanone	ND	0.0111		mg/Kg	1	10/10/2012 3:08:16 PM
tert-Butylbenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,1,1,2-Tetrachloroethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,1,2,2-Tetrachloroethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Tetrachloroethene (PCE)	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
trans-1,2-DCE	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
trans-1,3-Dichloropropene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,2,3-Trichlorobenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,2,4-Trichlorobenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,1,1-Trichloroethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,1,2-Trichloroethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Trichloroethene (TCE)	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Trichlorofluoromethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (16-18')

Project: SWMU NO.1

Collection Date: 10/5/2012 11:10:00 AM

Lab ID: 1210372-009

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Vinyl chloride	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Surr: 1,2-Dichloroethane-d4	94.8	70-130		%REC	1	10/10/2012 3:08:16 PM
Surr: 4-Bromofluorobenzene	91.7	70-130		%REC	1	10/10/2012 3:08:16 PM
Surr: Dibromofluoromethane	101	70-130		%REC	1	10/10/2012 3:08:16 PM
Surr: Toluene-d8	88.8	70-130		%REC	1	10/10/2012 3:08:16 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100512

Project: SWMU NO.1

Collection Date: 10/5/2012 5:40:00 PM

Lab ID: 1210372-010

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/8/2012 5:48:01 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/8/2012 5:48:01 PM
Surr: DNOP	120	79.5-166		%REC	1	10/8/2012 5:48:01 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/10/2012 5:46:36 PM
Surr: BFB	118	69.8-119		%REC	1	10/10/2012 5:46:36 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Fluoride	ND	0.10		mg/L	1	10/11/2012 3:10:22 AM
Chloride	ND	0.50		mg/L	1	10/8/2012 8:16:41 PM
Sulfate	ND	0.50		mg/L	1	10/8/2012 8:16:41 PM
EPA METHOD 200.7: METALS						Analyst: JLF
Barium	ND	0.0020		mg/L	1	10/10/2012 9:35:20 PM
Beryllium	ND	0.0020		mg/L	1	10/10/2012 9:35:20 PM
Cadmium	ND	0.0020		mg/L	1	10/10/2012 9:35:20 PM
Chromium	ND	0.0060		mg/L	1	10/10/2012 9:35:20 PM
Cobalt	ND	0.0060		mg/L	1	10/10/2012 9:35:20 PM
Iron	0.030	0.020		mg/L	1	10/10/2012 9:35:20 PM
Manganese	ND	0.0020		mg/L	1	10/10/2012 9:35:20 PM
Nickel	ND	0.010		mg/L	1	10/10/2012 9:35:20 PM
Silver	ND	0.0050		mg/L	1	10/10/2012 9:35:20 PM
Vanadium	ND	0.050		mg/L	1	10/10/2012 9:35:20 PM
Zinc	ND	0.010		mg/L	1	10/12/2012 8:02:27 AM
EPA 200.8: METALS						Analyst: DBD
Antimony	ND	0.0010		mg/L	1	10/17/2012 11:21:13 AM
Arsenic	ND	0.0010		mg/L	1	10/17/2012 11:21:13 AM
Lead	ND	0.0010		mg/L	1	10/17/2012 11:21:13 AM
Selenium	ND	0.0010		mg/L	1	10/17/2012 11:21:13 AM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	ND	0.00020		mg/L	1	10/12/2012 4:49:12 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Acenaphthylene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Aniline	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Anthracene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Azobenzene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Benz(a)anthracene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Benzo(a)pyrene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	10/11/2012 10:38:52 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100512

Project: SWMU NO.1

Collection Date: 10/5/2012 5:40:00 PM

Lab ID: 1210372-010

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(k)fluoranthene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Benzoic acid	ND	20		µg/L	1	10/11/2012 10:38:52 PM
Benzyl alcohol	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	10/11/2012 10:38:52 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Butyl benzyl phthalate	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Carbazole	ND	10		µg/L	1	10/11/2012 10:38:52 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	10/11/2012 10:38:52 PM
4-Chloroaniline	ND	10		µg/L	1	10/11/2012 10:38:52 PM
2-Chloronaphthalene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
2-Chlorophenol	ND	10		µg/L	1	10/11/2012 10:38:52 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Chrysene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Di-n-butyl phthalate	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Di-n-octyl phthalate	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Dibenzofuran	ND	10		µg/L	1	10/11/2012 10:38:52 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Diethyl phthalate	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Dimethyl phthalate	ND	10		µg/L	1	10/11/2012 10:38:52 PM
2,4-Dichlorophenol	ND	20		µg/L	1	10/11/2012 10:38:52 PM
2,4-Dimethylphenol	ND	10		µg/L	1	10/11/2012 10:38:52 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	10/11/2012 10:38:52 PM
2,4-Dinitrophenol	ND	20		µg/L	1	10/11/2012 10:38:52 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Fluoranthene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Fluorene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Hexachlorobenzene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Hexachlorobutadiene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Hexachloroethane	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Isophorone	ND	10		µg/L	1	10/11/2012 10:38:52 PM
1-Methylnaphthalene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
2-Methylnaphthalene	ND	10		µg/L	1	10/11/2012 10:38:52 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100512

Project: SWMU NO.1

Collection Date: 10/5/2012 5:40:00 PM

Lab ID: 1210372-010

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylphenol	ND	10		µg/L	1	10/11/2012 10:38:52 PM
3+4-Methylphenol	ND	10		µg/L	1	10/11/2012 10:38:52 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/11/2012 10:38:52 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	10/11/2012 10:38:52 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Naphthalene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
2-Nitroaniline	ND	10		µg/L	1	10/11/2012 10:38:52 PM
3-Nitroaniline	ND	10		µg/L	1	10/11/2012 10:38:52 PM
4-Nitroaniline	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Nitrobenzene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
2-Nitrophenol	ND	10		µg/L	1	10/11/2012 10:38:52 PM
4-Nitrophenol	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Pentachlorophenol	ND	20		µg/L	1	10/11/2012 10:38:52 PM
Phenanthrene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Phenol	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Pyrene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Pyridine	ND	10		µg/L	1	10/11/2012 10:38:52 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	10/11/2012 10:38:52 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Surr: 2,4,6-Tribromophenol	81.3	44.2-126		%REC	1	10/11/2012 10:38:52 PM
Surr: 2-Fluorobiphenyl	75.4	37-114		%REC	1	10/11/2012 10:38:52 PM
Surr: 2-Fluorophenol	61.0	23.4-98		%REC	1	10/11/2012 10:38:52 PM
Surr: 4-Terphenyl-d14	70.8	41.3-116		%REC	1	10/11/2012 10:38:52 PM
Surr: Nitrobenzene-d5	82.9	39.5-118		%REC	1	10/11/2012 10:38:52 PM
Surr: Phenol-d5	49.6	20.9-95.9		%REC	1	10/11/2012 10:38:52 PM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Toluene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Ethylbenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Naphthalene	ND	2.0		µg/L	1	10/9/2012 2:49:27 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/9/2012 2:49:27 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/9/2012 2:49:27 PM
Acetone	ND	10		µg/L	1	10/9/2012 2:49:27 PM
Bromobenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100512

Project: SWMU NO.1

Collection Date: 10/5/2012 5:40:00 PM

Lab ID: 1210372-010

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Bromoform	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Bromomethane	ND	3.0		µg/L	1	10/9/2012 2:49:27 PM
2-Butanone	ND	10		µg/L	1	10/9/2012 2:49:27 PM
Carbon disulfide	ND	10		µg/L	1	10/9/2012 2:49:27 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Chlorobenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Chloroethane	ND	2.0		µg/L	1	10/9/2012 2:49:27 PM
Chloroform	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Chloromethane	ND	3.0		µg/L	1	10/9/2012 2:49:27 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/9/2012 2:49:27 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Dibromomethane	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/9/2012 2:49:27 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
2-Hexanone	ND	10		µg/L	1	10/9/2012 2:49:27 PM
Isopropylbenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/9/2012 2:49:27 PM
Methylene Chloride	ND	3.0		µg/L	1	10/9/2012 2:49:27 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/9/2012 2:49:27 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Styrene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/9/2012 2:49:27 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100512

Project: SWMU NO.1

Collection Date: 10/5/2012 5:40:00 PM

Lab ID: 1210372-010

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/9/2012 2:49:27 PM
Vinyl chloride	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Xylenes, Total	ND	1.5		µg/L	1	10/9/2012 2:49:27 PM
Surr: 1,2-Dichloroethane-d4	93.2	70-130		%REC	1	10/9/2012 2:49:27 PM
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	10/9/2012 2:49:27 PM
Surr: Dibromofluoromethane	93.7	70-130		%REC	1	10/9/2012 2:49:27 PM
Surr: Toluene-d8	96.2	70-130		%REC	1	10/9/2012 2:49:27 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Trip Blank

Project: SWMU NO.1

Collection Date:

Lab ID: 1210372-011

Matrix: TRIP BLANK

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Toluene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Ethylbenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Naphthalene	ND	2.0		µg/L	1	10/9/2012 4:42:30 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/9/2012 4:42:30 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/9/2012 4:42:30 PM
Acetone	ND	10		µg/L	1	10/9/2012 4:42:30 PM
Bromobenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Bromoform	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Bromomethane	ND	3.0		µg/L	1	10/9/2012 4:42:30 PM
2-Butanone	ND	10		µg/L	1	10/9/2012 4:42:30 PM
Carbon disulfide	ND	10		µg/L	1	10/9/2012 4:42:30 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Chlorobenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Chloroethane	ND	2.0		µg/L	1	10/9/2012 4:42:30 PM
Chloroform	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Chloromethane	ND	3.0		µg/L	1	10/9/2012 4:42:30 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/9/2012 4:42:30 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Dibromomethane	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/9/2012 4:42:30 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
2-Hexanone	ND	10		µg/L	1	10/9/2012 4:42:30 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Trip Blank

Project: SWMU NO.1

Collection Date:

Lab ID: 1210372-011

Matrix: TRIP BLANK

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Isopropylbenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/9/2012 4:42:30 PM
Methylene Chloride	ND	3.0		µg/L	1	10/9/2012 4:42:30 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/9/2012 4:42:30 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Styrene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/9/2012 4:42:30 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/9/2012 4:42:30 PM
Vinyl chloride	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Xylenes, Total	ND	1.5		µg/L	1	10/9/2012 4:42:30 PM
Surr: 1,2-Dichloroethane-d4	93.7	70-130		%REC	1	10/9/2012 4:42:30 PM
Surr: 4-Bromofluorobenzene	97.4	70-130		%REC	1	10/9/2012 4:42:30 PM
Surr: Dibromofluoromethane	91.8	70-130		%REC	1	10/9/2012 4:42:30 PM
Surr: Toluene-d8	95.1	70-130		%REC	1	10/9/2012 4:42:30 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 GW

Project: SWMU NO.1

Collection Date: 10/5/2012 7:45:00 AM

Lab ID: 1210372-012

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	4.8	1.0	*	mg/L	10	10/17/2012 9:32:31 PM
Chloride	1900	50		mg/L	100	10/11/2012 10:02:24 PM
Sulfate	180	2.5		mg/L	5	10/8/2012 8:29:06 PM
EPA METHOD 200.7: METALS						Analyst: JLF
Barium	1.2	0.010		mg/L	5	10/10/2012 6:35:24 PM
Beryllium	ND	0.0020		mg/L	1	10/10/2012 6:31:32 PM
Cadmium	ND	0.0020		mg/L	1	10/10/2012 6:31:32 PM
Chromium	ND	0.0060		mg/L	1	10/10/2012 6:31:32 PM
Cobalt	0.011	0.0060		mg/L	1	10/10/2012 6:31:32 PM
Iron	0.32	0.020	*	mg/L	1	10/10/2012 6:31:32 PM
Manganese	0.99	0.0020	*	mg/L	1	10/10/2012 6:31:32 PM
Nickel	0.13	0.010	*	mg/L	1	10/10/2012 6:31:32 PM
Silver	ND	0.0050		mg/L	1	10/10/2012 6:31:32 PM
Vanadium	ND	0.050		mg/L	1	10/10/2012 6:31:32 PM
Zinc	0.047	0.010		mg/L	1	10/10/2012 6:31:32 PM
EPA 200.8: METALS						Analyst: DBD
Antimony	ND	0.0025		mg/L	2.5	10/15/2012 5:07:00 PM
Arsenic	0.016	0.0025	*	mg/L	2.5	10/15/2012 5:07:00 PM
Lead	ND	0.0025		mg/L	2.5	10/15/2012 5:07:00 PM
Selenium	0.0073	0.0025		mg/L	2.5	10/15/2012 5:07:00 PM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	ND	0.00020		mg/L	1	10/12/2012 4:51:01 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 GW

Project: SWMU NO.1

Collection Date: 10/5/2012 3:20:00 PM

Lab ID: 1210372-013

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/8/2012 6:13:37 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/8/2012 6:13:37 PM
Surr: DNOP	123	79.5-166		%REC	1	10/8/2012 6:13:37 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.26	0.10		mg/L	2	10/10/2012 6:16:46 PM
Surr: BFB	121	69.8-119	S	%REC	2	10/10/2012 6:16:46 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Acenaphthylene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Aniline	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Anthracene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Azobenzene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Benz(a)anthracene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Benzo(a)pyrene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Benzoic acid	ND	20		µg/L	1	10/11/2012 11:08:06 PM
Benzyl alcohol	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	10/11/2012 11:08:06 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Butyl benzyl phthalate	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Carbazole	ND	10		µg/L	1	10/11/2012 11:08:06 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	10/11/2012 11:08:06 PM
4-Chloroaniline	ND	10		µg/L	1	10/11/2012 11:08:06 PM
2-Chloronaphthalene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
2-Chlorophenol	ND	10		µg/L	1	10/11/2012 11:08:06 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Chrysene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Di-n-butyl phthalate	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Di-n-octyl phthalate	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Dibenzofuran	ND	10		µg/L	1	10/11/2012 11:08:06 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Diethyl phthalate	ND	10		µg/L	1	10/11/2012 11:08:06 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 GW

Project: SWMU NO.1

Collection Date: 10/5/2012 3:20:00 PM

Lab ID: 1210372-013

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Dimethyl phthalate	13	10		µg/L	1	10/11/2012 11:08:06 PM
2,4-Dichlorophenol	ND	20		µg/L	1	10/11/2012 11:08:06 PM
2,4-Dimethylphenol	ND	10		µg/L	1	10/11/2012 11:08:06 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	10/11/2012 11:08:06 PM
2,4-Dinitrophenol	ND	20		µg/L	1	10/11/2012 11:08:06 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Fluoranthene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Fluorene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Hexachlorobenzene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Hexachlorobutadiene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Hexachloroethane	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Isophorone	ND	10		µg/L	1	10/11/2012 11:08:06 PM
1-Methylnaphthalene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
2-Methylnaphthalene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
2-Methylphenol	ND	10		µg/L	1	10/11/2012 11:08:06 PM
3+4-Methylphenol	ND	10		µg/L	1	10/11/2012 11:08:06 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/11/2012 11:08:06 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	10/11/2012 11:08:06 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Naphthalene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
2-Nitroaniline	ND	10		µg/L	1	10/11/2012 11:08:06 PM
3-Nitroaniline	ND	10		µg/L	1	10/11/2012 11:08:06 PM
4-Nitroaniline	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Nitrobenzene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
2-Nitrophenol	ND	10		µg/L	1	10/11/2012 11:08:06 PM
4-Nitrophenol	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Pentachlorophenol	ND	20		µg/L	1	10/11/2012 11:08:06 PM
Phenanthrene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Phenol	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Pyrene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Pyridine	ND	10		µg/L	1	10/11/2012 11:08:06 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	10/11/2012 11:08:06 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Surr: 2,4,6-Tribromophenol	78.9	44.2-126		%REC	1	10/11/2012 11:08:06 PM
Surr: 2-Fluorobiphenyl	65.7	37-114		%REC	1	10/11/2012 11:08:06 PM
Surr: 2-Fluorophenol	46.7	23.4-98		%REC	1	10/11/2012 11:08:06 PM
Surr: 4-Terphenyl-d14	63.0	41.3-116		%REC	1	10/11/2012 11:08:06 PM
Surr: Nitrobenzene-d5	59.8	39.5-118		%REC	1	10/11/2012 11:08:06 PM

Qualifiers:

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- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 GW

Project: SWMU NO.1

Collection Date: 10/5/2012 3:20:00 PM

Lab ID: 1210372-013

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Surr: Phenol-d5	37.7	20.9-95.9		%REC	1	10/11/2012 11:08:06 PM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	4.5	2.0		µg/L	2	10/9/2012 5:10:44 PM
Toluene	7.2	2.0		µg/L	2	10/9/2012 5:10:44 PM
Ethylbenzene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,2-Dichloroethane (EDC)	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
Naphthalene	ND	4.0		µg/L	2	10/9/2012 5:10:44 PM
1-Methylnaphthalene	ND	8.0		µg/L	2	10/9/2012 5:10:44 PM
2-Methylnaphthalene	ND	8.0		µg/L	2	10/9/2012 5:10:44 PM
Acetone	49	20		µg/L	2	10/9/2012 5:10:44 PM
Bromobenzene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
Bromodichloromethane	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
Bromoform	2.7	2.0		µg/L	2	10/9/2012 5:10:44 PM
Bromomethane	ND	6.0		µg/L	2	10/9/2012 5:10:44 PM
2-Butanone	20	20		µg/L	2	10/9/2012 5:10:44 PM
Carbon disulfide	ND	20		µg/L	2	10/9/2012 5:10:44 PM
Carbon Tetrachloride	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
Chlorobenzene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
Chloroethane	ND	4.0		µg/L	2	10/9/2012 5:10:44 PM
Chloroform	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
Chloromethane	ND	6.0		µg/L	2	10/9/2012 5:10:44 PM
2-Chlorotoluene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
4-Chlorotoluene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
cis-1,2-DCE	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	10/9/2012 5:10:44 PM
Dibromochloromethane	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
Dibromomethane	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
Dichlorodifluoromethane	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,1-Dichloroethane	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,1-Dichloroethene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,2-Dichloropropane	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,3-Dichloropropane	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
2,2-Dichloropropane	ND	4.0		µg/L	2	10/9/2012 5:10:44 PM

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