

GW - 32

LANDFARMS

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, November 08, 2011 2:53 PM
To: 'Riege, Ed'
Cc: Johnson, Cheryl; Grant Price; VonGonten, Glenn, EMNRD; VanHorn, Kristen, NMENV
Subject: RE: NE OCD Landfarm Closure

Mr. Riege:

The OCD hereby approves the closure of the Temporary NE Landfarm and "Beneficial Reuse" of remediated soils therein for evaporation pond berm reinforcement.

Please contact me if you have questions. Thank you.

Please be advised that NMOCD approval of this plan does not relieve Western Refining Southwest, Inc. of responsibility should their operations pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve Western Refining Southwest, Inc. of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
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Website: <http://www.emnrd.state.nm.us/ocd/>

"Why not Prevent Pollution; Minimize Waste; Reduce the Cost of Operations; & Move Forward with the Rest of the Nation?" To see how, go to "Pollution Prevention & Waste Minimization" at:
<http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental>)

From: Riege, Ed [<mailto:Ed.Riege@wnr.com>]
Sent: Monday, November 07, 2011 3:51 PM
To: Chavez, Carl J, EMNRD
Cc: Johnson, Cheryl; Grant Price
Subject: FW: NE OCD Landfarm Closure

Hi Carl,

The lab report for the NE Landfarm closure sample, along with a summary table comparing the NE Landfarm closure data to the baseline and ABRSCs, are attached. In the lab report, the closure sample ID is "NEOCD Closure 110210". Note that there are other analytical data in the lab report that are not applicable to this submittal.

The summary table, Table 1, compares the NEOCD closure sample to 1) the baseline concentrations, 2) the ABRSCs, and 3) there is a third column to show whether both the baseline AND the ABRSC was exceeded for each analyte. Note that the only ABRSC exceedances were caused by elevated PQLs in the NEOCD closure sample due to sample dilution; these analytes were non-detect, but the PQL in the closure sample was higher than the ABRSC. Also note that, for these analytes, the baseline concentration was not exceeded. There were no analytes that exceeded both the baseline and the ABRSC.

Please feel free to call if you have any questions or if you would like us to mail you a hardcopy of the table and/or lab report.

Thanks,

Ed Riege
Environmental Manager

Western Refining
Gallup Refinery
Route 3 Box 7
Gallup, NM 87301
(505) 722-0217
ed.riege@wnr.com

Chavez, Carl J, EMNRD

From: Riege, Ed [Ed.Riege@wnr.com]
Sent: Monday, November 07, 2011 3:51 PM
To: Chavez, Carl J, EMNRD
Cc: Johnson, Cheryl; Grant Price
Subject: FW: NE OCD Landfarm Closure
Attachments: 201111_LabDataOCD-LandfarmSemiannClosure5-Year-1011126_ATT-A1.pdf; 201111_110711-NE-ClosureTable1Revised_ATT-B.pdf

Hi Carl,

The lab report for the NE Landfarm closure sample, along with a summary table comparing the NE Landfarm closure data to the baseline and ABRSCs, are attached. In the lab report, the closure sample ID is "NEOCD Closure 110210". Note that there are other analytical data in the lab report that are not applicable to this submittal.

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Please feel free to call if you have any questions or if you would like us to mail you a hardcopy of the table and/or lab report.

Thanks,

Ed Riege
Environmental Manager

Western Refining
Gallup Refinery
Route 3 Box 7
Gallup, NM 87301
(505) 722-0217
ed.riege@wnr.com

REVISED TABLE 1. FINAL BASELINE AND ALTERNATE BENEFICIAL REUSE SOIL CONCENTRATIONS, OIL CONSERVATION DIVISION LANDFARMS
WESTERN REFINING SOUTHWEST, GALLUP REFINERY, GALLUP, NEW MEXICO

This table has been revised based on a WesternOCD conference call on November 1, 2011. Revisions are highlighted yellow.

Analyte	Analytical Method	Reporting Units	Sample ID "Background" Collected February 2010			Sample ID "BG-NE-033011" Collected March 2011			Sample ID "BG-W-033011" Collected March 2011			Sample ID "BG-S-033011" Collected March 2011			Final Baseline Concentration	Alternate Beneficial Reuse Screening Concentration
			Result	POL	Sample Baseline Concentration	Result	POL	Sample Baseline Concentration	Result	POL	Sample Baseline Concentration	Result	POL	Sample Baseline Concentration		
Chloride	E300	mg/kg	ND	7,500	7,500	7,500	7,500	7,500	ND	7,500	7,500	ND	7,500	7,500	7,525	500
Fluoride	E300	mg/kg	3,300	1,500	3,300	4,300	1,500	4,300	2,400	1,500	2,400	1,600	1,500	1,800	2,950	18600
Nitrogen, Nitrate (As N)	E300	mg/kg	2,200	1,500	2,200	ND	1,500	1,500	3,000	1,500	3,000	ND	1,500	2,100	2,200	486000
Sulfate	E300	mg/kg	18,000	7,500	18,000	42,000	7,500	42,000	15,000	7,500	15,000	11,000	7,500	11,000	21,500	12000
Radium-226	E901.1	PC/g	1,500	NA	1,500	1,290	NA	1,290	NA	NA	NA	NA	NA	NA	1,395	NA
Radium-228	E901.1	PC/g	1,100	NA	1,100	1,400	NA	1,400	NA	NA	NA	NA	NA	NA	1,250	NA
Radium-226-Radium-228	E901.1	PC/g	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,645	600
Arsenic	SW6010A	mg/kg	ND	13,000	13,000	ND	13,000	13,000	ND	13,000	13,000	ND	13,000	13,000	13,000	65.4
Barium	SW6010A	mg/kg	310,000	1,000	310,000	380,000	1,000	380,000	380,000	1,000	390,000	ND	1,000	390,000	385,000	4350
Cadmium	SW6010A	mg/kg	ND	0.500	0.500	ND	0.500	0.500	ND	0.500	0.500	ND	0.500	0.500	0.500	309
Chromium	SW6010A	mg/kg	8,000	1,500	8,000	17,000	1,500	17,000	16,000	1,500	16,000	9,800	1,500	9,800	12,700	447000
Copper	SW6010A	mg/kg	4,000	1,500	4,000	4,200	1,500	4,200	1,700	1,500	1,700	1,900	1,500	1,900	2,950	12400
Iron	SW6010A	mg/kg	NA	NA	NA	20000,000	560,000	20000,000	19000,000	500,000	19000,000	13000,000	500,000	13000,000	17333,333	217000
Lead	SW6010A	mg/kg	NA	NA	NA	6,000	1,300	6,000	8,200	1,300	8,200	2,400	1,300	2,400	5,533	800
Manganese	SW6010A	mg/kg	NA	NA	NA	370,000	13,000	370,000	370,000	13,000	370,000	820,000	50,000	820,000	520,000	463
Selenium	SW6010A	mg/kg	ND	13,000	13,000	ND	1,300	1,300	ND	1,300	1,300	ND	1,300	1,300	13,000	1550
Silver	SW6010A	mg/kg	1,300	1,300	1,300	ND	1,300	1,300	ND	1,300	1,300	ND	1,300	1,300	1,300	1550
Uranium	SW6010A	mg/kg	ND	25,000	25,000	ND	50,000	50,000	ND	50,000	50,000	ND	50,000	50,000	43,750	929
Zinc	SW6010A	mg/kg	NA	NA	NA	23,000	13,000	23,000	20,000	13,000	21,000	13,000	21,000	21,000	21,333	92900
Mercury	SW7471	mg/kg	0.330	0.330	0.330	ND	0.033	0.033	ND	0.033	0.033	ND	0.033	0.033	0.107	63.6
Anticid 1016	SW6082	mg/kg	NA	NA	NA	ND	0.020	0.020	NA	NA	NA	NA	NA	NA	0.020	15.3
Anticid 1221	SW6082	mg/kg	NA	NA	NA	ND	0.020	0.020	NA	NA	NA	NA	NA	NA	0.020	71.3
Anticid 1232	SW6082	mg/kg	NA	NA	NA	ND	0.020	0.020	NA	NA	NA	NA	NA	NA	0.020	71.3
Anticid 1242	SW6082	mg/kg	NA	NA	NA	ND	0.020	0.020	NA	NA	NA	NA	NA	NA	0.020	75.8
Anticid 1248	SW6082	mg/kg	NA	NA	NA	ND	0.020	0.020	NA	NA	NA	NA	NA	NA	0.020	75.8
Anticid 1254	SW6082	mg/kg	NA	NA	NA	ND	0.020	0.020	NA	NA	NA	NA	NA	NA	0.020	43.6
Anticid 1260	SW6082	mg/kg	NA	NA	NA	ND	0.020	0.020	NA	NA	NA	NA	NA	NA	0.020	75.8
1,1,1-Trichloroethane	SW6260B	mg/kg	ND	0.050	0.050	ND	0.050	0.050	NA	NA	NA	NA	NA	NA	0.050	64300
1,1,2-Trichloroethane	SW6260B	mg/kg	ND	0.100	0.100	ND	0.100	0.100	NA	NA	NA	NA	NA	NA	0.100	1200
1,1-Dichloroethane	SW6260B	mg/kg	ND	0.050	0.050	ND	0.050	0.050	NA	NA	NA	NA	NA	NA	0.050	6880
1,2-Dichloroethane	SW6260B	mg/kg	ND	0.050	0.050	ND	0.050	0.050	NA	NA	NA	NA	NA	NA	0.050	1930
Benzene	SW6260B	mg/kg	ND	0.050	0.050	ND	0.050	0.050	NA	NA	NA	NA	NA	NA	0.050	0.2
Carbon tetrachloride	SW6260B	mg/kg	ND	0.100	0.100	ND	0.100	0.100	NA	NA	NA	NA	NA	NA	0.100	671
Chloroform	SW6260B	mg/kg	ND	0.050	0.050	ND	0.050	0.050	NA	NA	NA	NA	NA	NA	0.050	871
Dichloromethane	SW6260B	mg/kg	ND	0.100	0.100	ND	0.100	0.100	NA	NA	NA	NA	NA	NA	0.100	0.002
Ethylbenzene	SW6260B	mg/kg	ND	0.050	0.050	ND	0.050	0.050	NA	NA	NA	NA	NA	NA	0.050	507
Methylene chloride	SW6260B	mg/kg	ND	0.150	0.150	ND	0.150	0.150	NA	NA	NA	NA	NA	NA	0.150	10600
Tetrachloroethene	SW6260B	mg/kg	ND	0.050	0.050	ND	0.050	0.050	NA	NA	NA	NA	NA	NA	0.050	338
Toluene	SW6260B	mg/kg	ND	0.050	0.050	ND	0.050	0.050	NA	NA	NA	NA	NA	NA	0.050	507
Trichloroethene	SW6260B	mg/kg	ND	0.050	0.050	ND	0.050	0.050	NA	NA	NA	NA	NA	NA	0.050	4600
Vinyl chloride	SW6260B	mg/kg	ND	0.050	0.050	ND	0.050	0.050	NA	NA	NA	NA	NA	NA	0.050	248
Xylenes, Total	SW6260B	mg/kg	ND	0.100	0.100	ND	0.100	0.100	NA	NA	NA	NA	NA	NA	0.100	507

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			Result	PQL	Sample Baseline Concentration	Result	PQL	Sample Baseline Concentration	Result	PQL	Sample Baseline Concentration	Result	PQL	Sample Baseline Concentration		
2,4,5-Trichlorophenol	SW8270C	mg/kg	ND	0.200	0.200	ND	0.200	0.200	NA	NA	NA	NA	NA	NA	0.200	23800
2,4,6-Trichlorophenol	SW8270C	mg/kg	ND	0.200	0.200	ND	0.200	0.200	NA	NA	NA	NA	NA	NA	0.200	238
2,4-Dichlorophenol	SW8270C	mg/kg	ND	0.400	0.400	ND	0.400	0.400	NA	NA	NA	NA	NA	NA	0.400	715
2,4-Dimethylphenol	SW8270C	mg/kg	ND	0.300	0.300	ND	0.300	0.300	NA	NA	NA	NA	NA	NA	0.300	4760
2,4-Dinitrophenol	SW8270C	mg/kg	ND	0.400	0.400	ND	0.400	0.400	NA	NA	NA	NA	NA	NA	0.400	476
2-Chlorophenol	SW8270C	mg/kg	ND	0.200	0.200	ND	0.200	0.200	NA	NA	NA	NA	NA	NA	0.200	1550
2-Methylphenol	SW8270C	mg/kg	ND	0.500	0.500	ND	0.500	0.500	NA	NA	NA	NA	NA	NA	0.500	0.1
3-Methylphenol	SW8270C	mg/kg	ND	0.200	0.200	ND	0.200	0.200	NA	NA	NA	NA	NA	NA	0.200	0.1
4-Chloro-2-methylphenol	SW8270C	mg/kg	ND	0.500	0.500	ND	0.500	0.500	NA	NA	NA	NA	NA	NA	0.500	23.8
4-Nitrophenol	SW8270C	mg/kg	ND	0.500	0.500	ND	0.500	0.500	NA	NA	NA	NA	NA	NA	0.500	0.1
4-Nitrophenol	SW8270C	mg/kg	ND	0.400	0.400	ND	0.400	0.400	NA	NA	NA	NA	NA	NA	0.400	1030
Phenol	SW8270C	mg/kg	ND	0.200	0.200	ND	0.200	0.200	NA	NA	NA	NA	NA	NA	0.200	68800
1-Methylnaphthalene	SW83100260B	mg/kg	NA	NA	NA	ND	0.250	0.250	NA	NA	NA	NA	NA	NA	0.200*	0.6
2-Methylnaphthalene	SW83100270C	mg/kg	NA	NA	NA	ND	0.250	0.250	NA	NA	NA	NA	NA	NA	0.200*	0.6
Acenaphthylene	SW83100270C	mg/kg	NA	NA	NA	ND	0.250	0.250	NA	NA	NA	NA	NA	NA	0.200*	18600
Acenaphthylene	SW83100270C	mg/kg	NA	NA	NA	ND	0.015	0.015	NA	NA	NA	NA	NA	NA	0.200*	0.6
Anthracene	SW83100270C	mg/kg	NA	NA	NA	ND	0.010	0.010	NA	NA	NA	NA	NA	NA	0.200*	66800
Benzofluoranthene	SW83100270C	mg/kg	NA	NA	NA	ND	0.010	0.010	NA	NA	NA	NA	NA	NA	0.200*	213
Benzofluoranthene	SW83100270C	mg/kg	NA	NA	NA	ND	0.010	0.010	NA	NA	NA	NA	NA	NA	0.200*	213
Benzofluoranthene	SW83100270C	mg/kg	NA	NA	NA	ND	0.010	0.010	NA	NA	NA	NA	NA	NA	0.200*	0.6
Benzofluoranthene	SW83100270C	mg/kg	NA	NA	NA	ND	0.011	0.011	NA	NA	NA	NA	NA	NA	0.200*	2060
Chrysene	SW83100270C	mg/kg	NA	NA	NA	ND	0.010	0.010	NA	NA	NA	NA	NA	NA	0.200*	2060
Dibenzofluoranthene	SW83100270C	mg/kg	NA	NA	NA	ND	0.010	0.010	NA	NA	NA	NA	NA	NA	0.200*	21.3
Fluorene	SW83100270C	mg/kg	NA	NA	NA	ND	0.020	0.020	NA	NA	NA	NA	NA	NA	0.200*	8910
Indeno(1,2,3-c)pyrene	SW83100270C	mg/kg	NA	NA	NA	ND	0.100	0.100	NA	NA	NA	NA	NA	NA	0.200*	213
Naphthalene	SW83100270C	mg/kg	NA	NA	NA	ND	0.250	0.250	NA	NA	NA	NA	NA	NA	0.200*	702
Phenanthrene	SW83100270C	mg/kg	NA	NA	NA	ND	0.015	0.015	NA	NA	NA	NA	NA	NA	0.200*	7150
Pyrene	SW83100270C	mg/kg	NA	NA	NA	ND	0.025	0.025	NA	NA	NA	NA	NA	NA	0.200*	6680
Creosote	SW8012	mg/kg	ND	0.500	0.500	ND	0.350	0.350	NA	NA	NA	NA	NA	NA	0.425	6190
Diesel Range Organics (DRO)	SW8015	mg/kg	ND	10,000	10,000	ND	NA	NA	NA	NA	NA	NA	NA	NA	10,000	NA
Gasoline Range Organics (GRO)	SW8290B	mg/kg	ND	5,000	5,000	ND	NA	NA	NA	NA	NA	NA	NA	NA	5,000	NA
Total BTEX	SW8290B	mg/kg	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	0.250	50
Petroleum Hydrocarbons, TR	E418.1	mg/kg	ND	20,000	20,000	ND	NA	NA	NA	NA	NA	NA	NA	NA	20,000	2500
DRO-GRO	SW8015	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15,000	500

Notes:
PQL = practical quantitation limit.
ND = Not detected above the PQL.
NA = Data not available.
PQLs = Polyaromatic aromatic hydrocarbons.

The Final Baseline Concentrations shown above are the average of the data available from the four baseline samples with the exception mentioned below.
The Final Baseline Concentration for Total BTEX = the sum of the Final Baseline Concentrations for each of the four individual analytes.
The Final Baseline Concentration for DRO-GRO = the sum of the Final Baseline Concentrations for Petroleum 228 and Petroleum 228.
*Data were only analyzed for one of four baseline sample locations utilizing SIM analysis (SW83100).

A lower PQL (0.020 mg/kg) is achieved utilizing SIM analysis than standard analysis (SW8270C).

Gallop intend to analyze future soil samples using the standard analysis.

The Final Baseline Concentration (0.100 mg/kg) for the PQLs provided from Hall Environmental for the standard analysis (SW8270C).

The Yuhavata Baseline Final Baseline Concentrations (ABRSC) shown above are the highest of the following three screening standards:

NAED Construction Worker Soil Screening Standards

OCED Form C-137 EZ (Regulation/Field Closure Report for Small Landfill) Screening Standards

NAED 20.6.2.103 Screening Standards with a 20 x dilution factor

In the event that a screening standard for a particular analyte does not exist for each of the above three screening standards, the ABRSC has been set to "NA".

The ABRSCs for benzene, anthracene, fluorene, and naphthalene have been reduced to 50 mg/kg so that the individual analyte ABRSCs do not exceed the Total BTEX ABRSC.

The ABRSCs for petroleum 228 and petroleum 228 are not shown in the table as they are not shown in the Total BTEX ABRSC.

As a result, chlorides and benzene ABRSCs have been set to equal the OCED Form C-137 Screening Standards.



COVER LETTER

Friday, December 10, 2010

Ed Riege
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301
TEL: (505) 722-3833
FAX: (505) 722-0210

RE: OCD Landfarms

Order No.: 1011126

Dear Ed Riege:

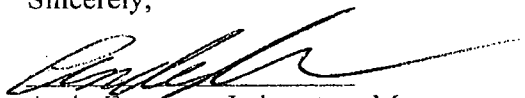
Hall Environmental Analysis Laboratory, Inc. received 13 sample(s) on 11/3/2010 for the analyses presented in the following report.

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

Reporting limits are determined by EPA methodology.

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

Sincerely,



Andy Freeman, Laboratory Manager

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



Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-01

Client Sample ID: CentralOCD 01 110210
Collection Date: 11/2/2010 10:15:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Surr: Decachlorobiphenyl	84.4	16.9-111		%REC	1	11/6/2010 8:54:28 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	2.6	1.5		mg/Kg	5	11/16/2010 3:41:56 AM
Chloride	720	30		mg/Kg	20	11/16/2010 3:59:21 AM
Nitrogen, Nitrate (As N)	9.4	1.5		mg/Kg	5	11/16/2010 3:41:56 AM
Sulfate	470	7.5		mg/Kg	5	11/16/2010 3:41:56 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:26:04 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 9:31:56 AM
Barium	330	1.0		mg/Kg	10	11/18/2010 10:05:45 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 9:31:56 AM
Chromium	16	1.5		mg/Kg	5	11/17/2010 9:31:56 AM
Copper	4.4	1.5		mg/Kg	5	11/17/2010 9:31:56 AM
Iron	15000	500		mg/Kg	500	11/18/2010 12:18:48 PM
Lead	6.3	1.3		mg/Kg	5	11/17/2010 9:31:56 AM
Manganese	380	1.0		mg/Kg	10	11/18/2010 10:05:45 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 9:31:56 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 9:31:56 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:05:45 AM
Zinc	24	13		mg/Kg	5	11/17/2010 9:31:56 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-01

Client Sample ID: CentralOCD 01 110210
 Collection Date: 11/2/2010 10:15:00 AM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 12:50:55 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 12:50:55 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 12:50:55 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 12:50:55 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 12:50:55 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 12:50:55 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-01

Client Sample ID: CentralOCD 01 110210
Collection Date: 11/2/2010 10:15:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 12:50:55 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 12:50:55 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Surr: 2,4,6-Tribromophenol	79.3	32.2-125		%REC	1	11/11/2010 12:50:55 PM
Surr: 2-Fluorobiphenyl	86.9	29.8-137		%REC	1	11/11/2010 12:50:55 PM
Surr: 2-Fluorophenol	92.4	22.6-131		%REC	1	11/11/2010 12:50:55 PM
Surr: 4-Terphenyl-d14	82.2	23.8-110		%REC	1	11/11/2010 12:50:55 PM
Surr: Nitrobenzene-d5	103	29.5-130		%REC	1	11/11/2010 12:50:55 PM
Surr: Phenol-d5	98.8	25.5-127		%REC	1	11/11/2010 12:50:55 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 9:04:21 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 9:04:21 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 9:04:21 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
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NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-01

Client Sample ID: CentralOCD 01 110210
Collection Date: 11/2/2010 10:15:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 9:04:21 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 9:04:21 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 9:04:21 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 9:04:21 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 9:04:21 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 9:04:21 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 9:04:21 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM

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S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-01

Client Sample ID: CentralOCD 01 110210
Collection Date: 11/2/2010 10:15:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
Surr: 1,2-Dichloroethane-d4	102	77.8-97.5	S	%REC	1	11/6/2010 9:04:21 PM
Surr: 4-Bromofluorobenzene	97.3	82.2-105		%REC	1	11/6/2010 9:04:21 PM
Surr: Dibromofluoromethane	103	63.7-133		%REC	1	11/6/2010 9:04:21 PM
Surr: Toluene-d8	95.3	87.2-105		%REC	1	11/6/2010 9:04:21 PM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-02

Client Sample ID: CentralOCD 02 110210
Collection Date: 11/2/2010 11:20:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Surr: Decachlorobiphenyl	97.6	16.9-111		%REC	1	11/6/2010 9:42:05 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	2.9	0.30		mg/Kg	1	11/16/2010 4:16:46 AM
Chloride	78	15		mg/Kg	10	11/16/2010 5:08:59 AM
Nitrogen, Nitrate (As N)	6.3	0.30		mg/Kg	1	11/16/2010 4:16:46 AM
Sulfate	790	15		mg/Kg	10	11/16/2010 5:08:59 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	0.035	0.033		mg/Kg	1	11/11/2010 1:27:50 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 9:58:30 AM
Barium	280	1.0		mg/Kg	10	11/18/2010 10:12:05 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 9:58:30 AM
Chromium	21	1.5		mg/Kg	5	11/17/2010 9:58:30 AM
Copper	22	1.5		mg/Kg	5	11/17/2010 9:58:30 AM
Iron	17000	500		mg/Kg	500	11/18/2010 12:21:50 PM
Lead	8.6	1.3		mg/Kg	5	11/17/2010 9:58:30 AM
Manganese	430	1.0		mg/Kg	10	11/18/2010 10:12:05 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 9:58:30 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 9:58:30 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:12:05 AM
Zinc	96	13		mg/Kg	5	11/17/2010 9:58:30 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-02

Client Sample ID: CentralOCD 02 110210
Collection Date: 11/2/2010 11:20:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 1:20:21 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 1:20:21 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 1:20:21 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 1:20:21 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 1:20:21 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 1:20:21 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-02

Client Sample ID: CentralOCD 02 110210
Collection Date: 11/2/2010 11:20:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 1:20:21 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 1:20:21 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Surr: 2,4,6-Tribromophenol	73.6	32.2-125		%REC	1	11/11/2010 1:20:21 PM
Surr: 2-Fluorobiphenyl	75.2	29.8-137		%REC	1	11/11/2010 1:20:21 PM
Surr: 2-Fluorophenol	77.3	22.6-131		%REC	1	11/11/2010 1:20:21 PM
Surr: 4-Terphenyl-d14	77.9	23.8-110		%REC	1	11/11/2010 1:20:21 PM
Surr: Nitrobenzene-d5	80.6	29.5-130		%REC	1	11/11/2010 1:20:21 PM
Surr: Phenol-d5	78.9	25.5-127		%REC	1	11/11/2010 1:20:21 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 9:32:38 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 9:32:38 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 9:32:38 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-02

Client Sample ID: CentralOCD 02 110210
Collection Date: 11/2/2010 11:20:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 9:32:38 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 9:32:38 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 9:32:38 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 9:32:38 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 9:32:38 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 9:32:38 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 9:32:38 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-02

Client Sample ID: CentralOCD 02 110210
 Collection Date: 11/2/2010 11:20:00 AM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
Surr: 1,2-Dichloroethane-d4	100	77.8-97.5	S	%REC	1	11/6/2010 9:32:38 PM
Surr: 4-Bromofluorobenzene	74.6	82.2-105	S	%REC	1	11/6/2010 9:32:38 PM
Surr: Dibromofluoromethane	103	63.7-133		%REC	1	11/6/2010 9:32:38 PM
Surr: Toluene-d8	95.7	87.2-105		%REC	1	11/6/2010 9:32:38 PM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-03

Client Sample ID: CentralOCD 03 110210
Collection Date: 11/2/2010 11:45:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Surr: Decachlorobiphenyl	86.4	16.9-111		%REC	1	11/6/2010 12:01:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	6.0		mg/Kg	20	11/16/2010 5:26:24 AM
Chloride	210	30		mg/Kg	20	11/16/2010 5:26:24 AM
Nitrogen, Nitrate (As N)	7.2	6.0		mg/Kg	20	11/16/2010 5:26:24 AM
Sulfate	470	30		mg/Kg	20	11/16/2010 5:26:24 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:33:08 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 10:16:32 AM
Barium	210	0.50		mg/Kg	5	11/17/2010 10:16:32 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 10:16:32 AM
Chromium	15	1.5		mg/Kg	5	11/17/2010 10:16:32 AM
Copper	4.5	1.5		mg/Kg	5	11/17/2010 10:16:32 AM
Iron	14000	500		mg/Kg	500	11/18/2010 12:24:53 PM
Lead	5.2	1.3		mg/Kg	5	11/17/2010 10:16:32 AM
Manganese	370	1.0		mg/Kg	10	11/18/2010 10:20:12 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 10:16:32 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 10:16:32 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:20:12 AM
Zinc	25	13		mg/Kg	5	11/17/2010 10:16:32 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-03

Client Sample ID: CentralOCD 03 110210
Collection Date: 11/2/2010 11:45:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 2:49:08 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 2:49:08 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 2:49:08 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 2:49:08 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 2:49:08 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 2:49:08 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-03

Client Sample ID: CentralOCD 03 110210
Collection Date: 11/2/2010 11:45:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 2:49:08 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 2:49:08 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Surr: 2,4,6-Tribromophenol	75.2	32.2-125		%REC	1	11/11/2010 2:49:08 PM
Surr: 2-Fluorobiphenyl	71.4	29.8-137		%REC	1	11/11/2010 2:49:08 PM
Surr: 2-Fluorophenol	73.9	22.6-131		%REC	1	11/11/2010 2:49:08 PM
Surr: 4-Terphenyl-d14	73.2	23.8-110		%REC	1	11/11/2010 2:49:08 PM
Surr: Nitrobenzene-d5	79.1	29.5-130		%REC	1	11/11/2010 2:49:08 PM
Surr: Phenol-d5	74.9	25.5-127		%REC	1	11/11/2010 2:49:08 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 10:01:01 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 10:01:01 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 10:01:01 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-03

Client Sample ID: CentralOCD 03 110210
Collection Date: 11/2/2010 11:45:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 10:01:01 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 10:01:01 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 10:01:01 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 10:01:01 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 10:01:01 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 10:01:01 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 10:01:01 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-03

Client Sample ID: CentralOCD 03 110210
 Collection Date: 11/2/2010 11:45:00 AM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
Surr: 1,2-Dichloroethane-d4	93.9	77.8-97.5		%REC	1	11/6/2010 10:01:01 PM
Surr: 4-Bromofluorobenzene	93.7	82.2-105		%REC	1	11/6/2010 10:01:01 PM
Surr: Dibromofluoromethane	94.9	63.7-133		%REC	1	11/6/2010 10:01:01 PM
Surr: Toluene-d8	99.7	87.2-105		%REC	1	11/6/2010 10:01:01 PM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

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 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup Client Sample ID: Central OCD 04 110210
 Lab Order: 1011126 Collection Date: 11/2/2010 12:10:00 PM
 Project: OCD Landfarms Date Received: 11/3/2010
 Lab ID: 1011126-04 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Surr: Decachlorobiphenyl	87.6	16.9-111		%REC	1	11/6/2010 12:48:24 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	6.6	3.0		mg/Kg	10	11/16/2010 5:43:48 AM
Chloride	380	15		mg/Kg	10	11/16/2010 5:43:48 AM
Nitrogen, Nitrate (As N)	4.7	3.0		mg/Kg	10	11/16/2010 5:43:48 AM
Sulfate	600	15		mg/Kg	10	11/16/2010 5:43:48 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:34:55 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 10:24:18 AM
Barium	380	1.0		mg/Kg	10	11/18/2010 10:35:34 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 10:24:18 AM
Chromium	16	1.5		mg/Kg	5	11/17/2010 10:24:18 AM
Copper	4.3	1.5		mg/Kg	5	11/17/2010 10:24:18 AM
Iron	16000	500		mg/Kg	500	11/18/2010 12:27:47 PM
Lead	5.2	1.3		mg/Kg	5	11/17/2010 10:24:18 AM
Manganese	320	1.0		mg/Kg	10	11/18/2010 10:35:34 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 10:24:18 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 10:24:18 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:35:34 AM
Zinc	23	13		mg/Kg	5	11/17/2010 10:24:18 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
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 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-04

Client Sample ID: Central OCD 04 110210
Collection Date: 11/2/2010 12:10:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 3:18:50 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 3:18:50 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 3:18:50 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 3:18:50 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 3:18:50 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 3:18:50 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Central OCD 04 110210

Lab Order: 1011126

Collection Date: 11/2/2010 12:10:00 PM

Project: OCD Landfarms

Date Received: 11/3/2010

Lab ID: 1011126-04

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 3:18:50 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 3:18:50 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Surr: 2,4,6-Tribromophenol	80.6	32.2-125		%REC	1	11/11/2010 3:18:50 PM
Surr: 2-Fluorobiphenyl	79.6	29.8-137		%REC	1	11/11/2010 3:18:50 PM
Surr: 2-Fluorophenol	84.7	22.8-131		%REC	1	11/11/2010 3:18:50 PM
Surr: 4-Terphenyl-d14	86.3	23.8-110		%REC	1	11/11/2010 3:18:50 PM
Surr: Nitrobenzene-d5	86.9	29.5-130		%REC	1	11/11/2010 3:18:50 PM
Surr: Phenol-d5	89.6	25.5-127		%REC	1	11/11/2010 3:18:50 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 10:29:26 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 10:29:26 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 10:29:26 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-04

Client Sample ID: Central OCD 04 110210
 Collection Date: 11/2/2010 12:10:00 PM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 10:29:26 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 10:29:26 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 10:29:26 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 10:29:26 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 10:29:26 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 10:29:26 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 10:29:26 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT:	Western Refining Southwest, Gallup	Client Sample ID:	Central OCD 04 110210
Lab Order:	1011126	Collection Date:	11/2/2010 12:10:00 PM
Project:	OCD Landfarms	Date Received:	11/3/2010
Lab ID:	1011126-04	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
Surr: 1,2-Dichloroethane-d4	91.5	77.8-97.5		%REC	1	11/6/2010 10:29:26 PM
Surr: 4-Bromofluorobenzene	94.0	82.2-105		%REC	1	11/6/2010 10:29:26 PM
Surr: Dibromofluoromethane	95.6	63.7-133		%REC	1	11/6/2010 10:29:26 PM
Surr: Toluene-d8	93.3	87.2-105		%REC	1	11/6/2010 10:29:26 PM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-05

Client Sample ID: NEOCD 01 110210
Collection Date: 11/2/2010 1:15:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Surr: Decachlorobiphenyl	85.2	16.9-111		%REC	1	11/6/2010 1:35:38 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	6.0		mg/Kg	20	11/16/2010 6:36:02 AM
Chloride	100	30		mg/Kg	20	11/16/2010 6:36:02 AM
Nitrogen, Nitrate (As N)	ND	6.0		mg/Kg	20	11/16/2010 6:36:02 AM
Sulfate	230	30		mg/Kg	20	11/16/2010 6:36:02 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:36:44 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 10:32:06 AM
Barium	250	0.50		mg/Kg	5	11/17/2010 10:32:06 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 10:32:06 AM
Chromium	14	1.5		mg/Kg	5	11/17/2010 10:32:06 AM
Copper	3.2	1.5		mg/Kg	5	11/17/2010 10:32:06 AM
Iron	17000	500		mg/Kg	500	11/18/2010 12:46:15 PM
Lead	7.0	1.3		mg/Kg	5	11/17/2010 10:32:06 AM
Manganese	380	1.0		mg/Kg	10	11/18/2010 10:42:02 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 10:32:06 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 10:32:06 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:42:02 AM
Zinc	21	13		mg/Kg	5	11/17/2010 10:32:06 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-05

Client Sample ID: NEOCD 01 110210
Collection Date: 11/2/2010 1:15:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 3:48:28 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 3:48:28 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 3:48:28 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 3:48:28 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 3:48:28 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 3:48:28 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-05

Client Sample ID: NEOCD 01 110210
Collection Date: 11/2/2010 1:15:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 3:48:28 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 3:48:28 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Surr: 2,4,6-Tribromophenol	61.8	32.2-125		%REC	1	11/11/2010 3:48:28 PM
Surr: 2-Fluorobiphenyl	59.9	29.8-137		%REC	1	11/11/2010 3:48:28 PM
Surr: 2-Fluorophenol	62.0	22.6-131		%REC	1	11/11/2010 3:48:28 PM
Surr: 4-Terphenyl-d14	67.0	23.8-110		%REC	1	11/11/2010 3:48:28 PM
Surr: Nitrobenzene-d5	66.7	29.5-130		%REC	1	11/11/2010 3:48:28 PM
Surr: Phenol-d5	61.9	25.5-127		%REC	1	11/11/2010 3:48:28 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 10:57:36 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 10:57:36 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 10:57:36 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-05

Client Sample ID: NEOCD 01 110210
Collection Date: 11/2/2010 1:15:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 10:57:36 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 10:57:36 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 10:57:36 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 10:57:36 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 10:57:36 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 10:57:36 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 10:57:36 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-05

Client Sample ID: NEOCD 01 110210
Collection Date: 11/2/2010 1:15:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
Surr: 1,2-Dichloroethane-d4	94.2	77.8-97.5		%REC	1	11/6/2010 10:57:36 PM
Surr: 4-Bromofluorobenzene	93.9	82.2-105		%REC	1	11/6/2010 10:57:36 PM
Surr: Dibromofluoromethane	92.7	63.7-133		%REC	1	11/6/2010 10:57:36 PM
Surr: Toluene-d8	97.9	87.2-105		%REC	1	11/6/2010 10:57:36 PM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-06

Client Sample ID: NEOCD 02 110210
Collection Date: 11/2/2010 1:40:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Surr: Decachlorobiphenyl	101	16.9-111		%REC	1	11/6/2010 2:21:13 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	6.0		mg/Kg	20	11/16/2010 6:53:26 AM
Chloride	72	30		mg/Kg	20	11/16/2010 6:53:26 AM
Nitrogen, Nitrate (As N)	17	6.0		mg/Kg	20	11/16/2010 6:53:26 AM
Sulfate	270	30		mg/Kg	20	11/16/2010 6:53:26 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:38:32 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 10:52:22 AM
Barium	330	1.0		mg/Kg	10	11/18/2010 10:48:43 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 10:52:22 AM
Chromium	13	1.5		mg/Kg	5	11/17/2010 10:52:22 AM
Copper	2.7	1.5		mg/Kg	5	11/17/2010 10:52:22 AM
Iron	14000	500		mg/Kg	500	11/18/2010 12:49:07 PM
Lead	5.9	1.3		mg/Kg	5	11/17/2010 10:52:22 AM
Manganese	380	1.0		mg/Kg	10	11/18/2010 10:48:43 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 10:52:22 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 10:52:22 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:48:43 AM
Zinc	24	13		mg/Kg	5	11/17/2010 10:52:22 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-06

Client Sample ID: NEOCD 02 110210
Collection Date: 11/2/2010 1:40:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 4:18:10 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 4:18:10 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 4:18:10 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 4:18:10 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 4:18:10 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 4:18:10 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-06

Client Sample ID: NEOCD 02 110210
Collection Date: 11/2/2010 1:40:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 4:18:10 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 4:18:10 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Surr: 2,4,6-Tribromophenol	86.1	32.2-125		%REC	1	11/11/2010 4:18:10 PM
Surr: 2-Fluorobiphenyl	89.0	29.8-137		%REC	1	11/11/2010 4:18:10 PM
Surr: 2-Fluorophenol	91.3	22.6-131		%REC	1	11/11/2010 4:18:10 PM
Surr: 4-Terphenyl-d14	83.1	23.8-110		%REC	1	11/11/2010 4:18:10 PM
Surr: Nitrobenzene-d5	96.7	29.5-130		%REC	1	11/11/2010 4:18:10 PM
Surr: Phenol-d5	95.6	25.5-127		%REC	1	11/11/2010 4:18:10 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 11:25:46 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 11:25:46 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 11:25:46 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-06

Client Sample ID: NEOCD 02 110210
 Collection Date: 11/2/2010 1:40:00 PM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 11:25:46 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 11:25:46 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 11:25:46 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 11:25:46 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 11:25:46 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 11:25:46 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 11:25:46 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-06

Client Sample ID: NEOCD 02 110210
Collection Date: 11/2/2010 1:40:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
Surr: 1,2-Dichloroethane-d4	94.7	77.8-97.5		%REC	1	11/6/2010 11:25:46 PM
Surr: 4-Bromofluorobenzene	94.0	82.2-105		%REC	1	11/6/2010 11:25:46 PM
Surr: Dibromofluoromethane	96.1	63.7-133		%REC	1	11/6/2010 11:25:46 PM
Surr: Toluene-d8	97.9	87.2-105		%REC	1	11/6/2010 11:25:46 PM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-07

Client Sample ID: NEOCD 03 1102010
Collection Date: 11/2/2010 2:00:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Surr: Decachlorobiphenyl	98.8	16.9-111		%REC	1	11/6/2010 5:31:43 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	6.0		mg/Kg	20	11/16/2010 7:10:51 AM
Chloride	120	30		mg/Kg	20	11/16/2010 7:10:51 AM
Nitrogen, Nitrate (As N)	6.8	6.0		mg/Kg	20	11/16/2010 7:10:51 AM
Sulfate	660	30		mg/Kg	20	11/16/2010 7:10:51 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:44:01 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 11:00:20 AM
Barium	320	1.0		mg/Kg	10	11/18/2010 10:56:56 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 11:00:20 AM
Chromium	12	1.5		mg/Kg	5	11/17/2010 11:00:20 AM
Copper	2.1	1.5		mg/Kg	5	11/17/2010 11:00:20 AM
Iron	13000	500		mg/Kg	500	11/18/2010 12:52:12 PM
Lead	5.9	1.3		mg/Kg	5	11/17/2010 11:00:20 AM
Manganese	390	1.0		mg/Kg	10	11/18/2010 10:56:56 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 11:00:20 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 11:00:20 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:58:56 AM
Zinc	17	13		mg/Kg	5	11/17/2010 11:00:20 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-07

Client Sample ID: NEOCD 03 1102010
Collection Date: 11/2/2010 2:00:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 4:47:49 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 4:47:49 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 4:47:49 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 4:47:49 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 4:47:49 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 4:47:49 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-07

Client Sample ID: NEOCD 03 1102010
 Collection Date: 11/2/2010 2:00:00 PM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 4:47:49 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 4:47:49 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Surr: 2,4,6-Tribromophenol	92.4	32.2-125		%REC	1	11/11/2010 4:47:49 PM
Surr: 2-Fluorobiphenyl	101	29.8-137		%REC	1	11/11/2010 4:47:49 PM
Surr: 2-Fluorophenol	104	22.6-131		%REC	1	11/11/2010 4:47:49 PM
Surr: 4-Terphenyl-d14	91.5	23.8-110		%REC	1	11/11/2010 4:47:49 PM
Surr: Nitrobenzene-d5	112	29.5-130		%REC	1	11/11/2010 4:47:49 PM
Surr: Phenol-d5	113	25.5-127		%REC	1	11/11/2010 4:47:49 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 11:53:58 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 11:53:58 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 11:53:58 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-07

Client Sample ID: NEOCD 03 1102010
Collection Date: 11/2/2010 2:00:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 11:53:58 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 11:53:58 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 11:53:58 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 11:53:58 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 11:53:58 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 11:53:58 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 11:53:58 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-07

Client Sample ID: NEOCD 03 1102010
Collection Date: 11/2/2010 2:00:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
Surr: 1,2-Dichloroethane-d4	96.0	77.8-97.5		%REC	1	11/6/2010 11:53:58 PM
Surr: 4-Bromofluorobenzene	95.7	82.2-105		%REC	1	11/6/2010 11:53:58 PM
Surr: Dibromofluoromethane	97.6	63.7-133		%REC	1	11/6/2010 11:53:58 PM
Surr: Toluene-d8	97.0	87.2-105		%REC	1	11/6/2010 11:53:58 PM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-08

Client Sample ID: NEOCD 04 110210
Collection Date: 11/2/2010 2:30:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Surr: Decachlorobiphenyl	99.2	16.9-111		%REC	1	11/6/2010 6:17:12 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	6.0		mg/Kg	20	11/16/2010 7:28:16 AM
Chloride	60	30		mg/Kg	20	11/16/2010 7:28:16 AM
Nitrogen, Nitrate (As N)	61	6.0		mg/Kg	20	11/16/2010 7:28:16 AM
Sulfate	390	30		mg/Kg	20	11/16/2010 7:28:16 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:45:50 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 11:08:08 AM
Barium	310	2.0		mg/Kg	20	11/18/2010 12:55:03 PM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 11:08:08 AM
Chromium	16	1.5		mg/Kg	5	11/17/2010 11:08:08 AM
Copper	3.6	1.5		mg/Kg	5	11/17/2010 11:08:08 AM
Iron	17000	500		mg/Kg	500	11/18/2010 1:25:15 PM
Lead	6.9	1.3		mg/Kg	5	11/17/2010 11:08:08 AM
Manganese	420	2.0		mg/Kg	20	11/18/2010 12:55:03 PM
Selenium	ND	13		mg/Kg	5	11/17/2010 11:08:08 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 11:08:08 AM
Uranium	ND	100		mg/Kg	20	11/18/2010 12:55:03 PM
Zinc	23	13		mg/Kg	5	11/17/2010 11:08:08 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-08

Client Sample ID: NEOCD 04 110210
Collection Date: 11/2/2010 2:30:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 5:17:19 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 5:17:19 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 5:17:19 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 5:17:19 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 5:17:19 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 5:17:19 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-08

Client Sample ID: NEOCD 04 110210
Collection Date: 11/2/2010 2:30:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 5:17:19 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 5:17:19 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Surr: 2,4,6-Tribromophenol	66.7	32.2-125		%REC	1	11/11/2010 5:17:19 PM
Surr: 2-Fluorobiphenyl	76.1	29.8-137		%REC	1	11/11/2010 5:17:19 PM
Surr: 2-Fluorophenol	76.2	22.6-131		%REC	1	11/11/2010 5:17:19 PM
Surr: 4-Terphenyl-d14	70.8	23.8-110		%REC	1	11/11/2010 5:17:19 PM
Surr: Nitrobenzene-d5	84.2	29.5-130		%REC	1	11/11/2010 5:17:19 PM
Surr: Phenol-d5	79.0	25.5-127		%REC	1	11/11/2010 5:17:19 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Toluene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Naphthalene	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/7/2010 12:22:00 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/7/2010 12:22:00 AM
Acetone	ND	0.75		mg/Kg	1	11/7/2010 12:22:00 AM
Bromobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-08

Client Sample ID: NEOCD 04 110210
 Collection Date: 11/2/2010 2:30:00 PM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Bromoform	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Bromomethane	ND	0.15		mg/Kg	1	11/7/2010 12:22:00 AM
2-Butanone	ND	0.50		mg/Kg	1	11/7/2010 12:22:00 AM
Carbon disulfide	ND	0.50		mg/Kg	1	11/7/2010 12:22:00 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
Chlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Chloroethane	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
Chloroform	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Chloromethane	ND	0.15		mg/Kg	1	11/7/2010 12:22:00 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Dibromomethane	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
2-Hexanone	ND	0.50		mg/Kg	1	11/7/2010 12:22:00 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/7/2010 12:22:00 AM
Methylene chloride	ND	0.15		mg/Kg	1	11/7/2010 12:22:00 AM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Styrene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-08

Client Sample ID: NEOCD 04 110210
Collection Date: 11/2/2010 2:30:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
Vinyl chloride	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
Surr: 1,2-Dichloroethane-d4	98.1	77.8-97.5	S	%REC	1	11/7/2010 12:22:00 AM
Surr: 4-Bromofluorobenzene	95.2	82.2-105		%REC	1	11/7/2010 12:22:00 AM
Surr: Dibromofluoromethane	99.9	63.7-133		%REC	1	11/7/2010 12:22:00 AM
Surr: Toluene-d8	103	87.2-105		%REC	1	11/7/2010 12:22:00 AM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-09

Client Sample ID: BD 1 110210
Collection Date: 11/2/2010
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Surr: Decachlorobiphenyl	86.4	16.9-111		%REC	1	11/6/2010 7:04:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	5.4	3.0		mg/Kg	10	11/16/2010 7:45:41 AM
Chloride	390	15		mg/Kg	10	11/16/2010 7:45:41 AM
Nitrogen, Nitrate (As N)	4.7	3.0		mg/Kg	10	11/16/2010 7:45:41 AM
Sulfate	650	15		mg/Kg	10	11/16/2010 7:45:41 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:47:39 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 11:17:36 AM
Barium	340	1.0		mg/Kg	10	11/18/2010 11:18:44 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 11:17:36 AM
Chromium	16	1.5		mg/Kg	5	11/17/2010 11:17:36 AM
Copper	4.0	1.5		mg/Kg	5	11/17/2010 11:17:36 AM
Iron	15000	500		mg/Kg	500	11/18/2010 1:00:36 PM
Lead	4.9	1.3		mg/Kg	5	11/17/2010 11:17:36 AM
Manganese	350	1.0		mg/Kg	10	11/18/2010 11:18:44 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 11:17:36 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 11:17:36 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 11:18:44 AM
Zinc	23	13		mg/Kg	5	11/17/2010 11:17:36 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-09

Client Sample ID: BD 1 110210
Collection Date: 11/2/2010
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 5:46:53 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 5:46:53 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 5:46:53 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 5:46:53 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 5:46:53 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 5:46:53 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-09

Client Sample ID: BD 1 110210
Collection Date: 11/2/2010
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 5:46:53 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 5:46:53 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Surr: 2,4,6-Tribromophenol	58.3	32.2-125		%REC	1	11/11/2010 5:46:53 PM
Surr: 2-Fluorobiphenyl	57.2	29.8-137		%REC	1	11/11/2010 5:46:53 PM
Surr: 2-Fluorophenol	58.1	22.6-131		%REC	1	11/11/2010 5:46:53 PM
Surr: 4-Terphenyl-d14	55.2	23.8-110		%REC	1	11/11/2010 5:46:53 PM
Surr: Nitrobenzene-d5	67.0	29.5-130		%REC	1	11/11/2010 5:46:53 PM
Surr: Phenol-d5	61.3	25.5-127		%REC	1	11/11/2010 5:46:53 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Toluene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Naphthalene	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/7/2010 12:50:17 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/7/2010 12:50:17 AM
Acetone	ND	0.75		mg/Kg	1	11/7/2010 12:50:17 AM
Bromobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-09

Client Sample ID: BD 1 110210
Collection Date: 11/2/2010
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Bromoform	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Bromomethane	ND	0.15		mg/Kg	1	11/7/2010 12:50:17 AM
2-Butanone	ND	0.50		mg/Kg	1	11/7/2010 12:50:17 AM
Carbon disulfide	ND	0.50		mg/Kg	1	11/7/2010 12:50:17 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
Chlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Chloroethane	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
Chloroform	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Chloromethane	ND	0.15		mg/Kg	1	11/7/2010 12:50:17 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Dibromomethane	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
2-Hexanone	ND	0.50		mg/Kg	1	11/7/2010 12:50:17 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/7/2010 12:50:17 AM
Methylene chloride	ND	0.15		mg/Kg	1	11/7/2010 12:50:17 AM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Styrene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-09

Client Sample ID: BD 1 110210
Collection Date: 11/2/2010
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
Vinyl chloride	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Xylenes, Total	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
Surr: 1,2-Dichloroethane-d4	97.4	77.8-97.5		%REC	1	11/7/2010 12:50:17 AM
Surr: 4-Bromofluorobenzene	94.9	82.2-105		%REC	1	11/7/2010 12:50:17 AM
Surr: Dibromofluoromethane	98.1	63.7-133		%REC	1	11/7/2010 12:50:17 AM
Surr: Toluene-d8	97.0	87.2-105		%REC	1	11/7/2010 12:50:17 AM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-10

Client Sample ID: FB 1100210
Collection Date: 11/2/2010 2:55:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Toluene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Ethylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Naphthalene	ND	2.0		µg/L	1	11/4/2010 4:27:43 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/4/2010 4:27:43 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/4/2010 4:27:43 AM
Acetone	ND	10		µg/L	1	11/4/2010 4:27:43 AM
Bromobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Bromoform	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Bromomethane	ND	3.0		µg/L	1	11/4/2010 4:27:43 AM
2-Butanone	ND	10		µg/L	1	11/4/2010 4:27:43 AM
Carbon disulfide	ND	10		µg/L	1	11/4/2010 4:27:43 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Chlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Chloroethane	ND	2.0		µg/L	1	11/4/2010 4:27:43 AM
Chloroform	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Chloromethane	ND	3.0		µg/L	1	11/4/2010 4:27:43 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
cis-1,2-DCE	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/4/2010 4:27:43 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Dibromomethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/4/2010 4:27:43 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-10

Client Sample ID: FB 1100210
 Collection Date: 11/2/2010 2:55:00 PM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
2-Hexanone	ND	10		µg/L	1	11/4/2010 4:27:43 AM
Isopropylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/4/2010 4:27:43 AM
Methylene Chloride	ND	3.0		µg/L	1	11/4/2010 4:27:43 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
n-Propylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
sec-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Styrene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
tert-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/4/2010 4:27:43 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/4/2010 4:27:43 AM
Vinyl chloride	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Xylenes, Total	ND	1.5		µg/L	1	11/4/2010 4:27:43 AM
Surr: 1,2-Dichloroethane-d4	102	77.7-113		%REC	1	11/4/2010 4:27:43 AM
Surr: 4-Bromofluorobenzene	105	76.4-106		%REC	1	11/4/2010 4:27:43 AM
Surr: Dibromofluoromethane	111	91.6-125		%REC	1	11/4/2010 4:27:43 AM
Surr: Toluene-d8	94.4	92.3-107		%REC	1	11/4/2010 4:27:43 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-11

Client Sample ID: EB 110210
Collection Date: 11/2/2010 2:50:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Toluene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Ethylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Naphthalene	ND	2.0		µg/L	1	11/4/2010 4:53:47 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/4/2010 4:53:47 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/4/2010 4:53:47 AM
Acetone	ND	10		µg/L	1	11/4/2010 4:53:47 AM
Bromobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Bromoform	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Bromomethane	ND	3.0		µg/L	1	11/4/2010 4:53:47 AM
2-Butanone	ND	10		µg/L	1	11/4/2010 4:53:47 AM
Carbon disulfide	ND	10		µg/L	1	11/4/2010 4:53:47 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Chlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Chloroethane	ND	2.0		µg/L	1	11/4/2010 4:53:47 AM
Chloroform	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Chloromethane	ND	3.0		µg/L	1	11/4/2010 4:53:47 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
cis-1,2-DCE	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/4/2010 4:53:47 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Dibromomethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/4/2010 4:53:47 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-11

Client Sample ID: EB 110210
 Collection Date: 11/2/2010 2:50:00 PM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
2-Hexanone	ND	10		µg/L	1	11/4/2010 4:53:47 AM
Isopropylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/4/2010 4:53:47 AM
Methylene Chloride	ND	3.0		µg/L	1	11/4/2010 4:53:47 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
n-Propylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
sec-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Styrene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
tert-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/4/2010 4:53:47 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/4/2010 4:53:47 AM
Vinyl chloride	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Xylenes, Total	ND	1.5		µg/L	1	11/4/2010 4:53:47 AM
Surr: 1,2-Dichloroethane-d4	105	77.7-113		%REC	1	11/4/2010 4:53:47 AM
Surr: 4-Bromofluorobenzene	109	76.4-106	S	%REC	1	11/4/2010 4:53:47 AM
Surr: Dibromofluoromethane	109	91.6-125		%REC	1	11/4/2010 4:53:47 AM
Surr: Toluene-d8	97.3	92.3-107		%REC	1	11/4/2010 4:53:47 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-12

Client Sample ID: NEOCD Closure 110210
Collection Date: 11/2/2010 2:40:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Aroclor 1221	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Aroclor 1232	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Aroclor 1242	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Aroclor 1248	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Aroclor 1254	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Aroclor 1260	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Surr: Decachlorobiphenyl	82.0	16.9-111		%REC	1	11/6/2010 7:51:05 PM
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	210	10		mg/Kg	1	11/6/2010 12:28:03 PM
Motor Oil Range Organics (MRO)	82	50		mg/Kg	1	11/6/2010 12:28:03 PM
Surr: DNOP	114	61.7-135		%REC	1	11/6/2010 12:28:03 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/10/2010 10:04:09 PM
Surr: BFB	105	93.1-120		%REC	1	11/10/2010 10:04:09 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	8.9	6.0		mg/Kg	20	11/16/2010 8:03:06 AM
Chloride	100	30		mg/Kg	20	11/16/2010 8:03:06 AM
Nitrogen, Nitrate (As N)	14	6.0		mg/Kg	20	11/16/2010 8:03:06 AM
Sulfate	670	30		mg/Kg	20	11/16/2010 8:03:06 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:49:29 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 11:25:20 AM
Barium	300	1.0		mg/Kg	10	11/18/2010 11:26:53 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 11:25:20 AM
Chromium	15	1.5		mg/Kg	5	11/17/2010 11:25:20 AM
Copper	3.6	1.5		mg/Kg	5	11/17/2010 11:25:20 AM
Iron	16000	500		mg/Kg	500	11/18/2010 1:03:26 PM
Lead	8.4	1.3		mg/Kg	5	11/17/2010 11:25:20 AM
Manganese	460	1.0		mg/Kg	10	11/18/2010 11:26:53 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 11:25:20 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 11:25:20 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 11:26:53 AM
Zinc	24	13		mg/Kg	5	11/17/2010 11:25:20 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-12

Client Sample ID: NEOCD Closure 110210
 Collection Date: 11/2/2010 2:40:00 PM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 6:16:23 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 6:16:23 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 6:16:23 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 6:16:23 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 6:16:23 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 6:16:23 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-12

Client Sample ID: NEOCD Closure 110210
Collection Date: 11/2/2010 2:40:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 6:16:23 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 6:16:23 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Surr: 2,4,6-Tribromophenol	78.1	32.2-125		%REC	1	11/11/2010 6:16:23 PM
Surr: 2-Fluorobiphenyl	82.4	29.8-137		%REC	1	11/11/2010 6:16:23 PM
Surr: 2-Fluorophenol	86.2	22.6-131		%REC	1	11/11/2010 6:16:23 PM
Surr: 4-Terphenyl-d14	90.2	23.8-110		%REC	1	11/11/2010 6:16:23 PM
Surr: Nitrobenzene-d5	94.0	29.5-130		%REC	1	11/11/2010 6:16:23 PM
Surr: Phenol-d5	97.8	25.5-127		%REC	1	11/11/2010 6:16:23 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Toluene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-12

Client Sample ID: NEOCD Closure 110210
 Collection Date: 11/2/2010 2:40:00 PM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Naphthalene	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/7/2010 1:18:38 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/7/2010 1:18:38 AM
Acetone	ND	0.75		mg/Kg	1	11/7/2010 1:18:38 AM
Bromobenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Bromoform	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Bromomethane	ND	0.15		mg/Kg	1	11/7/2010 1:18:38 AM
2-Butanone	ND	0.50		mg/Kg	1	11/7/2010 1:18:38 AM
Carbon disulfide	ND	0.50		mg/Kg	1	11/7/2010 1:18:38 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
Chlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Chloroethane	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
Chloroform	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Chloromethane	ND	0.15		mg/Kg	1	11/7/2010 1:18:38 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Dibromomethane	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
2-Hexanone	ND	0.50		mg/Kg	1	11/7/2010 1:18:38 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/7/2010 1:18:38 AM
Methylene chloride	ND	0.15		mg/Kg	1	11/7/2010 1:18:38 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-12

Client Sample ID: NEOCD Closure 110210
Collection Date: 11/2/2010 2:40:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Styrene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
Vinyl chloride	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Xylenes, Total	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
Surr: 1,2-Dichloroethane-d4	93.5	77.8-97.5		%REC	1	11/7/2010 1:18:38 AM
Surr: 4-Bromofluorobenzene	94.2	82.2-105		%REC	1	11/7/2010 1:18:38 AM
Surr: Dibromofluoromethane	98.1	63.7-133		%REC	1	11/7/2010 1:18:38 AM
Surr: Toluene-d8	96.1	87.2-105		%REC	1	11/7/2010 1:18:38 AM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	90	20		mg/Kg	1	11/5/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Trip Blank

Lab Order: 1011126

Collection Date:

Project: OCD Landfarms

Date Received: 11/3/2010

Lab ID: 1011126-13

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Toluene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Ethylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Naphthalene	ND	2.0		µg/L	1	11/4/2010 5:19:50 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/4/2010 5:19:50 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/4/2010 5:19:50 AM
Acetone	ND	10		µg/L	1	11/4/2010 5:19:50 AM
Bromobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Bromoform	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Bromomethane	ND	3.0		µg/L	1	11/4/2010 5:19:50 AM
2-Butanone	ND	10		µg/L	1	11/4/2010 5:19:50 AM
Carbon disulfide	ND	10		µg/L	1	11/4/2010 5:19:50 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Chlorobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Chloroethane	ND	2.0		µg/L	1	11/4/2010 5:19:50 AM
Chloroform	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Chloromethane	ND	3.0		µg/L	1	11/4/2010 5:19:50 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
cis-1,2-DCE	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/4/2010 5:19:50 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Dibromomethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/4/2010 5:19:50 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-13

Client Sample ID: Trip Blank
Collection Date:
Date Received: 11/3/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
2-Hexanone	ND	10		µg/L	1	11/4/2010 5:19:50 AM
Isopropylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/4/2010 5:19:50 AM
Methylene Chloride	ND	3.0		µg/L	1	11/4/2010 5:19:50 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
n-Propylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
sec-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Styrene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
tert-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/4/2010 5:19:50 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/4/2010 5:19:50 AM
Vinyl chloride	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Xylenes, Total	ND	1.5		µg/L	1	11/4/2010 5:19:50 AM
Surr: 1,2-Dichloroethane-d4	108	77.7-113		%REC	1	11/4/2010 5:19:50 AM
Surr: 4-Bromofluorobenzene	102	76.4-106		%REC	1	11/4/2010 5:19:50 AM
Surr: Dibromofluoromethane	113	91.6-125		%REC	1	11/4/2010 5:19:50 AM
Surr: Toluene-d8	97.2	92.3-107		%REC	1	11/4/2010 5:19:50 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-001
Client Sample ID 1011126-01C, CentralOCD 01 110210

Report Date: 12/08/10
Collection Date: 11/02/10 10:15
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 14:50 / kjp
RADIONUCLIDES							
Radium 226	0.4	pCi/g-dry			E903.0		12/06/10 12:18 / eli-ca
Radium 226 precision (±)	0.1	pCi/g-dry			E903.0		12/06/10 12:18 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry			E903.0		12/06/10 12:18 / eli-ca
Radium 228	1.1	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.5	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 MDC	0.8	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-002
Client Sample ID 1011126-02C, Central OCD 02 110210

Report Date: 12/08/10
Collection Date: 11/02/10 11:20
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 14:52 / kjp
RADIONUCLIDES							
Radium 226	0.04	pCi/g-dry				E903.0	12/06/10 12:18 / eli-ca
Radium 226 precision (±)	0.007	pCi/g-dry				E903.0	12/06/10 12:18 / eli-ca
Radium 226 MDC	0.008	pCi/g-dry				E903.0	12/06/10 12:18 / eli-ca
Radium 228	0.04	pCi/g-dry	U			RA-05	11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.03	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca
Radium 228 MDC	0.04	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



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Billings, WY 888-888-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-680-2218

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-003
Client Sample ID 1011126-03C, CentralOCD 03 110210

Report Date: 12/08/10
Collection Date: 11/02/10 11:45
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:05 / kjp
RADIONUCLIDES							
Radium 226	0.5	pCi/g-dry				E903.0	12/08/10 12:18 / eli-ca
Radium 226 precision (±)	0.1	pCi/g-dry				E903.0	12/08/10 12:18 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry				E903.0	12/08/10 12:18 / eli-ca
Radium 228	0.9	pCi/g-dry	U			RA-05	11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.6	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca
Radium 228 MDC	0.9	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-004
Client Sample ID 1011126-04C, CentralOCD 04 110210

Report Date: 12/08/10
Collection Date: 11/02/10 12:10
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:07 / kjp
RADIONUCLIDES							
Radium 226	0.8	pCi/g-dry			E903.0		12/06/10 12:18 / eli-ca
Radium 226 precision (±)	0.1	pCi/g-dry			E903.0		12/06/10 12:18 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry			E903.0		12/06/10 12:18 / eli-ca
Radium 228	0.8	pCi/g-dry	U		RA-05		11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.5	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 MDC	0.8	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-005
Client Sample ID 1011126-05C, NEOCD 01 110210

Report Date: 12/08/10
Collection Date: 11/02/10 13:15
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:08 / kjp
RADIONUCLIDES							
Radium 226	0.8	pCi/g-dry			E903.0		12/06/10 12:18 / eli-ca
Radium 226 precision (±)	0.2	pCi/g-dry			E903.0		12/06/10 12:18 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry			E903.0		12/06/10 12:18 / eli-ca
Radium 228	1.5	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.6	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 MDC	0.8	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-006
Client Sample ID 1011126-06C, NEOCD 02 110210

Report Date: 12/08/10
Collection Date: 11/02/10 13:40
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:10 / kjp
RADIONUCLIDES							
Radium 226	0.6	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 226 precision (±)	0.2	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 228	1.5	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.6	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 MDC	0.9	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-007
Client Sample ID 1011126-07C, NEOCD 03 1102010

Report Date: 12/08/10
Collection Date: 11/02/10 14:00
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:12 / kjp
RADIONUCLIDES							
Radium 226	0.6	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 226 precision (±)	0.2	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 228	1.4	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.6	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 MDC	0.9	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-008
Client Sample ID 1011126-08C, NEOCD 04 110210

Report Date: 12/08/10
Collection Date: 11/02/10 14:30
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:14 / kjp
RADIONUCLIDES							
Radium 226	0.6	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 226 precision (±)	0.2	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 228	1.1	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.6	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 MDC	0.9	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-009
Client Sample ID 1011126-09C, BD 1 110210

Report Date: 12/08/10
Collection Date: 11/02/10
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:16 / kjp
RADIONUCLIDES							
Radium 226	0.6	pCi/g-dry				E903.0	12/06/10 13:49 / eli-ca
Radium 226 precision (±)	0.2	pCi/g-dry				E903.0	12/06/10 13:49 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry				E903.0	12/06/10 13:49 / eli-ca
Radium 228	0.8	pCi/g-dry	U			RA-05	11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.5	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca
Radium 228 MDC	0.8	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-010
Client Sample ID 1011126-12C, NEOCD Closure 110210

Report Date: 12/08/10
Collection Date: 11/02/10 14:40
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:18 / kjp
RADIONUCLIDES							
Radium 226	0.5	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 226 precision (±)	0.1	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 228	1	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.6	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 MDC	0.9	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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QA/QC Summary Report

Client: Hall Environmental
Project: 1011126

Report Date: 12/08/10
Work Order: B10110548

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: C_R140653
Sample ID: B10110548-002A		Sample Matrix Spike				Run: SUB-C140653				12/06/10 12:18
Radium 226	14	pCi/g-dry		98		70	130			
Sample ID: B10110548-002A		Sample Matrix Spike Duplicate				Run: SUB-C140653				12/06/10 12:18
Radium 226	15	pCi/g-dry		103		70	130	8.6	21.3	
Sample ID: LCS-28206		Laboratory Control Sample				Run: SUB-C140653				12/06/10 12:18
Radium 226	1.4	pCi/g-dry		94		70	130			
Sample ID: MB-28206	3	Method Blank				Run: SUB-C140653				12/06/10 12:18
Radium 226	-0.0001	pCi/g-dry								U
Radium 226 precision (±)	0.0001	pCi/g-dry								
Radium 226 MDC	0.0002	pCi/g-dry								

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



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QA/QC Summary Report

Client: Hall Environmental
Project: 1011126

Report Date: 12/08/10
Work Order: B10110548

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: C_28206
Sample ID: LCS-28206		Laboratory Control Sample					Run: SUB-C140336			11/29/10 12:52
Radium 228		1.3	pCi/g-dry	98		70	130			
Sample ID: MB-28206	3	Method Blank					Run: SUB-C140336			11/29/10 12:52
Radium 228		0.0007	pCi/g-dry							U
Radium 228 precision (±)		0.001	pCi/g-dry							
Radium 228 MDC		0.002	pCi/g-dry							
Sample ID: B10110548-002A		Sample Matrix Spike					Run: SUB-C140336			11/29/10 12:52
Radium 228		13	pCi/g-dry	107		70	130			
Sample ID: B10110548-002A		Sample Matrix Spike Duplicate					Run: SUB-C140336			11/29/10 12:52
Radium 228		13	pCi/g-dry	102		70	130	1.4	31.6	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



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QA/QC Summary Report

Client: Half Environmental

Report Date: 12/08/10

Project: 1011126

Work Order: B10110548

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW9012										Batch: 50380
Sample ID: LCS-50380		Laboratory Control Sample					Run: AUTOAN201-B_101109A			11/09/10 14:09
Cyanide, Total		5.15	mg/kg	0.50	103	60	140			
Sample ID: MB-50380		Method Blank					Run: AUTOAN201-B_101109A			11/09/10 14:14
Cyanide, Total		ND	mg/kg	0.5						
Sample ID: B10110548-002AMS		Sample Matrix Spike					Run: AUTOAN201-B_101109A			11/09/10 14:54
Cyanide, Total		5.26	mg/kg	0.50	105	50	150			
Sample ID: B10110548-002AMSD		Sample Matrix Spike					Run: AUTOAN201-B_101109A			11/09/10 14:56
Cyanide, Total		5.30	mg/kg	0.50	106	50	150			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: 1011126-02AMSD		MSD				Batch ID: 24525	Analysis Date: 11/16/2010 4:51:35 AM				
Fluoride	3.751	mg/Kg	0.30	1.5	2.856	59.7	13.2	140	2.31	20	
Nitrogen, Nitrate (As N)	14.49	mg/Kg	0.30	7.5	6.261	110	71.4	132	5.04	20	
Sample ID: MB-24525		MBLK				Batch ID: 24525	Analysis Date: 11/16/2010 3:07:07 AM				
Fluoride	ND	mg/Kg	0.30								
Chloride	ND	mg/Kg	1.5								
Nitrogen, Nitrate (As N)	ND	mg/Kg	0.30								
Sulfate	ND	mg/Kg	1.5								
Sample ID: LCS-24525		LCS				Batch ID: 24525	Analysis Date: 11/16/2010 3:24:31 AM				
Fluoride	1.549	mg/Kg	0.30	1.5	0	103	90	110			
Chloride	13.53	mg/Kg	1.5	15	0	90.2	90	110			
Nitrogen, Nitrate (As N)	6.924	mg/Kg	0.30	7.5	0	92.3	90	110			
Sulfate	27.55	mg/Kg	1.5	30	0	91.8	90	110			
Sample ID: 1011126-02AMS		MS				Batch ID: 24525	Analysis Date: 11/16/2010 4:34:10 AM				
Fluoride	3.665	mg/Kg	0.30	1.5	2.856	54.0	13.2	140			
Nitrogen, Nitrate (As N)	13.77	mg/Kg	0.30	7.5	6.261	100	71.4	132			
Method: EPA Method 418.1: TPH											
Sample ID: 1011126-02BMDS		MSD				Batch ID: 24385	Analysis Date: 11/5/2010				
Petroleum Hydrocarbons, TR	91.18	mg/Kg	20	100	0	91.2	80	120	3.19	20	
Sample ID: MB-24385		MBLK				Batch ID: 24385	Analysis Date: 11/5/2010				
Petroleum Hydrocarbons, TR	ND	mg/Kg	20								
Sample ID: LCS-24385		LCS				Batch ID: 24385	Analysis Date: 11/5/2010				
Petroleum Hydrocarbons, TR	96.90	mg/Kg	20	100	0	96.9	86.8	116			
Sample ID: LCSD-24385		LCSD				Batch ID: 24385	Analysis Date: 11/5/2010				
Petroleum Hydrocarbons, TR	98.32	mg/Kg	20	100	0	98.3	86.8	116	1.45	16.2	
Sample ID: 1011126-02BMS		MS				Batch ID: 24385	Analysis Date: 11/5/2010				
Petroleum Hydrocarbons, TR	88.32	mg/Kg	20	100	0	88.3	80	120			
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-24372		MBLK				Batch ID: 24372	Analysis Date: 11/5/2010 5:35:45 PM				
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-24372		LCS				Batch ID: 24372	Analysis Date: 11/5/2010 6:09:52 PM				
Diesel Range Organics (DRO)	46.05	mg/Kg	10	50	0	92.1	64.6	116			
Sample ID: LCSD-24372		LCSD				Batch ID: 24372	Analysis Date: 11/5/2010 6:44:00 PM				
Diesel Range Organics (DRO)	45.70	mg/Kg	10	50	0	91.4	64.6	116	0.769	17.4	

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1011126-12B MSD		MSD									
Gasoline Range Organics (GRO)	25.20	mg/Kg	5.0	25	0	101	69.2	144	10.7	20.5	
Sample ID: MB-24378		MBLK									
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-24378		LCS									
Gasoline Range Organics (GRO)	25.68	mg/Kg	5.0	25	0	103	95.7	120			
Sample ID: 1011126-12B MS		MS									
Gasoline Range Organics (GRO)	28.05	mg/Kg	5.0	25	0	112	69.2	144			

Method: EPA Method 8082: PCB's

Sample ID: 1011126-02BMSD		MSD									
Aroclor 1260	0.1255	mg/Kg	0.020	0.125	0	100	45	117	2.32	20	
Sample ID: MB-24367		MBLK									
Aroclor 1016	ND	mg/Kg	0.020								
Aroclor 1221	ND	mg/Kg	0.020								
Aroclor 1232	ND	mg/Kg	0.020								
Aroclor 1242	ND	mg/Kg	0.020								
Aroclor 1248	ND	mg/Kg	0.020								
Aroclor 1254	ND	mg/Kg	0.020								
Aroclor 1260	ND	mg/Kg	0.020								
Sample ID: LCS-24367		LCS									
Aroclor 1260	0.09900	mg/Kg	0.020	0.125	0	79.2	38.2	140			
Sample ID: 1011126-02BMS		MS									
Aroclor 1260	0.1284	mg/Kg	0.020	0.125	0	103	45	117			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: 1011126-02BMSD

MSD

Batch ID: 24378 Analysis Date: 11/7/2010 1:15:05 AM

Benzene	0.9250	mg/Kg	0.050	1	0	92.5	62.3	118	1.07	20	
Toluene	0.9231	mg/Kg	0.050	1	0.0154	90.8	76.4	120	2.80	12.5	
Chlorobenzene	0.9122	mg/Kg	0.050	1	0.0063	90.6	78.1	125	0.889	14	
1,1-Dichloroethene	1.072	mg/Kg	0.050	1	0	107	60.9	128	1.92	30.9	
Trichloroethene (TCE)	0.8648	mg/Kg	0.050	1	0	86.5	56.2	102	3.71	21.1	

Sample ID: mb-24378

MBLK

Batch ID: 24378 Analysis Date: 11/7/2010 2:11:46 AM

Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.050								
1,2,4-Trimethylbenzene	ND	mg/Kg	0.050								
1,3,5-Trimethylbenzene	ND	mg/Kg	0.050								
1,2-Dichloroethane (EDC)	ND	mg/Kg	0.050								
1,2-Dibromoethane (EDB)	ND	mg/Kg	0.050								
Naphthalene	ND	mg/Kg	0.10								
1-Methylnaphthalene	ND	mg/Kg	0.20								
2-Methylnaphthalene	ND	mg/Kg	0.20								
Acetone	ND	mg/Kg	0.75								
Bromobenzene	ND	mg/Kg	0.050								
Bromodichloromethane	ND	mg/Kg	0.050								
Bromoform	ND	mg/Kg	0.050								
Bromomethane	ND	mg/Kg	0.15								
2-Butanone	ND	mg/Kg	0.50								
Carbon disulfide	ND	mg/Kg	0.50								
Carbon tetrachloride	ND	mg/Kg	0.10								
Chlorobenzene	ND	mg/Kg	0.050								
Chloroethane	ND	mg/Kg	0.10								
Chloroform	ND	mg/Kg	0.050								
Chloromethane	ND	mg/Kg	0.15								
2-Chlorotoluene	ND	mg/Kg	0.050								
4-Chlorotoluene	ND	mg/Kg	0.050								
cis-1,2-DCE	ND	mg/Kg	0.050								
cis-1,3-Dichloropropene	ND	mg/Kg	0.050								
1,2-Dibromo-3-chloropropane	ND	mg/Kg	0.10								
Dibromochloromethane	ND	mg/Kg	0.050								
Dibromomethane	ND	mg/Kg	0.10								
1,2-Dichlorobenzene	ND	mg/Kg	0.050								
1,3-Dichlorobenzene	ND	mg/Kg	0.050								
1,4-Dichlorobenzene	ND	mg/Kg	0.050								
Dichlorodifluoromethane	ND	mg/Kg	0.050								
1,1-Dichloroethane	ND	mg/Kg	0.10								
1,1-Dichloroethene	ND	mg/Kg	0.050								
1,2-Dichloropropane	ND	mg/Kg	0.050								
1,3-Dichloropropane	ND	mg/Kg	0.050								

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: mb-24378

MBLK

Batch ID: 24378 Analysis Date: 11/7/2010 2:11:46 AM

2,2-Dichloropropane	ND	mg/Kg	0.10
1,1-Dichloropropene	ND	mg/Kg	0.10
Hexachlorobutadiene	ND	mg/Kg	0.10
2-Hexanone	ND	mg/Kg	0.50
Isopropylbenzene	ND	mg/Kg	0.050
4-Isopropyltoluene	ND	mg/Kg	0.050
4-Methyl-2-pentanone	ND	mg/Kg	0.50
Methylene chloride	ND	mg/Kg	0.15
n-Butylbenzene	ND	mg/Kg	0.050
n-Propylbenzene	ND	mg/Kg	0.050
sec-Butylbenzene	ND	mg/Kg	0.050
Styrene	ND	mg/Kg	0.050
tert-Butylbenzene	ND	mg/Kg	0.050
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.050
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.050
Tetrachloroethene (PCE)	ND	mg/Kg	0.050
trans-1,2-DCE	ND	mg/Kg	0.050
trans-1,3-Dichloropropene	ND	mg/Kg	0.050
1,2,3-Trichlorobenzene	ND	mg/Kg	0.10
1,2,4-Trichlorobenzene	ND	mg/Kg	0.050
1,1,1-Trichloroethane	ND	mg/Kg	0.050
1,1,2-Trichloroethane	ND	mg/Kg	0.050
Trichloroethene (TCE)	ND	mg/Kg	0.050
Trichlorofluoromethane	ND	mg/Kg	0.050
1,2,3-Trichloropropane	ND	mg/Kg	0.10
Vinyl chloride	ND	mg/Kg	0.050
Xylenes, Total	ND	mg/Kg	0.10

Sample ID: lcs-24378

LCS

Batch ID: 24378 Analysis Date: 11/7/2010 1:43:27 AM

Benzene	1.009	mg/Kg	0.050	1	0	101	73.3	116
Toluene	1.012	mg/Kg	0.050	1	0	101	90.5	117
Chlorobenzene	1.033	mg/Kg	0.050	1	0.0068	103	93.6	113
1,1-Dichloroethene	1.158	mg/Kg	0.050	1	0	116	68.4	131
Trichloroethene (TCE)	0.9131	mg/Kg	0.050	1	0	91.3	64.6	100

Sample ID: 1011126-02BMS

MS

Batch ID: 24378 Analysis Date: 11/7/2010 1:46:47 AM

Benzene	0.9152	mg/Kg	0.050	1	0	91.5	62.3	118
Toluene	0.8976	mg/Kg	0.050	1	0.0154	88.2	76.4	120
Chlorobenzene	0.9041	mg/Kg	0.050	1	0.0063	89.8	78.1	125
1,1-Dichloroethene	1.052	mg/Kg	0.050	1	0	105	60.9	128
Trichloroethene (TCE)	0.8333	mg/Kg	0.050	1	0	83.3	56.2	102

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: b5

MBLK

Batch ID: R41938 Analysis Date: 11/3/2010 9:04:01 PM

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0
1,2,4-Trimethylbenzene	ND	µg/L	1.0
1,3,5-Trimethylbenzene	ND	µg/L	1.0
1,2-Dichloroethane (EDC)	ND	µg/L	1.0
1,2-Dibromoethane (EDB)	ND	µg/L	1.0
Naphthalene	ND	µg/L	2.0
1-Methylnaphthalene	ND	µg/L	4.0
2-Methylnaphthalene	ND	µg/L	4.0
Acetone	ND	µg/L	10
Bromobenzene	ND	µg/L	1.0
Bromodichloromethane	ND	µg/L	1.0
Bromoform	ND	µg/L	1.0
Bromomethane	ND	µg/L	3.0
2-Butanone	ND	µg/L	10
Carbon disulfide	ND	µg/L	10
Carbon Tetrachloride	ND	µg/L	1.0
Chlorobenzene	ND	µg/L	1.0
Chloroethane	ND	µg/L	2.0
Chloroform	ND	µg/L	1.0
Chloromethane	ND	µg/L	3.0
2-Chlorotoluene	ND	µg/L	1.0
4-Chlorotoluene	ND	µg/L	1.0
cis-1,2-DCE	ND	µg/L	1.0
cis-1,3-Dichloropropene	ND	µg/L	1.0
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0
Dibromochloromethane	ND	µg/L	1.0
Dibromomethane	ND	µg/L	1.0
1,2-Dichlorobenzene	ND	µg/L	1.0
1,3-Dichlorobenzene	ND	µg/L	1.0
1,4-Dichlorobenzene	ND	µg/L	1.0
Dichlorodifluoromethane	ND	µg/L	1.0
1,1-Dichloroethane	ND	µg/L	1.0
1,1-Dichloroethene	ND	µg/L	1.0
1,2-Dichloropropane	ND	µg/L	1.0
1,3-Dichloropropane	ND	µg/L	1.0
2,2-Dichloropropane	ND	µg/L	2.0
1,1-Dichloropropene	ND	µg/L	1.0
Hexachlorobutadiene	ND	µg/L	1.0
2-Hexanone	ND	µg/L	10
Isopropylbenzene	ND	µg/L	1.0
4-Isopropyltoluene	ND	µg/L	1.0

Qualifiers:

E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
NC Non-Chlorinated
R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: b5

MBLK

Batch ID: R41938 Analysis Date: 11/3/2010 9:04:01 PM

4-Methyl-2-pentanone	ND	µg/L	10
Methylene Chloride	ND	µg/L	3.0
n-Butylbenzene	ND	µg/L	1.0
n-Propylbenzene	ND	µg/L	1.0
sec-Butylbenzene	ND	µg/L	1.0
Styrene	ND	µg/L	1.0
tert-Butylbenzene	ND	µg/L	1.0
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0
Tetrachloroethene (PCE)	ND	µg/L	1.0
trans-1,2-DCE	ND	µg/L	1.0
trans-1,3-Dichloropropene	ND	µg/L	1.0
1,2,3-Trichlorobenzene	ND	µg/L	1.0
1,2,4-Trichlorobenzene	ND	µg/L	1.0
1,1,1-Trichloroethane	ND	µg/L	1.0
1,1,2-Trichloroethane	ND	µg/L	1.0
Trichloroethene (TCE)	ND	µg/L	1.0
Trichlorofluoromethane	ND	µg/L	1.0
1,2,3-Trichloropropane	ND	µg/L	2.0
Vinyl chloride	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	1.5

Sample ID: 100ng lcs

LCS

Batch ID: R41938 Analysis Date: 11/3/2010 8:37:59 PM

Benzene	18.51	µg/L	1.0	20	0	92.5	84.6	109
Toluene	18.15	µg/L	1.0	20	0	90.7	81	114
Chlorobenzene	18.43	µg/L	1.0	20	0	92.1	85.2	113
1,1-Dichloroethene	17.36	µg/L	1.0	20	0	86.8	79.6	124
Trichloroethene (TCE)	18.03	µg/L	1.0	20	0	90.1	78.3	102

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8270C: Semivolatiles

Sample ID: 1011126-02Bmsd

MSD

Batch ID: 24447

Analysis Date: 11/11/2010 2:19:31 PM

Acenaphthene	1.395	mg/Kg	0.20	1.67	0	83.5	33.2	123	4.28	16.2	
4-Chloro-3-methylphenol	2.954	mg/Kg	0.50	3.33	0	88.7	17.4	119	10.7	20.2	
2-Chlorophenol	3.036	mg/Kg	0.20	3.33	0	91.2	25.3	117	8.96	30.6	
1,4-Dichlorobenzene	1.385	mg/Kg	0.20	1.67	0	83.0	24.6	111	3.01	20	
2,4-Dinitrotoluene	1.964	mg/Kg	0.50	1.67	0	118	29.4	137	5.55	30.7	
N-Nitrosodi-n-propylamine	1.385	mg/Kg	0.20	1.67	0	82.9	26.9	109	1.58	25.7	
4-Nitrophenol	3.494	mg/Kg	0.20	3.33	0	105	13.7	165	6.08	43.7	
Pentachlorophenol	2.770	mg/Kg	0.40	3.33	0	83.2	26.6	117	4.00	24.2	
Phenol	2.997	mg/Kg	0.20	3.33	0	90.0	26.6	105	5.04	29.5	
Pyrene	1.362	mg/Kg	0.20	1.67	0	81.6	25.8	117	1.55	32.1	
1,2,4-Trichlorobenzene	1.540	mg/Kg	0.20	1.67	0	92.2	30.8	119	5.80	19.5	

Sample ID: mb-24447

MBLK

Batch ID: 24447

Analysis Date: 11/11/2010 11:51:44 AM

Acenaphthene	ND	mg/Kg	0.20								
Acenaphthylene	ND	mg/Kg	0.20								
Aniline	ND	mg/Kg	0.20								
Anthracene	ND	mg/Kg	0.20								
Azobenzene	ND	mg/Kg	0.20								
Benz(a)anthracene	ND	mg/Kg	0.20								
Benzo(a)pyrene	ND	mg/Kg	0.20								
Benzo(b)fluoranthene	ND	mg/Kg	0.20								
Benzo(g,h,i)perylene	ND	mg/Kg	0.20								
Benzo(k)fluoranthene	ND	mg/Kg	0.20								
Benzoic acid	ND	mg/Kg	0.50								
Benzyl alcohol	ND	mg/Kg	0.20								
Bis(2-chloroethoxy)methane	ND	mg/Kg	0.20								
Bis(2-chloroethyl)ether	ND	mg/Kg	0.20								
Bis(2-chloroisopropyl)ether	ND	mg/Kg	0.20								
Bis(2-ethylhexyl)phthalate	ND	mg/Kg	0.50								
4-Bromophenyl phenyl ether	ND	mg/Kg	0.20								
Butyl benzyl phthalate	ND	mg/Kg	0.20								
Carbazole	ND	mg/Kg	0.20								
4-Chloro-3-methylphenol	ND	mg/Kg	0.50								
4-Chloroaniline	ND	mg/Kg	0.50								
2-Chloronaphthalene	ND	mg/Kg	0.25								
2-Chlorophenol	ND	mg/Kg	0.20								
4-Chlorophenyl phenyl ether	ND	mg/Kg	0.20								
Chrysene	ND	mg/Kg	0.20								
Di-n-butyl phthalate	ND	mg/Kg	0.50								
Di-n-octyl phthalate	ND	mg/Kg	0.25								
Dibenz(a,h)anthracene	ND	mg/Kg	0.20								
Dibenzofuran	ND	mg/Kg	0.20								
1,2-Dichlorobenzene	ND	mg/Kg	0.20								
1,3-Dichlorobenzene	ND	mg/Kg	0.20								
1,4-Dichlorobenzene	ND	mg/Kg	0.20								

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8270C: Semivolatiles

Sample ID: mb-24447

MBLK

Batch ID: 24447 Analysis Date: 11/11/2010 11:51:44 AM

3,3'-Dichlorobenzidine	ND	mg/Kg	0.25
Diethyl phthalate	ND	mg/Kg	0.20
Dimethyl phthalate	ND	mg/Kg	0.20
2,4-Dichlorophenol	ND	mg/Kg	0.40
2,4-Dimethylphenol	ND	mg/Kg	0.30
4,6-Dinitro-2-methylphenol	ND	mg/Kg	0.50
2,4-Dinitrophenol	ND	mg/Kg	0.40
2,4-Dinitrotoluene	ND	mg/Kg	0.50
2,6-Dinitrotoluene	ND	mg/Kg	0.50
Fluoranthene	ND	mg/Kg	0.20
Fluorene	ND	mg/Kg	0.20
Hexachlorobenzene	ND	mg/Kg	0.20
Hexachlorobutadiene	ND	mg/Kg	0.20
Hexachlorocyclopentadiene	ND	mg/Kg	0.20
Hexachloroethane	ND	mg/Kg	0.20
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.20
Isophorone	ND	mg/Kg	0.50
2-Methylnaphthalene	ND	mg/Kg	0.20
2-Methylphenol	ND	mg/Kg	0.50
3+4-Methylphenol	ND	mg/Kg	0.20
N-Nitrosodi-n-propylamine	ND	mg/Kg	0.20
N-Nitrosodiphenylamine	ND	mg/Kg	0.20
Naphthalene	ND	mg/Kg	0.20
2-Nitroaniline	ND	mg/Kg	0.20
3-Nitroaniline	ND	mg/Kg	0.20
4-Nitroaniline	ND	mg/Kg	0.40
Nitrobenzene	ND	mg/Kg	0.50
2-Nitrophenol	ND	mg/Kg	0.20
4-Nitrophenol	ND	mg/Kg	0.20
Pentachlorophenol	ND	mg/Kg	0.40
Phenanthrene	ND	mg/Kg	0.20
Phenol	ND	mg/Kg	0.20
Pyrene	ND	mg/Kg	0.20
Pyridine	ND	mg/Kg	0.50
1,2,4-Trichlorobenzene	ND	mg/Kg	0.20
2,4,5-Trichlorophenol	ND	mg/Kg	0.20
2,4,6-Trichlorophenol	ND	mg/Kg	0.20

Sample ID: lcs-24447

LCS

Batch ID: 24447 Analysis Date: 11/11/2010 12:21:16 PM

Acenaphthene	1.619	mg/Kg	0.20	3.34	0	48.5	40	106
4-Chloro-3-methylphenol	3.579	mg/Kg	0.50	6.66	0	53.7	31.9	112
2-Chlorophenol	3.441	mg/Kg	0.20	6.66	0	51.7	31.2	110
1,4-Dichlorobenzene	1.531	mg/Kg	0.20	3.34	0	45.8	32.5	105
2,4-Dinitrotoluene	2.364	mg/Kg	0.50	3.34	0	70.8	38.2	108
N-Nitrosodi-n-propylamine	1.516	mg/Kg	0.20	3.34	0	45.4	30.9	98.9

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8270C: Semivolatiles

Sample ID: lcs-24447

LCS

Batch ID: 24447 Analysis Date: 11/11/2010 12:21:16 PM

4-Nitrophenol	4.041	mg/Kg	0.20	6.66	0	60.7	32.4	114			
Pentachlorophenol	2.854	mg/Kg	0.40	6.66	0	42.9	30.4	101			
Phenol	3.182	mg/Kg	0.20	6.66	0	47.8	27.9	105			
Pyrene	1.860	mg/Kg	0.20	3.34	0	55.7	31.9	103			
1,2,4-Trichlorobenzene	1.655	mg/Kg	0.20	3.34	0	49.6	33.1	112			

Sample ID: 1011126-02Bms

MS

Batch ID: 24447 Analysis Date: 11/11/2010 1:49:50 PM

Acenaphthene	1.456	mg/Kg	0.20	1.67	0	87.2	33.2	123			
4-Chloro-3-methylphenol	3.289	mg/Kg	0.50	3.33	0	98.8	17.4	119			
2-Chlorophenol	3.321	mg/Kg	0.20	3.33	0	99.7	25.3	117			
1,4-Dichlorobenzene	1.428	mg/Kg	0.20	1.67	0	85.5	24.6	111			
2,4-Dinitrotoluene	2.076	mg/Kg	0.50	1.67	0	124	29.4	137			
N-Nitrosodi-n-propylamine	1.407	mg/Kg	0.20	1.67	0	84.2	26.9	109			
4-Nitrophenol	3.713	mg/Kg	0.20	3.33	0	111	13.7	165			
Pentachlorophenol	2.883	mg/Kg	0.40	3.33	0	86.6	26.6	117			
Phenol	3.152	mg/Kg	0.20	3.33	0	94.7	26.6	105			
Pyrene	1.384	mg/Kg	0.20	1.67	0	82.9	25.8	117			
1,2,4-Trichlorobenzene	1.632	mg/Kg	0.20	1.67	0	97.7	30.8	119			

Method: EPA Method 7471: Mercury

Sample ID: 1011126-02AMSD

MSD

Batch ID: 24471 Analysis Date: 11/11/2010 1:31:22 PM

Mercury	0.3132	mg/Kg	0.033	0.167	0.035	167	75	125	37.7	20	SR
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Sample ID: MB-24471

MBLK

Batch ID: 24471 Analysis Date: 11/11/2010 1:22:36 PM

Mercury	ND	mg/Kg	0.033								
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Sample ID: LCS-24471

LCS

Batch ID: 24471 Analysis Date: 11/11/2010 1:24:20 PM

Mercury	0.1719	mg/Kg	0.033	0.167	0	103	80	120			
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Sample ID: 1011126-02AMS

MS

Batch ID: 24471 Analysis Date: 11/11/2010 1:29:35 PM

Mercury	0.2139	mg/Kg	0.033	0.167	0.035	107	75	125			
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Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 6010B: Soil Metals

Sample ID: 1011126-02AMSD

MSD

Batch ID: 24461

Analysis Date: 11/17/2010 10:08:42 AM

Arsenic	25.86	mg/Kg	13	24.7	3.856	89.1	75	125	6.43	20	
Cadmium	23.48	mg/Kg	0.50	24.7	0	95.1	75	125	2.04	20	
Chromium	39.77	mg/Kg	1.5	24.7	20.5	78.0	75	125	4.57	20	
Copper	42.36	mg/Kg	1.5	24.7	21.5	84.4	75	125	1.87	20	
Lead	29.70	mg/Kg	1.3	24.7	8.612	85.4	75	125	6.53	20	
Selenium	ND	mg/Kg	13	24.7	0	45.8	75	125	0	20	S
Silver	23.23	mg/Kg	1.3	24.7	0	94.0	75	125	2.51	20	
Zinc	92.41	mg/Kg	13	24.7	95.88	-14.1	75	125	16.9	20	S

Sample ID: MB-24461

MBLK

Batch ID: 24461

Analysis Date: 11/17/2010 9:12:03 AM

Arsenic	ND	mg/Kg	2.5								
Barium	ND	mg/Kg	0.10								
Cadmium	ND	mg/Kg	0.10								
Chromium	ND	mg/Kg	0.30								
Copper	ND	mg/Kg	0.30								
Iron	2.148	mg/Kg	1.0								
Lead	ND	mg/Kg	0.25								
Manganese	ND	mg/Kg	0.10								
Selenium	ND	mg/Kg	2.5								
Silver	ND	mg/Kg	0.25								
Uranium	ND	mg/Kg	5.0								
Zinc	ND	mg/Kg	2.5								

Sample ID: LCS-24461

LCS

Batch ID: 24461

Analysis Date: 11/17/2010 9:15:17 AM

Arsenic	25.47	mg/Kg	2.5	25	0	102	80	120			
Barium	24.11	mg/Kg	0.10	25	0	96.4	80	120			
Cadmium	24.34	mg/Kg	0.10	25	0	97.4	80	120			
Chromium	24.90	mg/Kg	0.30	25	0	99.6	80	120			
Copper	26.09	mg/Kg	0.30	25	0.0945	104	80	120			
Iron	28.43	mg/Kg	1.0	25	2.148	105	80	120			B
Lead	23.93	mg/Kg	0.25	25	0	95.7	80	120			
Manganese	24.24	mg/Kg	0.10	25	0	97.0	80	120			
Selenium	24.31	mg/Kg	2.5	25	0.925	93.5	80	120			
Silver	24.28	mg/Kg	0.25	25	0.0238	97.0	80	120			
Uranium	26.81	mg/Kg	5.0	25	0	107	80	120			
Zinc	24.83	mg/Kg	2.5	25	0.5498	97.1	80	120			

Sample ID: 1011126-02AMS

MS

Batch ID: 24461

Analysis Date: 11/17/2010 10:02:13 AM

Arsenic	27.58	mg/Kg	13	24.75	3.856	95.9	75	125			
Cadmium	23.00	mg/Kg	0.50	24.75	0	93.0	75	125			
Chromium	41.63	mg/Kg	1.5	24.75	20.5	85.4	75	125			
Copper	41.57	mg/Kg	1.5	24.75	21.5	81.1	75	125			
Lead	27.82	mg/Kg	1.3	24.75	8.612	77.6	75	125			
Selenium	ND	mg/Kg	13	24.75	0	42.0	75	125			S
Silver	22.65	mg/Kg	1.3	24.75	0	91.5	75	125			
Zinc	78.01	mg/Kg	13	24.75	95.88	-72.2	75	125			S

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU

Date Received:

11/3/2010

Work Order Number 1011126

Received by: AMF

Sample ID labels checked by:

Checklist completed by:

Signature

Date

Initials

Matrix:

Carrier name Client drop-off

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐	Not Shipped ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☒	
Chain of custody present?	Yes ☒	No ☐		
Chain of custody signed when relinquished and received?	Yes ☒	No ☐		
Chain of custody agrees with sample labels?	Yes ☒	No ☐		
Samples in proper container/bottle?	Yes ☒	No ☐		
Sample containers intact?	Yes ☒	No ☐		
Sufficient sample volume for indicated test?	Yes ☒	No ☐		
All samples received within holding time?	Yes ☒	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☒	No ☐	Number of preserved bottles checked for pH: _____
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☒	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒	<2 >12 unless noted below.

2.4°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Friday, November 04, 2011 12:22 PM
To: VanHorn, Kristen, NMENV
Cc: 'Riege, Ed'
Subject: Temporary NE Landfarm Closure Letter
Attachments: Land Farm Background Review 11-4-2011.pdf

Kristen:

Please find attached the OCD's Temporary NE Landfarm Closure Letter.

The permitted or "Centralized Landfarm" shall conform to the Rule 36 requirements in the existing discharge permit and if the operator after environmental testing believes the contents may also be considered for "Beneficial Reuse" at the facility, may provide supporting documentation based on the final developed table requested in the attached letter. I did recommend to Mr. Riege on Tuesday during a phone call that soils beneficially reused at the facility should not be stockpiled or concentrated in locations at the facility as they could become point sources someday and subject to RCRA and OCD closure issues.

Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us

Website: <http://www.emnrd.state.nm.us/ocd/>

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<http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental>)



New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

John H. Bemis
Cabinet Secretary-Designate

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

Jami Bailey
Division Director
Oil Conservation Division



November 4, 2011

Mr. Ed Riege
Environmental Manager
Western Refining Southwest, Inc. - Gallup Refinery
Route 3 Box 7
Gallup, New Mexico 87301

Re: Temporary NE Landfarm Closure and Final Baseline and Alternate Beneficial Reuse Soil Concentrations: Western Refining Southwest, Inc. - Gallup Refinery (GW-032) UL "H", Section 28, Township 15 North, Range 15 West, NMPM McKinley County, New Mexico

Dear Mr. Riege:

The New Mexico Oil Conservation Division (OCD) has completed its review of the above subject related letter with attachments dated September 12, 2011. There are two landfarms at the facility: 1) Temporary NE Landfarm; and 2) Centralized Landfarm (OCD permit). The former requires a closure plan submittal under the OCD permit.

The OCD has participated in several telephone conference calls with Western Refining Southwest, Inc. (Western) and New Mexico Environment Department related to the closure plan request (Section 16(F)) for the Temporary NE Landfarm and development of baseline (OCD background limits for the permitted landfarm) environmental limits (Table). In addition, during the development of baseline limits, Western requested "Beneficial Reuse" of the soil contents in the Temporary NE Landfarm for stabilization of the evaporation pond berms at the facility, if soil meets environmental baseline limits. Based on the Table, Western could use the "Alternate Beneficial Reuse Screening Concentrations" (ABRSCs) list in the Table with the exceptions and/or requirements listed below.

The OCD hereby approves the closure of the Temporary NE Landfarm and Beneficial Reuse of remediated soils with the conditions listed below.

Western shall provide acceptable environmental laboratory data results that meet the "Alternate Beneficial Reuse Screening Concentrations" (ABRSCs) in the Table to the OCD for final approval in advance of any soil removal activities. The Table with ABRSCs must be revised to list the OCD Rule 36 "Small Landfarm" requirements: TPH (2500 mg/kg); Benzene (0.2 mg/kg); BTEX (50 mg/kg); and Chlorides (500 ppm). Also, OCD requires that Western use Best Management Practices to ensure when soils stained with hydrocarbons, or olfactory senses confirm contamination is present, the contaminated soils will be properly managed before final disposition. A record shall be kept of the volume of any soils with final disposition related to Best Management Practices.

Mr. Ed Riege
Gallup Refinery
November 4, 2011

Please contact me at (505) 476-3490 or CarlJ.Chavez@state.nm.us if you have questions. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Carl J. Chavez", with a stylized flourish at the end.

Carl J. Chavez
Environmental Engineer

CJC/cjc

Xc: GW-032 Well File "Landfarms"
Kristen van Horn, NMED- Hazardous Waste Bureau
OCD District Office

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Thursday, October 27, 2011 4:53 PM
To: Riege, Ed
Subject: Gallup Refinery (GW-032) Temporary LFarm Closure Submittal & Chloride Limit and Use of Limits for Permitted LFarm

Ed:

Good afternoon. Please give me a call to discuss your most recent submittal. I think the Chloride limit should be 500 ppm and not 5000 ppm.

I need to verbally discuss the path forward after the limits are established? I think that the Alternate Beneficial Reuse Screening Concentrations address the closure of the temp. landfarm and reuse under RCRA/WQCC..... However...

The permanent landfarm will be dropping out of the new OCD DP and Western is required to apply with the appropriate OCD Landfarm Form to get it permitted separately under OCD Regulations. The current OCD discharge permit reflects the most recent Rule 36 landfarm requirements already, but Western must still permit any non-WQCC related oil and gas regulated systems, i.e., landfarms, evaporation ponds, below grade tanks, etc. under OCD oil and gas regulations. It would appear that the commercial zoning of the property and RCRA component may affect the final closure of the permitted landfarm. However, if the Alternate Beneficial Reuse Screening Concentrations are approved, these limits could not serve as true background under OCD Rule 36 cleanup to the greater of background vs. PQL and/or 20.6.2.3101 NMAC. The Rule 36 operating, reuse of the landfarm, and closure would be subject to Rule 36.....

Some discussion of the permitted landfarm is needed based on the submittal and to flesh out any remaining issues with your submittal.

Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us

Website: <http://www.emnrd.state.nm.us/ocd/>

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<http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental>)

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, September 20, 2011 10:38 AM
To: Chavez, Carl J, EMNRD; Grant Price
Cc: Riege, Ed; VanHorn, Kristen, NMENV; Cobrain, Dave, NMENV; VonGonten, Glenn, EMNRD
Subject: RE: Western Refining - OCD Landfarms/Proposed Background Values

Ed, et al.:

The OCD is in receipt of the final baseline and alternative beneficial reuse correspondence dated September 12, 2011.

The OCD will respond soon. Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us

Website: <http://www.emnrd.state.nm.us/ocd/>

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<http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental>

From: Chavez, Carl J, EMNRD
Sent: Tuesday, August 16, 2011 4:51 PM
To: 'Grant Price'
Cc: Riege, Ed; VanHorn, Kristen, NMENV; Cobrain, Dave, NMENV; VonGonten, Glenn, EMNRD
Subject: RE: Western Refining - OCD Landfarms/Proposed Background Values

Ed and Grant:

The agencies have reviewed the draft document provided during the meeting in Santa Fe on August 10, 2011.

Please add the RCRA cleanup criteria column to the table.

One comment discussed with Ed Riege during the meeting was the 20x dilution for the WQCC 20.6.2.3103 inorganics (i.e., chlorides, fluorides, sulfate.....). Please be sure to add an OCD Small Landfarm column for Chlorides (500 ppm), TPH, etc. in the table along with the RCRA cleanup criteria column.

Also, the cover letter will request closure of the temporary landfarm (NE Landfarm), but also post any exceedences to our criteria based on your review from the NE landfarm sampling for final consideration by the OCD.

Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/ocd/index.htm>

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<http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental>)

From: Grant Price [<mailto:gprice@trihydro.com>]
Sent: Thursday, July 14, 2011 3:22 PM
To: Chavez, Carl J, EMNRD
Cc: Riege, Ed
Subject: Western Refining - OCD Landfarms/Proposed Background Values

Hi Carl,

The Proposed Background Value Table and the Northeast Landfarm Closure Evaluation Table have been attached for your review. These are the same tables that Ed sent to you yesterday, they have just been formatted so they're a little easier to read. I've also attached a flow chart to accompany the Northeast Landfarm Closure Evaluation Table that is meant to help us walk through the soil disposal options and criteria. I have intentionally left the "draft" stamp on these documents; I would like to have the opportunity to discuss them with you and Ed prior to "finalization" so that we can make any necessary edits. Hardcopies of the attached documents are being shipped today.

Thanks,

Grant Price
Geologist



1252 Commerce Drive
Laramie, Wyoming 82070
307/745-7474 (phone)
307/745-7729 (fax)
gprice@trihydro.com
www.trihydro.com

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September 12, 2011

Mr. Carl J. Chavez
Environmental Engineer
New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Final Baseline and Alternate Beneficial Reuse Soil Concentrations, Oil Conservation Division
Landfarms, Western Refining Company Southwest, Inc., Gallup Refinery, Gallup, New Mexico

Dear Mr. Chavez:

Western Refining Company's Gallup Refinery (Gallup) is submitting this correspondence to present the baseline and beneficial reuse soil concentrations for Gallup's Oil Conservation Division (OCD) landfarms. A draft submittal presenting the proposed concentrations was submitted to OCD via email on July 14, 2011. The proposed concentrations were discussed with New Mexico Environment Department (NMED) and OCD during a teleconference on August 3, 2011 and a meeting in Santa Fe, New Mexico on August 10, 2011. This correspondence incorporates changes to the baseline/beneficial reuse concentrations resulting from the above-referenced teleconference and meeting.

Gallup's OCD Discharge Permit GW-032 (Discharge Permit) allows for comparison to baseline¹ soil concentrations if they are higher than applicable soil screening standards. To date, OCD baseline soil concentrations for Gallup's OCD landfarms have not been established. During 2009, Gallup worked with OCD to determine an appropriate baseline sampling approach. Based on this approach, a five-point composite soil sample was collected on February 17, 2010, from approximately 6 to 12 inches below ground surface at locations illustrated on Figure 1. This data was submitted to OCD for approval via email on February 22, 2011. In an email dated February 24, 2011, OCD agreed that the sample locations would suffice for the landfarms listed in the Discharge Permit. Additionally, OCD suggested that baseline concentrations should be the greater of the detected concentration or the Practical Quantitation Limit (PQL) listed in the laboratory analytical report. OCD requested that Gallup finalize the baseline concentrations and submit them to OCD by March 24, 2011.

¹ The Discharge Permit uses the term "background" instead of "baseline". However, to avoid confusion with potential RCRA background concentrations, OCD requested that the concentrations in this submittal be referred to as "baseline" concentrations.

Gallup intended to submit finalized baseline concentrations by March 24, 2011, as requested. However, subsequently, it was discovered that certain analytes requiring analysis per the Discharge Permit are not included in the February 17, 2010 baseline data set. Therefore, Gallup requested that an additional baseline sample be collected and incorporated into the finalized baseline concentrations. In an email to OCD dated March 7, 2011, Gallup proposed procedures for collecting the additional baseline sample. In summary, the sample would be collected from the same location as the February 17, 2010 sample utilizing the same procedures. The sample would be analyzed for the analytes listed in Subsections A and B of 20.6.2.3103 NMAC (NMAC 3101 list). OCD approved this approach in an email dated March 8, 2011.

The above-referenced additional baseline sample (sample ID "BG-NE-033011") was collected by Trihydro Corporation (Trihydro) on March 30, 2011 and analyzed for the NMAC 3103 list. To verify that the baseline data set is representative of the entire site, two additional samples were collected on the same date (BG-W-033011 and BG-S-033011). These additional samples were collected in areas that have not been impacted by refinery operations, and were collected utilizing the same procedures described above. Soil destined for Gallup's OCD Landfarms may potentially come from anywhere on refinery property. Therefore, Gallup believes it is appropriate to include data obtained from Samples BG-W-033011 and BG-S-033011 in the baseline soil concentration evaluation as these soils may be representative of soil treated at Gallup's OCD Landfarms. This approach was explained to OCD after the draft submittal presenting the proposed concentrations was provided to OCD via email on July 14, 2011. OCD agreed that the additional samples (BG-W-033011 and BG-S-033011) could be included in the baseline concentration evaluation. Locations of the three March 2011 baseline soil samples are illustrated on Figure 2. The samples were hand-delivered to Hall Environmental Analysis Laboratory of Albuquerque, New Mexico on March 31, 2011. Trihydro conducted a Tier II data validation on the March 2011 data set, and no data were rejected as a result of the data validation. The data validation is provided as Attachment A. Soil sampling logs prepared by field personnel are provided as Attachment B. Analytical reports of the February 2010 data set and the March 2011 data set are provided as Attachment C.

The baseline data are summarized in Table 1. If an analyte was not detected at a particular baseline sample location, the PQL was utilized as the "Sample Baseline Concentration". The average concentration of the available data for each analyte is utilized as the "Final Baseline Concentration".

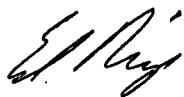
During the August 3, 2011 teleconference and the August 10, 2011 meeting, the potential to beneficially reuse soil for on-site applications was also discussed. Per the Discharge Permit, if landfarm soil concentrations do not exceed Final Baseline Concentrations, Gallup may beneficially reuse landfarm soil. Gallup and OCD also agreed that alternate risk-based screening levels may be utilized to determine whether or not landfarm soil may be beneficially reused in the event that the Final Baseline Concentrations are exceeded. Three alternate screening levels were agreed upon:

- NMED Construction Worker Soil Screening Standards
- OCD Form C-137 EZ (Registration/Final Closure Report For Small Landfarm) Screening Standards
- NMAC 20.6.2.3103 Screening Standards with a 20 X dilution factor

During a phone call between Trihydro and OCD on August 18, 2011, it was agreed that the highest of the above-mentioned screening standards would be used to determine if landfarm soil may be beneficially reused when Final Baseline Concentrations are exceeded. These concentrations are presented in Table 1 as "Alternate Beneficial Reuse Screening Concentrations" (ABRSCs). Analytes that don't have an ABRSC based on the three above-mentioned alternate screening standards (i.e. screening levels are not available for the particular analyte in any of the three screening standards) are shown as "NA" (data not available). If Gallup intends to reuse soil that exceeds Final Baseline Concentrations but does not exceed the ABRSCs, Gallup will cover the reused soil with a minimum of 1 foot of clean soil unless OCD approval has been obtained to reuse soil without a clean cover.

Gallup intends to utilize the Final Baseline Concentrations and the ABRSCs included in this correspondence for comparison with Gallup's OCD landfarm soil samples. These screening standards may also be used for other OCD-related evaluations, as applicable. If you have any questions or comments, please do not hesitate to call me at (505) 722-0217.

Sincerely,
Western Refining Company



Ed Riege
Environmental Manager

697-039-002

Attachments

cc: C. Johnson, Western Refining
G. Price, Trihydro Corporation
K. Van Horn, NMED

TABLE 1. FINAL BASELINE AND ALTERNATE BENEFICIAL REUSE SOIL CONCENTRATIONS , OIL CONSERVATION DIVISION LANDFARMS
WESTERN REFINING SOUTHWEST, GALLUP REFINERY, GALLUP, NEW MEXICO

Analyte	Analytical Method	Reporting Units	Sample ID "Background" Collected February 2010			Sample ID "BG-NE-033011" Collected March 2011			Sample ID "BG-W-033011" Collect March 2011			Sample ID "BG-S-033011" Collected March 2011			Final Baseline Concentration	Alternate Beneficial Reuse Screening Concentration
			Result	PQL	Sample Baseline Concentration	Result	PQL	Sample Baseline Concentration	Result	PQL	Sample Baseline Concentration	Result	PQL	Sample Baseline Concentration		
2,4,5-Trichlorophenol	SW8270C	mg/kg	ND	0.200	0.200	ND	0.200	0.200	NA	NA	NA	NA	NA	NA	0.200	23800
2,4,6-Trichlorophenol	SW8270C	mg/kg	ND	0.200	0.200	ND	0.200	0.200	NA	NA	NA	NA	NA	NA	0.200	238
2,4-Dichlorophenol	SW8270C	mg/kg	ND	0.400	0.400	ND	0.400	0.400	NA	NA	NA	NA	NA	NA	0.400	715
2,4-Dimethylphenol	SW8270C	mg/kg	ND	0.300	0.300	ND	0.300	0.300	NA	NA	NA	NA	NA	NA	0.300	4760
2,4-Dinitrophenol	SW8270C	mg/kg	ND	0.400	0.400	ND	0.400	0.400	NA	NA	NA	NA	NA	NA	0.400	476
2-Chlorophenol	SW8270C	mg/kg	ND	0.200	0.200	ND	0.200	0.200	NA	NA	NA	NA	NA	NA	0.200	1550
2-Methylphenol	SW8270C	mg/kg	ND	0.500	0.500	ND	0.500	0.500	NA	NA	NA	NA	NA	NA	0.500	0.1
2-Nitrophenol	SW8270C	mg/kg	ND	0.200	0.200	ND	0.200	0.200	NA	NA	NA	NA	NA	NA	0.200	0.1
3+4-Methylphenol	SW8270C	mg/kg	ND	0.200	0.200	ND	0.200	0.200	NA	NA	NA	NA	NA	NA	0.200	0.1
4,6-Dinitro-2-methylphenol	SW8270C	mg/kg	ND	0.500	0.500	ND	0.500	0.500	NA	NA	NA	NA	NA	NA	0.500	23.8
4-Chloro-3-methylphenol	SW8270C	mg/kg	ND	0.500	0.500	ND	0.500	0.500	NA	NA	NA	NA	NA	NA	0.500	0.1
4-Nitrophenol	SW8270C	mg/kg	ND	0.200	0.200	ND	0.250	0.250	NA	NA	NA	NA	NA	NA	0.225	0.1
Pentachlorophenol	SW8270C	mg/kg	ND	0.400	0.400	ND	0.400	0.400	NA	NA	NA	NA	NA	NA	0.400	1030
Phenol	SW8270C	mg/kg	ND	0.200	0.200	ND	0.200	0.200	NA	NA	NA	NA	NA	NA	0.200	68800
1-Methylnaphthalene	SW8310/8260B	mg/kg	NA	NA	NA	ND	0.250	0.250	NA	NA	NA	NA	NA	NA	0.200*	0.6
2-Methylnaphthalene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.250	0.250	NA	NA	NA	NA	NA	NA	0.200*	0.6
Acenaphthene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.250	0.250	NA	NA	NA	NA	NA	NA	0.200*	18600
Acenaphthylene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.250	0.250	NA	NA	NA	NA	NA	NA	0.200*	0.6
Anthracene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.015	0.015	NA	NA	NA	NA	NA	NA	0.200*	66800
Benzo(a)anthracene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.010	0.010	NA	NA	NA	NA	NA	NA	0.200*	213
Benzo(a)pyrene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.010	0.010	NA	NA	NA	NA	NA	NA	0.200*	21.3
Benzo(b)fluoranthene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.010	0.010	NA	NA	NA	NA	NA	NA	0.200*	213
Benzo(g,h,i)perylene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.010	0.010	NA	NA	NA	NA	NA	NA	0.200*	0.6
Benzo(k)fluoranthene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.010	0.010	NA	NA	NA	NA	NA	NA	0.200*	2060
Chrysene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.011	0.011	NA	NA	NA	NA	NA	NA	0.200*	20600
Dibenz(a,h)anthracene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.010	0.010	NA	NA	NA	NA	NA	NA	0.200*	21.3
Fluoranthene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.020	0.020	NA	NA	NA	NA	NA	NA	0.200*	8910
Fluorene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.030	0.030	NA	NA	NA	NA	NA	NA	0.200*	8910
Indeno(1,2,3-c,d)pyrene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.100	0.100	NA	NA	NA	NA	NA	NA	0.200*	213
Naphthalene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.250	0.250	NA	NA	NA	NA	NA	NA	0.200*	702
Phenanthrene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.015	0.015	NA	NA	NA	NA	NA	NA	0.200*	7150
Pyrene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.015	0.015	NA	NA	NA	NA	NA	NA	0.200*	6680
Cyanide	SW9012	mg/kg	ND	0.500	0.500	ND	0.025	0.025	NA	NA	NA	NA	NA	NA	0.425	6190
Diesel Range Organics (DRO)	SW8015	mg/kg	ND	10.000	10.000	NA	0.350	0.350	NA	NA	NA	NA	NA	NA	10.000	NA
Gasoline Range Organics (GRO)	SW8015	mg/kg	ND	5.000	5.000	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.000	NA
Total BTEX	SW8260B	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.250	50
Petroleum Hydrocarbons, TR	E418.1	mg/kg	ND	20.000	20.000	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.000	2500
DRO+GRO	SW8015	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.000	500

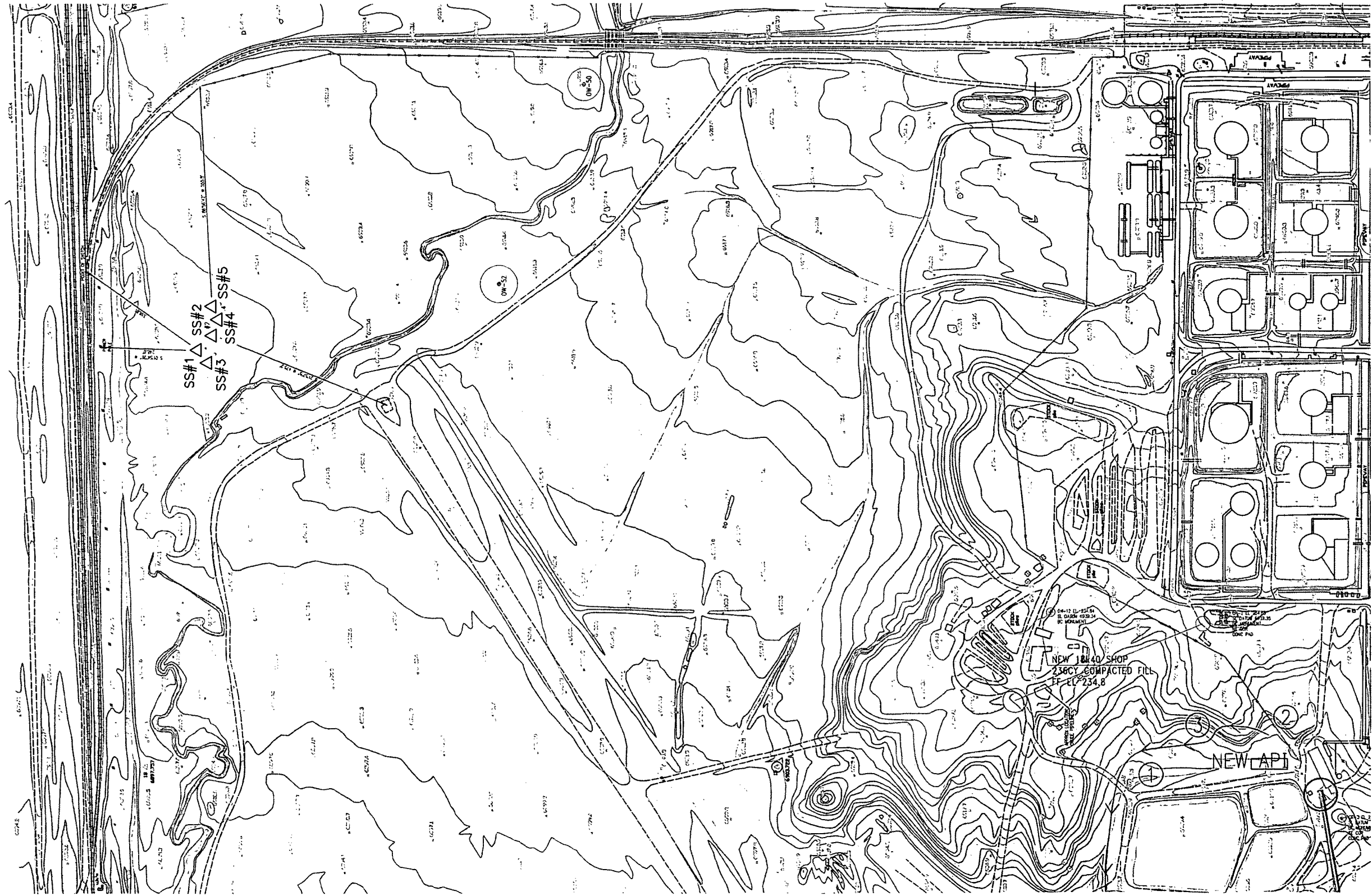
Notes:
PQL = practical quantitation limit.
ND = Not detected above the PQL.
NA = Data not available.
PAHs = polycyclic aromatic hydrocarbons.

The "Final Baseline Concentrations" shown above are the average of the data available from the four baseline samples with the exception mentioned below:
The Final Baseline Concentration for Total BTEX = the sum of the Final Baseline Concentrations for each of the four individual analytes.
The Final Baseline Concentration for DRO+GRO = the sum of the Final Baseline Concentrations for DRO and GRO.
The Final Baseline Concentration for Radium-226+Radium-228 = the sum of the Final Baseline Concentrations for Radium-226 and Radium-228.
*PAHs were only analyzed for one of four baseline sample locations utilizing SIM analysis (SW8310).
A lower PQL (0.020 mg/kg) is achieved utilizing SIM analysis than standard analysis (SW8270C).
Gallup intends to analyze future soil samples using the standard analysis.
Therefore, the SIM analysis PQLs would not be achievable.
The PQLs utilized above for PAH Final Baseline Concentrations (0.100 mg/kg) are the PQLs provided from Hall Environmental for the standard analysis (SW8270C).
The "Alternate Beneficial Reuse Screening Concentrations" (ABRSCs) shown above are the highest of the following three screening standards:
NMED Construction Worker Soil Screening Standards
OCD Form C-137 EZ (Registration/Final Closure Report For Small Landfarm) Screening Standards
NMAC 20.6.2.3103 Screening Standards with a 20 X dilution factor
In the event that a screening standard for a particular analyte does not exist for each of the above-three screening standards, the ABRSC has be set to "NA".
**The ABRSCs for benzene, ethylbenzene, toluene, and total xylenes have been reduced to 50 mg/kg so that the individual analyte ABRSCs do not exceed the Total BTEX ABRSC.

TABLE 1. INITIAL BASELINE AND ALTERNATE BENEFICIAL REUSE SOIL CONCENTRATIONS, OIL CONSERVATION DIVISION LANDFARMS WESTERN REFINING SOUTHWEST, GALLUP REFINERY, GALLUP, NEW MEXICO

Analyte	Analytical Method	Reporting Units	Sample ID "Background" Collected February 2010				Sample ID "BG-NE-033011" Collected March 2011				Sample ID "BG-W-033011" Collect March 2011				Sample ID "BG-S-033011" Collected March 2011				Final Baseline Concentration	Alternate Baseline Reuse Screening Concentration
			Result	PQL	Sample Baseline Concentration		Result	PQL	Sample Baseline Concentration		Result	PQL	Sample Baseline Concentration		Result	PQL	Sample Baseline Concentration			
Chloride	E300	mg/kg	ND	7.500	7.500		7.600	7.500	7.600	ND	7.500	7.500		ND	7.500	7.500		7.525	5000	
Fluoride	E300	mg/kg	3.300	1.500	3.300		4.300	1.500	1.300	1.800	1.500	1.800		1.800	1.500	1.800		2.950	18600	
Nitrogen, Nitrate (As N)	E300	mg/kg	2.200	1.500	2.200		ND	1.500	1.500	3.000	1.500	3.000		2.100	1.500	2.100		2.200	486000	
Sulfate	E300	mg/kg	18.000	7.500	18.000		42.000	7.500	42.000	15.000	7.500	15.000		11.000	7.500	11.000		21.500	12000	
Radium-226	E901.1	pCi/g	1.500	NA	1.500		1.290	NA	1.290	NA	NA	NA		NA	NA	NA		1.395	NA	
Radium-228	E901.1	pCi/g	1.100	NA	1.100		1.400	NA	1.400	NA	NA	NA		NA	NA	NA		1.250	NA	
Radium-226+Radium-228	E901.1	pCi/g	NA	NA	NA		NA	NA	NA	NA	NA	NA		NA	NA	NA		2.645	600	
Arsenic	SW6010A	mg/kg	ND	13.000	13.000		ND	13.000	13.000	ND	13.000	13.000		ND	13.000	13.000		13.000	65.4	
Barium	SW6010A	mg/kg	310.000	1.000	310.000		380.000	1.000	380.000	380.000	1.000	380.000		390.000	1.000	390.000		365.000	4350	
Cadmium	SW6010A	mg/kg	ND	0.500	0.500		ND	0.500	0.500	ND	0.500	0.500		ND	0.500	0.500		0.500	309	
Chromium	SW6010A	mg/kg	8.000	1.500	8.000		17.000	1.500	17.000	16.000	1.500	16.000		9.800	1.500	9.800		12.700	447000	
Copper	SW6010A	mg/kg	4.000	1.500	4.000		4.200	1.500	4.200	1.700	1.500	1.900		1.900	1.500	1.900		2.950	12400	
Iron	SW6010A	mg/kg	NA	NA	NA		20000.000	500.000	20000.000	19000.000	500.000	13000.000		13000.000	500.000	13000.000		17333.333	217000	
Lead	SW6010A	mg/kg	NA	NA	NA		6.000	1.300	6.000	8.200	1.300	2.400		2.400	1.300	2.400		5.533	800	
Manganese	SW6010A	mg/kg	NA	NA	NA		370.000	1.000	370.000	370.000	1.000	820.000		820.000	50.000	820.000		520.000	463	
Selenium	SW6010A	mg/kg	ND	13.000	13.000		ND	13.000	13.000	ND	13.000	13.000		ND	13.000	13.000		13.000	1550	
Silver	SW6010A	mg/kg	ND	1.300	1.300		ND	1.300	1.300	ND	1.300	1.300		ND	1.300	1.300		1.300	1550	
Uranium	SW6010A	mg/kg	ND	25.000	25.000		ND	50.000	50.000	ND	50.000	50.000		ND	50.000	50.000		43.750	929	
Zinc	SW6010A	mg/kg	NA	NA	NA		23.000	13.000	23.000	20.000	13.000	21.000		21.000	13.000	21.000		21.333	92900	
Mercury	SW7471	mg/kg	ND	0.330	0.330		ND	0.033	0.033	ND	0.033	0.033		ND	0.033	0.033		0.107	63.6	
Aroclor 1016	SW8082	mg/kg	NA	NA	NA		ND	0.020	0.020	NA	NA	NA		NA	NA	NA		0.020	16.3	
Aroclor 1221	SW8082	mg/kg	NA	NA	NA		ND	0.020	0.020	NA	NA	NA		NA	NA	NA		0.020	71.3	
Aroclor 1232	SW8082	mg/kg	NA	NA	NA		ND	0.020	0.020	NA	NA	NA		NA	NA	NA		0.020	71.3	
Aroclor 1242	SW8082	mg/kg	NA	NA	NA		ND	0.020	0.020	NA	NA	NA		NA	NA	NA		0.020	75.8	
Aroclor 1248	SW8082	mg/kg	NA	NA	NA		ND	0.020	0.020	NA	NA	NA		NA	NA	NA		0.020	75.8	
Aroclor 1254	SW8082	mg/kg	NA	NA	NA		ND	0.020	0.020	NA	NA	NA		NA	NA	NA		0.020	4.36	
Aroclor 1260	SW8082	mg/kg	NA	NA	NA		ND	0.020	0.020	NA	NA	NA		NA	NA	NA		0.020	75.8	
1,1,1-Trichloroethane	SW8260B	mg/kg	ND	0.050	0.050		ND	0.050	0.050	ND	0.050	0.050		NA	0.050	0.050		0.050	64300	
1,1,2-Trichloroethane	SW8260B	mg/kg	ND	0.050	0.050		ND	0.050	0.050	ND	0.050	0.050		NA	0.050	0.050		0.050	1240	
1,1-Dichloroethane	SW8260B	mg/kg	ND	0.100	0.100		ND	0.100	0.100	ND	0.100	0.100		NA	0.100	0.100		0.100	6880	
1,1-Dichloroethene	SW8260B	mg/kg	ND	0.050	0.050		ND	0.050	0.050	ND	0.050	0.050		NA	0.050	0.050		0.050	1830	
1,2-Dichloroethane	SW8260B	mg/kg	ND	0.050	0.050		ND	0.050	0.050	ND	0.050	0.050		NA	0.050	0.050		0.050	751	
Benzene	SW8260B	mg/kg	ND	0.050	0.050		ND	0.050	0.050	ND	0.050	0.050		NA	0.050	0.050		0.050	50**	
Carbon tetrachloride	SW8260B	mg/kg	ND	0.100	0.100		ND	0.100	0.100	ND	0.100	0.100		NA	0.100	0.100		0.100	199	
Chloroform	SW8260B	mg/kg	ND	0.050	0.050		ND	0.050	0.050	ND	0.050	0.050		NA	0.050	0.050		0.050	671	
Dibromomethane	SW8260B	mg/kg	ND	0.100	0.100		ND	0.100	0.100	ND	0.100	0.100		NA	0.100	0.100		0.100	0.002	
Ethylbenzene	SW8260B	mg/kg	ND	0.050	0.050		ND	0.050	0.050	ND	0.050	0.050		NA	0.050	0.050		0.050	50**	
Methylene chloride	SW8260B	mg/kg	ND	0.150	0.150		ND	0.150	0.150	ND	0.150	0.150		NA	0.150	0.150		0.150	106600	
Tetrachloroethene	SW8260B	mg/kg	ND	0.050	0.050		ND	0.050	0.050	ND	0.050	0.050		NA	0.050	0.050		0.050	338	
Toluene	SW8260B	mg/kg	ND	0.050	0.050		ND	0.050	0.050	ND	0.050	0.050		NA	0.050	0.050		0.050	50**	
Trichloroethene	SW8260B	mg/kg	ND	0.050	0.050		ND	0.050	0.050	ND	0.050	0.050		NA	0.050	0.050		0.050	4600	
Vinyl chloride	SW8260B	mg/kg	ND	0.050	0.050		ND	0.050	0.050	ND	0.050	0.050		NA	0.050	0.050		0.050	248	
Xylenes, Total	SW8260B	mg/kg	ND	0.100	0.100		ND	0.100	0.100	ND	0.100	0.100		NA	0.100	0.100		0.100	50**	

FIGURES



Base map: Western Refining Company, February 23, 2010.

EXPLANATION

△ SS#3 BASELINE SOIL SAMPLE LOCATION AND DESIGNATION

NOTE:
SS#1 THROUGH SS#5 WERE COMPOSITED AND SUBMITTED TO HALL
ENVIRONMENTAL LABORATORIES AS SAMPLE ID "BACKGROUND".



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FIGURE 1

OCD BASELINE SOIL SAMPLE LOCATIONS
(FEBRUARY 2010)

WESTERN REFINING COMPANY L.L.C.
GALLUP REFINERY
GALLUP, NEW MEXICO

Drawn By: REP Checked By: GP Scale: NONE Date: 5/12/11 File: 697-OCD-PDF-201105



EXPLANATION

- △ BG-S-033011 BASELINE SOIL SAMPLE LOCATION AND DESIGNATION
- PROPERTY BOUNDARY

NOTE: A 5-POINT COMPOSITE SAMPLE WAS COLLECTED WITHIN A 100-FOOT AREA AT EACH SAMPLE LOCATION SHOWN ON THE MAP ABOVE.



Drawn By: BR Checked By: GP Scale: 1" = 1000'

FIGURE 2

**OCD BASELINE SOIL SAMPLE LOCATIONS
(MARCH 2011)**

**WESTERN REFINING COMPANY L.L.C.
GALLUP REFINERY
GALLUP, NEW MEXICO**

Date: 5/13/11 File: Gallup_OCD_Samples_20110513.mxd

ATTACHMENT A
TIER II DATA VALIDATION



Tier II Data Validation Report Summary

Client: Western Refining Southwest, Gallup	Laboratory: Hall Environmental Analysis Laboratory, Anatek Labs, Inc. and Pace Analytical
Project Name: Gallup OCD Landfarms	Sample Matrix: Soil and Water
Project Number: 697-039-002	Sample Start Date: March 30, 2011
Date Validated: May 5, 2011	Sample End Date: March 31, 2011
Parameters Included: <u>Hall Environmental Analysis Laboratory:</u> 1,2-Dibromoethane (EDB) by Environmental Protection Agency (EPA) Method 8011 and/or 504.1 Modified, Polychlorinated Biphenyls (PCB) by EPA Method 8082, Polyaromatic Hydrocarbons (PAH) by EPA Method 8310, Anions by EPA Method 300.0, Mercury by EPA Method 7471, Soil Metals by EPA Method 6010B, Aqueous Metals by EPA Method 200.7, Semi-Volatile Organic Compounds (SVOC) by EPA Method 8270C, Volatile Organic Compounds (VOC) by EPA Methods 8260B and 8021B, pH by Standard Method (SM) 4500-H+B, Total Phenolics by Method 420.3, Total Dissolved Solids (TDS) by SM2540C, Diesel Range Organics (DRO) by EPA Method 8015B, Gasoline Range Organics (GRO) by EPA Method 8015B, <u>Anatek Labs, Inc.:</u> Cyanide by EPA Method 335.4 and Percent Moisture <u>Pace Analytical:</u> Radium-226 and Radium-228 by EPA Method 901.1m (Soil), 903.1 (Aqueous), and 904.0 (Aqueous)	
Laboratory Project ID: 1104008	
Data Validator: Jessica Swanson, Environmental Chemist	

DATA EVALUATION CRITERIA SUMMARY

A Tier II Data Validation was performed by Trihydro Corporation's Chemical Data Evaluation Services group on the analytical data report package generated by Hall Environmental Analysis Laboratory of Albuquerque, NM with subcontracted analyses performed by Anatek Labs, Inc. of Moscow, ID and Pace Analytical of Greensburg, PA, evaluating samples from the Western Refining OCD Landfarms located in Gallup, NM.

Precision, accuracy, method compliance, and completeness of this data package were assessed during this data review. Precision was determined by evaluating the calculated relative percent difference (RPD) values of samples from field duplicate pairs and laboratory duplicate pairs. Laboratory accuracy was established by reviewing the demonstrated percent recoveries of matrix spike (MS) and matrix spike duplicate (MSD) samples, and of laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) to verify that data are not biased. Additionally, field accuracy was established by collecting field, trip, and equipment blanks to monitor for possible ambient or cross contamination during sampling. Method compliance was established by reviewing holding times, detection limits, surrogate recoveries, method blanks, and the LCS and LCSD percent recoveries against method-specific requirements. Completeness was evaluated by determining the overall ratio of the number of samples planned versus the number of samples with valid analyses. Determination of completeness included a review of the chain-of-custody (CoC), laboratory analytical methods, and other necessary documents associated with this analytical data set.

Data were evaluated in general accordance with validation criteria set forth in the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review, document number USEPA-540-R-08-01, June 2008 with additional reference to the USEPA CLP National Functional Guidelines for Organic Data Review, document number EPA 540/R-99-008, October 1999 and the USEPA CLP National Functional Guidelines for Inorganic Superfund Data Review, document number EPA 540R-10-011, January 2010. Review of duplicates is conducted in accordance with USEPA Region 1 Laboratory Data Validation Functional Guidelines for Evaluation of Organic Analysis, December 1996.





Tier II Data Validation Report Summary

SAMPLE NUMBERS TABLE

Client Sample ID	Laboratory Sample Number
Hall Environmental Analysis Laboratory	
BG-NE-033011	1104008-01
BG-W-033011	1104008-02
BG-S-033011	1104008-03
CentralOCD-Close-033011	1104008-04
NEOCD-Close-033011	1104008-05
EB-033011	1104008-06
FB-033-11	1104008-07
Central OCD-01-033111	1104008-08
Central OCD-02-033111	1104008-09
Central OCD-03-033111	1104008-10
Central OCD-04-033111	1104008-11
NE OCD-01-033111	1104008-12
NE OCD-02-033111	1104008-13
NE OCD-03-033111	1104008-14
NE OCD-04-033111	1104008-15
Trip Blank	1104008-16
BD-02-033111	1104008-17
BD-01-033111	1104008-18
Anatek Labs, Inc.	
BG-NE-033011	110405030-001
CentralOCD-Close-033011	110414047-001
Pace Analytical	
BG-NE-033011	3044432001
Central OCD-01-033111	3044432002
Central OCD-02-033111	3044432003
Central OCD-03-033111	3044432004
Central OCD-04-033111	3044432005
NE OCD-01-033111	3044432006
NE OCD-02-033111	3044432007
NE OCD-03-033111	3044432008
NE OCD-04-033111	3044432009
BD-02-033111	3044432010
BD-01-033111	3044432011
CentralOCD-Close-033011	3044907001
NEOCD-Close-033011	3044907002





Tier II Data Validation Report

The samples were analyzed for the required analytes. Assessment of CoC completeness is included in Section #3. The laboratory data were reviewed to evaluate compliance with the required methods and the quality of the reported data. A leading check mark (✓) indicates that the referenced validation criteria were deemed acceptable. A preceding crossed circle (⊗) indicates validation criteria for which the data may have been qualified by the data validator. Details are noted in the tables below.

Validation Criteria

- ✓ Data Completeness
- ✓ CoC Documentation
- ⊗ Holding Times and Preservation
- ✓ Laboratory Blanks
- ✓ System Monitoring Compounds (i.e., Surrogates)
- ⊗ Laboratory Control Samples/Laboratory Control Sample Duplicates (LCS/LCSD)
- ⊗ Matrix Spike/Matrix Spike Duplicates (MS/MSD)
- ⊗ Field Duplicates
- ✓ Field, Equipment, and Trip Blanks

OVERALL DATA PACKAGE ASSESSMENT

Based on a data validation review, the data are acceptable as delivered. Data qualified by the laboratory are discussed in Section #2.

The purpose of validating data and assigning qualifiers is to assist in proper data interpretation. Data which are not qualified meet the site data quality objectives. If values are assigned qualifiers other than an R (rejected, data not usable), the data may be used for site evaluation, with the reasons for qualification being given consideration when interpreting sample concentrations. Data points which are assigned an R qualifier should not be used for site evaluation purposes. Text identified in **bold font** indicates that further action and/or qualification of the data were required. Data validation qualifiers were added for the items noted with crossed circles, above. Please see the Data Qualification Summary table at the end of this report for a complete list of samples and analytes qualified.

Data qualifiers used during this validation included:

- J – Estimated concentration
- UJ – Estimated reporting limit

Data Completeness

The analyses were performed as requested on the CoC records. The associated samples were received by the laboratory and appeared to be analyzed properly. No data points were rejected. The data completeness measure for this data package is 100% and is acceptable.



VALIDATION CRITERIA CHECKLIST

1. Was the report free of non-conformances related to the analytical data identified by the laboratory? Yes

Comments: The report was free of non-conformances related to the analytical data as identified by the laboratory.

2. Were data qualification flags or other notes used by the laboratory? If yes, define. Yes

Comments: The following data qualification flags and notes were used by the laboratory.

S – Spike recovery outside accepted recovery limits.

* – Value exceeds Maximum Contaminant Level

H – Holding times for preparation or analysis exceeded.

3. Were sample CoC forms complete? Yes

Comments: The CoC form was complete from the field to the laboratory. Custody was maintained with proper signatures, times, and dates of receipt and between laboratories where sub-contracted work was performed.

The CoC requested analyses were referred to as List 4 (normal), List 1 (normal), List 2 (normal), List 1 (TCLP), and List 3 (TCLP). These lists however, were not attached to the CoC or included with the laboratory report.

4. Were detection limits in accordance with the quality assurance project plan (QAPP), permit, or method, or indicated as acceptable? Yes

Comments: The detection limits were reviewed and found to be acceptable.

EPA Method 200.7: Dilutions of 5 to 10 times for the barium and manganese analyses in samples CentralOCD-Close-033011 and NEOCD-Close-033011.

EPA Method 300: Dilutions of 5 to 20 times were required for the chloride, fluoride, nitrate as nitrogen, nitrite as nitrogen, nitrate + nitrite, and sulfate analyses in the environmental samples.

SW Method 6010B: Dilutions up to 500 times were required for the metals analyses in the environmental samples.

SW Method 8015: Dilutions of 10 times were required for the DRO and motor oil range organics in sample BD-01-033111.

SW Method 8260B: Dilutions of 20 times were required for the VOC analyses in the environmental samples.

5. Were the requested analytical methods in compliance with the QAPP, permit, or CoC? Yes

Comments: The requested analytical methods were in compliance with the CoC.

6. Were samples received in good condition within method specified requirements? No

Comments: The samples were received on ice, intact, and in good condition upon arrival at Hall Environmental Analysis Laboratories with cooler temperatures outside the 4°C +/- 2°C acceptance range at 8.6°C, as noted on the Sample Receipt Checklist. The samples were hand delivered to the laboratory immediately after sample collection. Further action was not required since the samples were not given sufficient time to cool.

7. Were samples analyzed within method specified or technical holding times? No

Comments: The samples were analyzed within method specified or technical holding times with the following exception.

The analysis of pH was performed outside of the method specified holding time of immediately which is interpreted as within 24 hours. As a result, the data were qualified as J to indicate estimated value.

8. Were reported units appropriate for the sample matrix/matrices and method(s) of analyses? Yes

Comments: The sample results were reported in mg/kg, µg/kg, mg/L, µg/L, pCi/u, and in standard pH units, which are appropriate for the matrices and analyses requested.



VALIDATION CRITERIA CHECKLIST

9. Do the laboratory reports include all constituents requested to be reported? Yes

Comments: The laboratory report included the constituents requested on the CoC.

10. Was there indication from the laboratory that the initial or continuing calibration verification results were within acceptable limits? N/A

Comments: Initial and continuing calibration data were not included as part of this data set; however, these data are assumed to be acceptable as the laboratory did not note that any calibration verification results were outside acceptable limits.

11. Was the total number of laboratory blank samples prepared equal to at least 5% of the total number of samples, or analyzed as required by the method? Yes

Comments: The total number of laboratory blank samples prepared was equal to at least 5% of the total number of samples.

12. Were laboratory blank samples free of analyte contamination? Yes

Comments: The laboratory blank samples were free of analyte contamination.

13. Was the total number of matrix spike samples prepared equal to at least 5% of the total number of samples, or analyzed as required by the method? No

Comments: The total number of matrix spike samples prepared was equal to at least 5% of the total number of samples. Matrix spike samples were not prepared for the radium, phenolics, DRO, or GRO analyses. These data were evaluated using other QC data. Additionally, matrix spike samples were not prepared for anion batches 26291, R44669, R44698, and R44785; metals batch 26237, and VOC batches 26239 and R44744.

Matrix spike samples for the cyanide analysis from Anatek Labs batch 110414047 was prepared from a sample not associated with this data set.

Matrix spike samples for the analyses from Hall Environmental Analysis Laboratory metals batch 26407, mercury batch 26593, anions batch R44750, EDB batch 26414, PCB batch 26425, PAH batch 26424, and TDS batch 26401 were prepared from sample CentralOCD-Close-033011. Matrix spike samples for metals batch 26389 were prepared from sample NEOCD-Close-033011. Matrix spike samples for EDB batch 26347, PCB batch 26241, SVOC batch 26243, SVOC batch 26348, and mercury batch 26253 were prepared from sample BG-NE-033011. Matrix spike samples for VOC batch 26239 were prepared from sample Central OCD-01-033111. Matrix spike samples for VOC batch R44594 were prepared from sample EB-033011.



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VALIDATION CRITERIA CHECKLIST

14. Were MS/MSD percent recoveries and MS/MSD RPD values within data validation or laboratory quality control (QC) limits? No

Comments: Project specific MS and MSD percent recoveries were within laboratory QC limits, with the exceptions listed in the following table.

Analyte	Batch	MS	MSD	MS/MSD Limits
Aroclor 1016	PCB batch 26425	29.4%	30.7%	70-130%
Aroclor 1260	PCB batch 26425	23.3%	25.2%	61.1-129%
Chlorobenzene	VOC batch R44594	77.3%	--	78.8-114%
Naphthalene	PAH batch 26348	Acceptable	40.9%	42.9-109%
Naphthalene	PAH batch 26424	62.3%	61.4%	70-130%
1-Methylnaphthalene	PAH batch 26424	65.8%	64.5%	70-130%
2-Methylnaphthalene	PAH batch 26424	65.3%	64.9%	70-130%
Acenaphthylene	PAH batch 26424	67.6%	65.1%	70-130%
Fluorene	PAH batch 26424	54.6%	53.2%	70-130%
Phenanthrene	PAH batch 26424	34.8%	34.3%	70-130%
Anthracene	PAH batch 26424	Acceptable	67.4%	70-130%
Pyrene	PAH batch 26424	67.1%	57.9%	70-130%
Fluoranthene	PAH batch 26424	68.3%	Acceptable	70-130%

The analytes in the above table were qualified as J or UJ in the associated samples due to possible low bias.

The MS and MSD percent recoveries for non-project samples were considered, but data were not qualified since matrix similarity to project samples could not be guaranteed.

15. Was the total number of LCSs analyzed equal to at least 5% of the total number of samples, or analyzed as required by the method? Yes

Comments: The total number of LCSs analyzed was equal to at least 5% of the total number of samples. LCS samples were neither prepared nor required for radium analyses.

16. Were LCS/LCSD percent recoveries and LCS/LCSD RPD values within data validation or laboratory QC limits? No

Comments: The LCS percent recoveries were within laboratory QC limits with the following exceptions.

Method 200.7: The LCS percent recovery of silver in batch 26407 was outside of the laboratory QC limits 85-115% at 83.5%. As a result, silver was qualified as J or UJ in the associated samples due to a possible low bias.

Method 300.0: The LCS percent recovery of fluoride in batch R44785 was outside of the laboratory QC limits of 90-110% at 111%. Detections of fluoride in the associated samples were qualified as J due to a possible high bias.

17. Were surrogate recoveries within laboratory QC limits? Yes

Comments: Surrogate recoveries were within laboratory QC limits.



VALIDATION CRITERIA CHECKLIST

18. Was the number of equipment, trip, or field blanks collected equal to at least 10% of the total number of samples, or as required by the project guidelines, QAPP, SAP, or permit? Yes

Comments: The number of equipment, trip, or field blanks collected was equal to at least 10% of the total number of samples. One equipment blank, EB-033011, one field blank, FB-033-11, and one trip blank, Trip Blank, were collected with the samples of this data set.

19. Were the trip blank, field blank, and/or equipment blank samples free of analyte contamination? Yes

Comments: The blank samples were reported to be free of analyte contamination.

20. Was the number of field duplicates collected equal to at least 10% of the total number of samples, or as required by the project guidelines, QAPP, SAP, or permit? Yes

Comments: There were two field duplicate samples collected with the samples of this data set. Sample BD-01-033111 was collected as a duplicate of sample CentralOCD-01-033111 and sample BD-02-033111 was collected as a duplicate of sample NE OCD-01-033111.

21. Were field duplicate RPD values within data validation QC limits (soil 0-50%, water 0-30%, or air 0-25%)? No

Comments: The field duplicate RPD values were within the data validation QC limits of 0-50% for soil samples as shown in the field duplicate summary tables at the end of this report with the following exception.

The analyte DRO was qualified as UJ in the parent sample CentralOCD-01-033111 and as J in the duplicate sample BD-01-033111 since the detection in the duplicate was greater than two times the reporting limit.

22. Were laboratory duplicate RPD values within laboratory QC limits? N/A

Comments: Laboratory duplicate samples were not prepared for the analyses in this data set.



FIELD DUPLICATE SUMMARY

Client Sample ID: CentralOCD-01-033111 Field Duplicate Sample ID: BD-01-033111			
Analyte	Laboratory Result (mg/kg)	Duplicate Result (mg/kg)	Relative Percent Difference (RPD)
Chloride	810	820	1.2%
Sulfate	420	360	15.4%
Barium	240	300	22.2%
Chromium	17	18	5.7%
Copper	5.4	5.4	0.0%
Iron	16000	18000	11.8%
Lead	6.4	5.9	8.1%
Manganese	420	430	2.4%
DRO	ND (10)	260	DL
Field duplicate RPD control limits are not to exceed 50% for soil as established by USEPA Region 1 Laboratory Data Validation Function Guidelines for Evaluation of Organic Analysis, December 1996. DL – Indicates that the analyte was detected in one of the duplicate samples and was undetected in the other sample, and therefore an RPD could not be calculated. No data were qualified if the detection was within two times the reporting limit. The analyte DRO was qualified as UJ in the parent sample CentralOCD-01-033111 and as J in the duplicate sample BD-01-033111 since the detection in the duplicate was greater than two times the reporting limit.			

Client Sample ID: NE OCD-01-033111 Field Duplicate Sample ID: BD-02-033111			
Analyte	Laboratory Result (mg/kg)	Duplicate Result (mg/kg)	Relative Percent Difference (RPD)
Chloride	240	220	8.7%
Sulfate	580	640	9.8%
Barium	290	290	0.0%
Chromium	11	12	8.7%
Iron	16000	17000	6.1%
Lead	5.8	6.5	11.4%
Manganese	400	400	0.0%
Field duplicate RPD control limits are not to exceed 50% for soil as established by USEPA Region 1 Laboratory Data Validation Function Guidelines for Evaluation of Organic Analysis, December 1996.			

DATA QUALIFICATION SUMMARY

Analyte	Method	Field Sample ID	Lab Sample ID	Result	Units	Reviewer Qualifier	Reviewer Qualifier Reason
1-Methylnaphthalene	SW8310	CentralOCD-Close-033011	1104008-04	ND (2)	ug/l	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
2-Methylnaphthalene	SW8310	CentralOCD-Close-033011	1104008-04	ND (2)	ug/l	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
Acenaphthylene	SW8310	CentralOCD-Close-033011	1104008-04	ND (2.5)	ug/l	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
Anthracene	SW8310	CentralOCD-Close-033011	1104008-04	ND (0.6)	ug/l	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
Aroclor 1016	SW8082	CentralOCD-Close-033011	1104008-04	ND (0.02)	mg/kg	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
Aroclor 1260	SW8082	CentralOCD-Close-033011	1104008-04	ND (1)	mg/kg	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
Chlorobenzene	SW8260B	EB-033011	1104008-06	ND (1)	ug/l	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
Chlorobenzene	SW8260B	FB-033-11	1104008-07	ND (1)	ug/l	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
Chlorobenzene	SW8260B	Trip Blank	1104008-16	ND (1)	ug/l	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
DRO	SW8015	BD-01-033111	1104008-18	260	mg/kg	J	High field duplicate RPD value
DRO	SW8015	Central OCD-01-033111	1104008-08	ND (10)	mg/kg	UJ	High field duplicate RPD value
Fluoranthene	SW8310	CentralOCD-Close-033011	1104008-04	ND (0.3)	ug/l	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
Fluorene	SW8310	CentralOCD-Close-033011	1104008-04	ND (0.8)	ug/l	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
Fluoride	E300	CentralOCD-Close-033011	1104008-04	1.8	mg/l	J	The LCS and/or LCSD recovery(ies) were above the acceptable limits indicating a possible high bias.
Naphthalene	SW8310	BG-NE-033011	1104008-01	ND (0.25)	mg/kg	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
Naphthalene	SW8310	CentralOCD-Close-033011	1104008-04	2.5	ug/l	J	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.

Analyte	Method	Field Sample ID	Lab Sample ID	Result	Units	Reviewer Qualifier	Reviewer Qualifier Reason
pH	SM 4500	BG-NE-033011	1104008-01	9.03	pH	J	Sample was analyzed outside of the acceptable holding time.
pH	SM 4501	CentralOCD-Close-033011	1104008-04	6.52	pH	J	Sample was analyzed outside of the acceptable holding time.
Phenanthrene	SW8310	CentralOCD-Close-033011	1104008-04	ND (0.6)	ug/l	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
Pyrene	SW8310	CentralOCD-Close-033011	1104008-04	ND (0.3)	ug/l	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
Silver	E200.7	CentralOCD-Close-033011	1104008-04	ND (0.005)	mg/l	UJ	The LCS and/or LCSD recovery(ies) were below the acceptable limits indicating a possible low bias.

ATTACHMENT B
SOIL SAMPLING LOGS

TRIHYDRO CORPORATION FIELD BORING LOG

Sheet 1 of 1 Sheets

Project & Project Number: Western Refining, Gallup 697-039-002
 Project Location/Address: Gallup, NM
 Client: Western Refining
 Weather: Wind ~15 mph from WNW
 Logged By: GP G. Price
 Logger's Signature: *GP*

Date: 3/30/11
 Drilling Company: NA
 Driller: NA
 Rig Type / Method: Shell / Spade
 Sample Method (circle one): Direct Push Split Spoon Shelby Tube Other: Shell / Spade
 Surface Elevation: NA Casing Elevation: NA GE Elevation: NA
 Equipment List: Shell / Spade

Boring Location: Background Sampling - NE of Refinery									
Interval (ft bgs)	Texture - Grain Size	Color	Plasticity	Consistency	Moisture	Odor	PID Interval/Reading	Additional Comments	
0-1	GVL - FMC Sand - FMC Silt Clay	Black Gray - LMD Gray - LMD Red - LMD Other %	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -	Strong Moderate Slight None Noted		more sand (fine) towards surface, clay towards bottom. NE-BG-41 slightly sandier	
	GVL - FMC Silt Clay	Black Gray - LMD Brn - LMD Red - LMD Other %	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -	Strong Moderate Slight None Noted		NE-BG-5 slightly sandier clayier.	
	GVL - FMC Sand - FMC Silt Clay	Black Gray - LMD Brn - LMD Red - LMD Other %	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -	Strong Moderate Slight None Noted		NE-BG-1 N 35° 29.908' E 6259' W 108° 25.552'	
	GVL - FMC Sand - FMC Silt Clay	Black Gray - LMD Brn - LMD Red - LMD Other %	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -	Strong Moderate Slight None Noted		NE-BG-2 N 35° 29.903' E 6863' W 108° 25.545'	
	GVL - FMC Sand - FMC Silt Clay	Black Gray - LMD Brn - LMD Red - LMD Other %	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -	Strong Moderate Slight None Noted		NE-BG-3 N 35° 29.905' E 6865' W 108° 25.541'	
	GVL - FMC Sand - FMC Silt Clay	Black Gray - LMD Brn - LMD Red - LMD Other %	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -	Strong Moderate Slight None Noted		NE-BG-4 N 35° 29.901' E 6870' W 108° 25.536'	
	GVL - FMC Sand - FMC Silt Clay	Black Gray - LMD Brn - LMD Red - LMD Other %	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -	Strong Moderate Slight None Noted		NE-BG-5 N 35° 29.902' E 6871' W 108° 25.530'	

Number/Size of Containers: 3 - 8 oz jars
 Analysis to be Performed: List 1 (Normal)
 Duplicate Collected: NA
 Notes: This is a 5 point composite sample.
 Each container filled 1/5 @ each 12".

Sample Collected: Yes
 Sample ID: NE-BG-033011
 Date: 3/30/11
 Time: 12:10
 Depth: 6-12' ~ 9"

TRIHYDRO CORPORATION FIELD BORING LOG

Sheet 1 of 1 Sheets

Project & Project Number: Western Refining, Gallup, NM
 Project Location/Address: Gallup, NM
 Client: Western Refining
 Weather: Wind from W, 22 mph, 40°
 Logged by: G. Price
 Logger's Signature: *G. Price*
 Date: 3/30/11
 Drilling Company: NA
 Driller: NA
 Rig Type / Method: Split Spoon
 Sample Method (Circle one): Direct Push
 Surface Elevation: GE Elevation:
 Equipment List: shovel, drill

Boring Location: New Background Sampling West of Refinery									
Interval (ft Bgs)	Texture - Grain Size	Major	Color	Modifier	Plasticity	Consistency	Moisture	Odor	PID
0-3"	GVL - FMC Sand - FMC Clay	Black Gray - LMD Gray - LMD Red - LMD Other	Red Gray Gray Rust Other	Brown Green Green Yellow %	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated	Strong Moderate Slight None Noted	
3-12"	GVL - FMC Sand - FMC Silt Clay	Black Gray - LMD Gray - LMD Red - LMD Other	Red Gray Gray Rust Other	Brown Green Green Yellow %	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated	Strong Moderate Slight None Noted	
12-18"	GVL - FMC Sand - FMC Silt Clay	Black Gray - LMD Gray - LMD Red - LMD Other	Red Gray Gray Rust Other	Brown Green Green Yellow %	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated	Strong Moderate Slight None Noted	
18-29.302'	GVL - FMC Sand - FMC Silt Clay	Black Gray - LMD Gray - LMD Red - LMD Other	Red Gray Gray Rust Other	Brown Green Green Yellow %	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated	Strong Moderate Slight None Noted	BG-W-1 N 35° 29.302' e/e W 108° 26.375' 6857'
29.302-38.384'	GVL - FMC Sand - FMC Silt Clay	Black Gray - LMD Gray - LMD Red - LMD Other	Red Gray Gray Rust Other	Brown Green Green Yellow %	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated	Strong Moderate Slight None Noted	BG-W-2 N 35° 29.302' e/e W 108° 26.384' 6867'
38.384-49.301'	GVL - FMC Sand - FMC Silt Clay	Black Gray - LMD Gray - LMD Red - LMD Other	Red Gray Gray Rust Other	Brown Green Green Yellow %	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated	Strong Moderate Slight None Noted	BG-W-3 N 35° 29.301' e/e W 108° 26.388' 6864'
49.301-59.394'	GVL - FMC Sand - FMC Silt Clay	Black Gray - LMD Gray - LMD Red - LMD Other	Red Gray Gray Rust Other	Brown Green Green Yellow %	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated	Strong Moderate Slight None Noted	BG-W-4 N 35° 29.303' e/e W 108° 26.394' 6866'
59.394-69.305'	GVL - FMC Sand - FMC Silt Clay	Black Gray - LMD Gray - LMD Red - LMD Other	Red Gray Gray Rust Other	Brown Green Green Yellow %	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated	Strong Moderate Slight None Noted	BG-W-5 N 35° 29.305' e/e W 108° 26.399' 6870'

Sample Collected: Yes
 Sample ID: BG-W-033011
 Date: 3/30/11
 Time: 13:15
 Depth: 6-12' 24"
 Number/Size of Containers: 2 4 oz jar
 Analysis to be Performed: List 2 (Normal)
 Duplicate Collected: No
 Notes: This is a 5 point composite sample.

Project & Project Number:	Western Refining, Gallup 697-039-002
Project Location/Address:	Gallup, NM
Client:	Western Refining
Weather:	Wind from W ~ 15 mph ~ 65°
Logged by:	G. Price
Logger's Signature:	<i>[Signature]</i>
Date:	3/30/11
Drilling Company:	NR
Driller:	NA
Rig Type / Method:	Shovel / hand
Sample Method (circle one):	Direct Push
Surface Elevation:	Casing Elevation:
Equipment List:	Shovel / hand

Smith & Harvey (1961)

Interval (ft bgs)	Texture - Grain Size		Color		Plasticity	Consistency	Moisture	Odor	PID Infrared	Additional Comments (odor descriptor, sheen, nodules, structure, vegetation, etc.)
	Major	Minor	Major	Modifier						
0-1	GVL - FMC	Grvly	Black	Brown	High	Very Soft	Dry	Strong		abundant nod. All 5 sections similar.
	Sand - FMC	Sandy	Gray - LMD	Gray Green	Moderate	Soft	Moist	Moderate		
	Silt	Silty	Bm - LMD	Rust Yellow	Low	Firm	Saturated	Slight		
	Clay	Clayey	Red - LMD	Other %	Non	Hard	-	None Noted		
	GVL - FMC	Grvly	Black	Brown	High	Very Soft	Dry	Strong		BG-5-1 N 35° 28.539 W 108° 26.116 Ele 6930
	Sand - FMC	Sandy	Gray - LMD	Gray Green	Moderate	Soft	Moist	Moderate		
	Silt	Silty	Bm - LMD	Rust Yellow	Low	Firm	Saturated	Slight		
	Clay	Clayey	Red - LMD	Other %	Non	Hard	-	None Noted		
	GVL - FMC	Grvly	Black	Brown	High	Very Soft	Dry	Strong		BG-5-2 N 35° 28.537 W 108° 26.125 Ele 6929
	Sand - FMC	Sandy	Gray - LMD	Gray Green	Moderate	Soft	Moist	Moderate		
	Silt	Silty	Bm - LMD	Rust Yellow	Low	Firm	Saturated	Slight		
	Clay	Clayey	Red - LMD	Other %	Non	Hard	-	None Noted		
	GVL - FMC	Grvly	Black	Brown	High	Very Soft	Dry	Strong		BG-5-3 N 35° 28.533 W 108° 26.123 Ele 6938
	Sand - FMC	Sandy	Gray - LMD	Gray Green	Moderate	Soft	Moist	Moderate		
	Silt	Silty	Bm - LMD	Rust Yellow	Low	Firm	Saturated	Slight		
	Clay	Clayey	Red - LMD	Other %	Non	Hard	-	None Noted		
	GVL - FMC	Grvly	Black	Brown	High	Very Soft	Dry	Strong		BG-5-4 N 35° 28.531 W 108° 26.127 Ele 6936
	Sand - FMC	Sandy	Gray - LMD	Gray Green	Moderate	Soft	Moist	Moderate		
	Silt	Silty	Bm - LMD	Rust Yellow	Low	Firm	Saturated	Slight		
	Clay	Clayey	Red - LMD	Other %	Non	Hard	-	None Noted		
	GVL - FMC	Grvly	Black	Brown	High	Very Soft	Dry	Strong		BG-5-5 N 35° 28.528 W 108° 26.130 Ele 6940
	Sand - FMC	Sandy	Gray - LMD	Gray Green	Moderate	Soft	Moist	Moderate		
	Silt	Silty	Bm - LMD	Rust Yellow	Low	Firm	Saturated	Slight		
	Clay	Clayey	Red - LMD	Other %	Non	Hard	-	None Noted		

Sample Collected: Yes

Number/Size of Containers: 1 - 4 oz jar

Analysis to be Performed: List 2 (Normal)

Duplicate Collected:

Notes: This is a 5 point composite sample.

Sample ID: BG-S-033011

Date: 3/30/11
Time: 14:10

Depth: 6-12" ~ 9"

ATTACHMENT C

LABORATORY ANALYTICAL REPORTS

COVER LETTER

Friday, March 12, 2010

Gaurav Rajen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-0227

FAX (505) 722-0210

RE: Land Farms

Order No.: 1002391

Dear Gaurav Rajen:

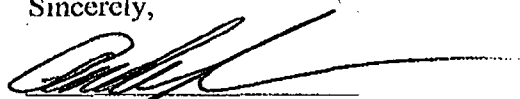
Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 2/19/2010 for the analyses presented in the following report.

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

Reporting limits are determined by EPA methodology.

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

Sincerely,


Andy Freeman, Laboratory Manager

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



Hall Environmental Analysis Laboratory, Inc.

Date: 12-Mar-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1002391
 Project: Land Farms
 Lab ID: 1002391-01

Client Sample ID: Background
 Collection Date: 2/17/2010 9:00:00 AM
 Date Received: 2/19/2010
 Matrix: SOILL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 504.1 MODIFIED: EDB						Analyst: LRW
1,2-Dibromoethane	ND	0.10		µg/Kg	1	3/1/2010 1:41:02 PM
Surr: 1,2,3-Trichloropropane	105	56.9-128		%REC	1	3/1/2010 1:41:02 PM
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/23/2010 2:21:23 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/23/2010 2:21:23 PM
Surr: DNOP	88.6	61.7-135		%REC	1	2/23/2010 2:21:23 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/25/2010 2:22:59 PM
Surr: BFB	92.2	65.9-118		%REC	1	2/25/2010 2:22:59 PM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Fluoride	3.3	1.5		mg/Kg	5	2/20/2010 11:15:16 AM
Chloride	ND	7.5		mg/Kg	5	2/20/2010 11:15:16 AM
Nitrogen, Nitrate (As N)	2.2	1.5		mg/Kg	5	2/20/2010 11:15:16 AM
Sulfate	18	7.5		mg/Kg	5	2/20/2010 11:15:16 AM
EPA METHOD 7471: MERCURY						Analyst: SNV
Mercury	ND	0.033		mg/Kg	1	3/3/2010 1:02:57 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	3/1/2010 5:14:41 PM
Barium	310	1.0		mg/Kg	10	3/1/2010 5:45:12 PM
Cadmium	ND	0.50		mg/Kg	5	3/1/2010 5:14:41 PM
Chromium	8.0	1.5		mg/Kg	5	3/1/2010 5:14:41 PM
Copper	4.0	1.5		mg/Kg	5	3/1/2010 5:14:41 PM
Selenium	ND	13		mg/Kg	5	3/1/2010 5:14:41 PM
Silver	ND	1.3		mg/Kg	5	3/1/2010 5:14:41 PM
Uranium	ND	25		mg/Kg	5	3/3/2010 9:42:07 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: LBJ
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	2/26/2010 11:54:43 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	2/26/2010 11:54:43 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	2/26/2010 11:54:43 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	2/26/2010 11:54:43 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	2/26/2010 11:54:43 AM
2-Methylphenol	ND	0.50		mg/Kg	1	2/26/2010 11:54:43 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM
4-Nitrophenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Mar-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1002391
 Project: Land Farms
 Lab ID: 1002391-01

Client Sample ID: Background
 Collection Date: 2/17/2010 9:00:00 AM
 Date Received: 2/19/2010
 Matrix: SOILL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: LBJ
Pentachlorophenol	ND	0.40		mg/Kg	1	2/26/2010 11:54:43 AM
Phenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM
Surr: 2,4,6-Tribromophenol	78.3	28.4-132		%REC	1	2/26/2010 11:54:43 AM
Surr: 2-Fluorobiphenyl	83.0	37.4-123		%REC	1	2/26/2010 11:54:43 AM
Surr: 2-Fluorophenol	79.5	28.6-110		%REC	1	2/26/2010 11:54:43 AM
Surr: 4-Terphenyl-d14	71.7	29.2-111		%REC	1	2/26/2010 11:54:43 AM
Surr: Nitrobenzene-d5	80.9	33.8-126		%REC	1	2/26/2010 11:54:43 AM
Surr: Phenol-d5	75.8	35.3-110		%REC	1	2/26/2010 11:54:43 AM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Toluene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Naphthalene	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	2/22/2010 12:46:03 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	2/22/2010 12:46:03 PM
Acetone	ND	0.75		mg/Kg	1	2/22/2010 12:46:03 PM
Bromobenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Bromoform	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Bromomethane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
2-Butanone	ND	0.50		mg/Kg	1	2/22/2010 12:46:03 PM
Carbon disulfide	ND	0.50		mg/Kg	1	2/22/2010 12:46:03 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
Chlorobenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Chloroethane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
Chloroform	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Chloromethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Dibromomethane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Mar-10

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Background

Lab Order: 1002391

Collection Date: 2/17/2010 9:00:00 AM

Project: Land Farms

Date Received: 2/19/2010

Lab ID: 1002391-01

Matrix: SOILL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
2-Hexanone	ND	0.50		mg/Kg	1	2/22/2010 12:46:03 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	2/22/2010 12:46:03 PM
Methylene chloride	ND	0.15		mg/Kg	1	2/22/2010 12:46:03 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Styrene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
Vinyl chloride	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
Surr: 1,2-Dichloroethane-d4	92.2	59.5-119		%REC	1	2/22/2010 12:46:03 PM
Surr: 4-Bromofluorobenzene	97.0	57.9-141		%REC	1	2/22/2010 12:46:03 PM
Surr: Dibromofluoromethane	99.7	65.4-122		%REC	1	2/22/2010 12:46:03 PM
Surr: Toluene-d8	91.0	81.1-112		%REC	1	2/22/2010 12:46:03 PM

EPA METHOD 418.1: TPH

Analyst: JB

Petroleum Hydrocarbons, TR ND 20 mg/Kg 1 2/23/2010

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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



LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1002391
Lab ID: C10020722-001
Client Sample ID: Background

Report Date: 03/12/10
Collection Date: 02/17/10 09:00
Date Received: 02/23/10
Matrix: Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
NON-METALS							
Cyanide, Total	ND	mg/kg		0.50		SW9012	03/01/10 13:05 / eli-b
RADIONUCLIDES - TOTAL							
Radium 226	1.5	pCi/g-dry			E903.0		03/10/10 13:09 / trs
Radium 226 precision (±)	0.2	pCi/g-dry			E903.0		03/10/10 13:09 / trs
Radium 226 MDC	0.06	pCi/g-dry			E903.0		03/10/10 13:09 / trs
Radium 228	1.1	pCi/g-dry			RA-05		03/05/10 11:20 / plj
Radium 228 precision (±)	0.4	pCi/g-dry			RA-05		03/05/10 11:20 / plj
Radium 228 MDC	0.6	pCi/g-dry			RA-05		03/05/10 11:20 / plj

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Hall Environmental

Project: 1002391

Report Date: 03/12/10

Work Order: C10020722

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: 25377		
Sample ID: C10020722-001AMS	Sample Matrix Spike				Run: G542M_100226C		03/10/10 13:09		
Radium 226	9.3	pCi/g-dry		104	70	130			
Sample ID: C10020722-001AMSD	Sample Matrix Spike Duplicate				Run: G542M_100226C		03/10/10 13:09		
Radium 226	9.1	pCi/g-dry		103	70	130	1.9	22.1	
Sample ID: LCS-25377	Laboratory Control Sample				Run: G542M_100226C		03/10/10 13:09		
Radium 226	1.6	pCi/g-dry		98	70	130			
Sample ID: MB-25377	Method Blank				Run: G542M_100226C		03/10/10 13:09		
Radium 226	6E-05	pCi/g-dry							U
Radium 226 precision (±)	0.0002	pCi/g-dry							
Radium 226 MDC	0.0003	pCi/g-dry							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Hall Environmental
Project: 1002391

Report Date: 03/12/10
Work Order: C10020722

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05									Batch: 25377
Sample ID: LCS-26377	Laboratory Control Sample								Run: TENNELEC-3_100226C 03/05/10 11:20
Radium 228	1.6	pCi/g-dry	107		70	130			
Sample ID: MB-25377	Method Blank								Run: TENNELEC-3_100226C 03/05/10 11:20
Radium 228	0.005	pCi/g-dry							
Radium 228 precision (±)	0.002	pCi/g-dry							
Radium 228 MDC	0.003	pCi/g-dry							
Sample ID: C10020722-001AMS	Sample Matrix Spike								Run: TENNELEC-3_100226C 03/05/10 11:20
Radium 228	9.0	pCi/g-dry	110		70	130			
Sample ID: C10020722-001AMSD	Sample Matrix Spike Duplicate								Run: TENNELEC-3_100226C 03/05/10 11:20
Radium 228	9.0	pCi/g-dry	107		70	130	0.5	32.6	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Hall Environmental
Project: 1002391

Report Date: 03/12/10
Work Order: C10020722

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW9012							Batch: B_44783		
Sample ID: LCS-44783	Laboratory Control Sample				Run: SUB-B143898		03/01/10 12:30		
Cyanide, Total	4.6	mg/kg	0.50	92	60	140			
Sample ID: MB-44783	Method Blank				Run: SUB-B143898		03/01/10 12:35		
Cyanide, Total	ND	mg/kg	0.5						
Sample ID: C10020722-001B	Sample Matrix Spike				Run: SUB-B143898		03/01/10 13:06		
Cyanide, Total	4.7	mg/kg	0.50	94	50	150			
Sample ID: C10020722-001B	Sample Matrix Spike Duplicate				Run: SUB-B143898		03/01/10 13:16		
Cyanide, Total	3.5	mg/kg	0.50	71	50	150	28	30	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Land Farms

Work Order: 1002391

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 300.0: Anions

Sample ID: MB-21439

MBLK

Batch ID: 21439 Analysis Date: 2/20/2010 10:40:27 AM

Fluoride ND mg/Kg 0.30

Chloride ND mg/Kg 1.5

Nitrogen, Nitrate (As N) ND mg/Kg 0.30

Sulfate ND mg/Kg 1.5

Sample ID: LCS-21439

LCS

Batch ID: 21439 Analysis Date: 2/20/2010 10:57:52 AM

Fluoride 1.551 mg/Kg 0.30 1.5 0 103 90 110

Chloride 14.08 mg/Kg 1.5 15 0 93.9 90 110

Nitrogen, Nitrate (As N) 7.248 mg/Kg 0.30 7.5 0 96.6 90 110

Sulfate 28.92 mg/Kg 1.5 30 0 96.4 90 110

Method: EPA Method 418.1: TPH

Sample ID: MB-21464

MBLK

Batch ID: 21464 Analysis Date: 2/23/2010

Petroleum Hydrocarbons, TR ND mg/Kg 20

Sample ID: LCS-21464

LCS

Batch ID: 21464 Analysis Date: 2/23/2010

Petroleum Hydrocarbons, TR 100.7 mg/Kg 20 100 0 101 82 114

Sample ID: LCSD-21464

LCSD

Batch ID: 21464 Analysis Date: 2/23/2010

Petroleum Hydrocarbons, TR 104.8 mg/Kg 20 100 0 105 82 114

Method: EPA Method 504.1 Modified: EDB

Sample ID: 1002391-01AMSD

MSD

Batch ID: 21511 Analysis Date: 3/1/2010 2:06:19 PM

1,2-Dibromoethane 1.055 µg/Kg 0.10 1 0 106 65.8 127 1.78 20

Sample ID: MB-21511

MBLK

Batch ID: 21511 Analysis Date: 3/1/2010 1:03:11 PM

1,2-Dibromoethane ND µg/Kg 0.10

Sample ID: LCS-21511

LCS

Batch ID: 21511 Analysis Date: 3/1/2010 1:15:50 PM

1,2-Dibromoethane 0.9170 µg/Kg 0.10 1 0 91.7 70 130

Sample ID: LCSD-21511

LCSD

Batch ID: 21511 Analysis Date: 3/1/2010 1:28:29 PM

1,2-Dibromoethane 1.001 µg/Kg 0.10 1 0 100 70 130 8.76 20

Sample ID: 1002391-01AMS

MS

Batch ID: 21511 Analysis Date: 3/1/2010 1:53:40 PM

1,2-Dibromoethane 1.074 µg/Kg 0.10 1 0 107 65.8 127

Method: EPA Method 8016B: Diesel Range Organics

Sample ID: MB-21442

MBLK

Batch ID: 21442 Analysis Date: 2/23/2010 7:40:12 AM

Diesel Range Organics (DRO) ND mg/Kg 10

Motor Oil Range Organics (MRO) ND mg/Kg 50

Sample ID: LCS-21442

LCS

Batch ID: 21442 Analysis Date: 2/23/2010 8:16:03 AM

Diesel Range Organics (DRO) 43.20 mg/Kg 10 50 0 86.4 64.6 116

Sample ID: LCSD-21442

LCSD

Batch ID: 21442 Analysis Date: 2/23/2010 8:51:46 AM

Diesel Range Organics (DRO) 41.16 mg/Kg 10 50 0 82.3 64.6 116 4.82 17.4

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Land Farms

Work Order: 1002391

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8015B: Gasoline Range

Sample ID: MB-21434

MBLK

Batch ID: 21434 Analysis Date: 2/25/2010 8:57:06 PM

Gasoline Range Organics (GRO) ND mg/Kg 5.0

Sample ID: 2.5UG GRO LCS

LCS

Batch ID: 21434 Analysis Date: 2/25/2010 8:26:49 PM

Gasoline Range Organics (GRO) 27.14 mg/Kg 5.0 25 1.98 101 77.7 135

Qualifiers:

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

Page 2

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: Land Farms

Work Order: 1002391

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: mb-21434

MBLK

Batch ID: 21434 Analysis Date: 2/22/2010 3:07:55 PM

Benzene	ND	mg/Kg	0.050
Toluene	ND	mg/Kg	0.050
Ethylbenzene	ND	mg/Kg	0.050
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.050
1,2,4-Trimethylbenzene	ND	mg/Kg	0.050
1,3,5-Trimethylbenzene	ND	mg/Kg	0.050
1,2-Dichloroethane (EDC)	ND	mg/Kg	0.050
1,2-Dibromoethane (EDB)	ND	mg/Kg	0.050
Naphthalene	ND	mg/Kg	0.10
1-Methylnaphthalene	ND	mg/Kg	0.20
2-Methylnaphthalene	ND	mg/Kg	0.20
Acetone	ND	mg/Kg	0.75
Bromobenzene	ND	mg/Kg	0.050
Bromodichloromethane	ND	mg/Kg	0.050
Bromoform	ND	mg/Kg	0.050
Bromomethane	ND	mg/Kg	0.10
n-Butanone	ND	mg/Kg	0.50
Carbon disulfide	ND	mg/Kg	0.50
Carbon tetrachloride	ND	mg/Kg	0.10
Chlorobenzene	ND	mg/Kg	0.050
Chloroethane	ND	mg/Kg	0.10
Chloroform	ND	mg/Kg	0.050
Chloromethane	ND	mg/Kg	0.050
Chlorotoluene	ND	mg/Kg	0.050
4-Chlorotoluene	ND	mg/Kg	0.050
cis-1,2-DCE	ND	mg/Kg	0.050
cis-1,3-Dichloropropene	ND	mg/Kg	0.050
1,2-Dibromo-3-chloropropane	ND	mg/Kg	0.10
Dibromochloromethane	ND	mg/Kg	0.050
Dibromomethane	ND	mg/Kg	0.10
1,2-Dichlorobenzene	ND	mg/Kg	0.050
1,3-Dichlorobenzene	ND	mg/Kg	0.050
1,4-Dichlorobenzene	ND	mg/Kg	0.050
1,1-Dichlorodifluoromethane	ND	mg/Kg	0.050
1,1-Dichloroethane	ND	mg/Kg	0.10
1,1-Dichloroethene	ND	mg/Kg	0.050
1,2-Dichloropropane	ND	mg/Kg	0.050
1,3-Dichloropropane	ND	mg/Kg	0.050
2,2-Dichloropropane	ND	mg/Kg	0.10
1,1-Dichloropropene	ND	mg/Kg	0.10
1,2,3,4-Tetrachlorobutadiene	ND	mg/Kg	0.10
2-Hexanone	ND	mg/Kg	0.50
Isopropylbenzene	ND	mg/Kg	0.050
Isopropyltoluene	ND	mg/Kg	0.050

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded.

NC Non-Chlorinated

R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Land Farms

Work Order: 1002391

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: mb-21434

MBLK

Batch ID: 21434 Analysis Date: 2/22/2010 3:07:55 PM

4-Methyl-2-pentanone	ND	mg/Kg	0.50
Methylene chloride	ND	mg/Kg	0.15
n-Butylbenzene	ND	mg/Kg	0.050
n-Propylbenzene	ND	mg/Kg	0.050
sec-Butylbenzene	ND	mg/Kg	0.050
Styrene	ND	mg/Kg	0.050
tert-Butylbenzene	ND	mg/Kg	0.050
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.050
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.050
Tetrachloroethene (PCE)	ND	mg/Kg	0.050
trans-1,2-DCE	ND	mg/Kg	0.050
trans-1,3-Dichloropropene	ND	mg/Kg	0.050
1,2,3-Trichlorobenzene	ND	mg/Kg	0.10
1,2,4-Trichlorobenzene	ND	mg/Kg	0.050
1,1,1-Trichloroethane	ND	mg/Kg	0.050
1,1,2-Trichloroethane	ND	mg/Kg	0.050
Trichloroethene (TCE)	ND	mg/Kg	0.050
Trichlorofluoromethane	ND	mg/Kg	0.050
1,2,3-Trichloropropane	ND	mg/Kg	0.10
Vinyl chloride	ND	mg/Kg	0.050
Xylenes, Total	ND	mg/Kg	0.10

Sample ID: lcs-21434

LCS

Batch ID: 21434 Analysis Date: 2/22/2010 2:39:35 PM

Benzene	1.008	mg/Kg	0.050	1	0	101	84.5	114
Toluene	1.083	mg/Kg	0.050	1	0	108	85.4	109
Chlorobenzene	1.103	mg/Kg	0.050	1	0.0058	110	86.8	110
1,1-Dichloroethene	1.088	mg/Kg	0.050	1	0	109	74.4	129
Trichloroethene (TCE)	1.045	mg/Kg	0.050	1	0	104	77.8	114

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: Land Farms

Work Order: 1002391

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8270C: Semivolatiles

Sample ID: 1002391-01Amsd

MSD

Batch ID: 21451 Analysis Date: 2/26/2010 12:53:40 PM

4-Chloro-3-methylphenol	2.568	mg/Kg	0.50	3.33	0	77.1	14.6	154	4.54	30	
2-Chlorophenol	2.363	mg/Kg	0.20	3.33	0	71.0	13.3	149	3.37	30	
3-Nitrophenol	2.699	mg/Kg	0.20	3.33	0	81.0	13.1	150	0.185	0	
Pentachlorophenol	2.549	mg/Kg	0.40	3.33	0	76.5	20.1	139	7.40	30	
Phenol	2.509	mg/Kg	0.20	3.33	0	75.4	17.3	141	0.293	30	

Sample ID: mb-21451

MBLK

Batch ID: 21451 Analysis Date: 2/26/2010 10:54:22 AM

4-Chloro-3-methylphenol	ND	mg/Kg	0.50								
2-Chlorophenol	ND	mg/Kg	0.20								
2,4-Dichlorophenol	ND	mg/Kg	0.40								
2,4-Dimethylphenol	ND	mg/Kg	0.30								
4,6-Dinitro-2-methylphenol	ND	mg/Kg	0.50								
2,4-Dinitrophenol	ND	mg/Kg	0.40								
2-Methylphenol	ND	mg/Kg	0.50								
3+4-Methylphenol	ND	mg/Kg	0.20								
2-Nitrophenol	ND	mg/Kg	0.20								
3-Nitrophenol	ND	mg/Kg	0.20								
Pentachlorophenol	ND	mg/Kg	0.40								
Phenol	ND	mg/Kg	0.20								
2,4,5-Trichlorophenol	ND	mg/Kg	0.20								
2,4,6-Trichlorophenol	ND	mg/Kg	0.20								

Sample ID: lcs-21451

LCS

Batch ID: 21451 Analysis Date: 2/26/2010 1:23:08 PM

4-Chloro-3-methylphenol	2.838	mg/Kg	0.50	3.33	0	85.2	40.1	98.6			
2-Chlorophenol	2.598	mg/Kg	0.20	3.33	0	78.0	32.2	94.6			
4-Nitrophenol	1.868	mg/Kg	0.20	3.33	0	56.1	18.1	122			
Pentachlorophenol	3.013	mg/Kg	0.40	3.33	0	90.5	37.5	98.8			
Phenol	1.660	mg/Kg	0.20	3.33	0	49.8	29	96			

Sample ID: 1002391-01Ams

MS

Batch ID: 21451 Analysis Date: 2/26/2010 12:24:15 PM

4-Chloro-3-methylphenol	2.454	mg/Kg	0.50	3.33	0	73.7	14.6	154			
2-Chlorophenol	2.444	mg/Kg	0.20	3.33	0	73.4	13.3	149			
3-Nitrophenol	2.704	mg/Kg	0.20	3.33	0	81.2	13.1	150			
Pentachlorophenol	2.745	mg/Kg	0.40	3.33	0	82.4	20.1	139			
Phenol	2.502	mg/Kg	0.20	3.33	0	75.1	17.3	141			

Method: EPA Method 7471: Mercury

Sample ID: 1002391-01BMSD

MSD

Batch ID: 21525 Analysis Date: 3/3/2010 1:06:27 PM

Mercury	0.1736	mg/Kg	0.033	0.164	0.0052	103	75	125	2.84	20	
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Sample ID: MB-21525

MBLK

Batch ID: 21525 Analysis Date: 3/3/2010 12:59:28 PM

Mercury	ND	mg/Kg	0.033								
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Sample ID: LCS-21525

LCS

Batch ID: 21525 Analysis Date: 3/3/2010 1:01:12 PM

Mercury	0.1676	mg/Kg	0.033	0.167	0.0006	100	80	120			
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Sample ID: 1002391-01BMS

MS

Batch ID: 21525 Analysis Date: 3/3/2010 1:04:42 PM

Mercury	0.1786	mg/Kg	0.033	0.166	0.0052	104	75	125			
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Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Land Farms

Work Order: 1002391

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 6010B: Soil Metals

Sample ID: 1002391-01BMSD

MSD

Batch ID: 21509

Analysis Date:

3/1/2010 5:19:37 PM

Arsenic	20.63	mg/Kg	13	23.91	0	86.3	75	125	0.235	20	
Cadmium	23.92	mg/Kg	0.50	23.91	0	100	75	125	4.51	20	
Chromium	30.60	mg/Kg	1.5	23.91	8.003	94.5	75	125	4.03	20	
Copper	26.43	mg/Kg	1.5	23.91	3.95	94.0	75	125	4.76	20	
Selenium	20.23	mg/Kg	13	23.91	0	84.6	75	125	12.2	20	
Silver	23.72	mg/Kg	1.3	23.91	0	99.2	75	125	3.85	20	

Sample ID: MB-21509

MBLK

Batch ID: 21509

Analysis Date:

3/1/2010 5:00:24 PM

Arsenic	ND	mg/Kg	2.5								
Barium	ND	mg/Kg	0.10								
Cadmium	ND	mg/Kg	0.10								
Chromium	ND	mg/Kg	0.30								
Copper	ND	mg/Kg	0.30								
Selenium	ND	mg/Kg	2.5								
Silver	ND	mg/Kg	0.25								

Sample ID: MB-21509

MBLK

Batch ID: 21509

Analysis Date:

3/3/2010 9:37:19 AM

Uranium	ND	mg/Kg	5.0								
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Sample ID: LCS-21509

LCS

Batch ID: 21509

Analysis Date:

3/1/2010 5:02:51 PM

Arsenic	24.39	mg/Kg	2.5	25	0	97.6	80	120			
Barium	24.70	mg/Kg	0.10	25	0	98.8	80	120			
Cadmium	24.02	mg/Kg	0.10	25	0	96.1	80	120			
Chromium	24.71	mg/Kg	0.30	25	0	98.8	80	120			
Copper	25.63	mg/Kg	0.30	25	0.1818	102	80	120			
Selenium	24.66	mg/Kg	2.5	25	0	98.6	80	120			
Silver	24.85	mg/Kg	0.25	25	0.1556	98.8	80	120			

Sample ID: LCS-21509

LCS

Batch ID: 21509

Analysis Date:

3/3/2010 9:39:43 AM

Uranium	28.97	mg/Kg	5.0	25	0	116	80	120			
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Sample ID: 1002391-01BMS

MS

Batch ID: 21509

Analysis Date:

3/1/2010 5:17:10 PM

Arsenic	20.67	mg/Kg	13	24.3	0	85.1	75	125			
Cadmium	22.87	mg/Kg	0.50	24.3	0	94.1	75	125			
Chromium	29.39	mg/Kg	1.5	24.3	8.003	88.0	75	125			
Copper	25.20	mg/Kg	1.5	24.3	3.95	87.5	75	125			
Selenium	17.90	mg/Kg	13	24.3	0	73.7	75	125			S
Silver	22.82	mg/Kg	1.3	24.3	0	93.9	75	125			

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GATLU

Date Received:

2/19/2010

Work Order Number 1002391

Received by: TLS

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name FedEx

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Not Shipped ☐

Custody seals intact on sample bottles?

Yes ☒

No ☐

N/A ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☒

Yes ☐

No ☐

Water - Preservation labels on bottle and cap match?

Yes ☐

No ☐

N/A ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

Container/Temp Blank temperature?

5.1°

<6° C Acceptable

If given sufficient time to cool.

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

per CR analyze for Ar 2/19/10

Corrective Action

Chain-of-Custody Record

Client: WESTERN REFINING

Address: GALLUP

Phone #: 505 722 3833

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

☐ Other

☐ EDD (Type) _____

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

LAND FARMS

Project #:

BACKGROUND

Project Manager:

G. RAJEN

Sampler:

On the Dyes
Sample Temperature

Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
2/17	9:00AM	BACKGROUND	1802	NONE	10023901
			1802	NONE	-1
			1802	NONE	-1

2/19/10
HEAL No. 10023901

Date: 2/18 Time: 9:00

Relinquished by: ALVIN DORSEY

Received by: [Signature] 2/19/10

Date: _____ Time: _____

Relinquished by: _____

Received by: _____

Remarks:

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

☒ BTEX + MTBE + TPH (Gas only)	☒ BTEX + MTBE + TPH (Gas/Diesel)	☒ TPH (Method 418.1)	☒ EDB (Method 504.1)	☒ EDC (Method 8260)	☒ 8310 (PNA or PAH)	☒ Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	☒ 8081 Pesticides / 8082 PCBs	☒ 8260B (VOA)	☒ 8270 (Semi-VOA)	☒ U.C. 6010/7431	☒ PHENOLS 420.3	☒ Radium 226/228	☒ 901.1	☒ Air Bubbles (Y or N)
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COVER LETTER

Wednesday, May 04, 2011

Ed Riege
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833

FAX (505) 722-0210

RE: Gallup OCD Landfarms

Order No.: 1104008

Dear Ed Riege:

Hall Environmental Analysis Laboratory, Inc. received 18 sample(s) on 3/31/2011 for the analyses presented in the following report.

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

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

Sincerely,

Andy Freeman, Laboratory Manager

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



Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Project: Gallup OCD Landfarms
Lab Order: 1104008

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Batch ID	Test Name	Collection Date
1104008-01A	BG-NE-033011	26291	EPA Method 300.0: Anions	3/30/2011 12:10:00 PM
1104008-01A	BG-NE-033011	26348	EPA Method 8310: PAHs	3/30/2011 12:10:00 PM
1104008-01A	BG-NE-033011	26347	EPA Method 504.1 Modified: EDB	3/30/2011 12:10:00 PM
1104008-01A	BG-NE-033011	26253	EPA Method 7471: Mercury	3/30/2011 12:10:00 PM
1104008-01A	BG-NE-033011	26291	EPA Method 300.0: Anions	3/30/2011 12:10:00 PM
1104008-01A	BG-NE-033011	26239	EPA Method 8260B: VOLATILES	3/30/2011 12:10:00 PM
1104008-01A	BG-NE-033011	26243	EPA Method 8270C: Semivolatiles	3/30/2011 12:10:00 PM
1104008-01A	BG-NE-033011	26241	EPA Method 8082: PCB's	3/30/2011 12:10:00 PM
1104008-01A	BG-NE-033011	26237	EPA Method 6010B: Soil Metals	3/30/2011 12:10:00 PM
1104008-01A	BG-NE-033011	26237	EPA Method 6010B: Soil Metals	3/30/2011 12:10:00 PM
1104008-01A	BG-NE-033011	26237	EPA Method 6010B: Soil Metals	3/30/2011 12:10:00 PM
1104008-01A	BG-NE-033011	26237	EPA Method 6010B: Soil Metals	3/30/2011 12:10:00 PM
1104008-01A	BG-NE-033011	R44664	SM4500-H+B: pH	3/30/2011 12:10:00 PM
1104008-01B	BG-NE-033011	R44992	CYANIDE-TOTAL	3/30/2011 12:10:00 PM
1104008-01C	BG-NE-033011	R45118	EPA 903.1: Ra 226 and EPA 904.0: Ra 2	3/30/2011 12:10:00 PM
1104008-02A	BG-W-033011	26237	EPA Method 6010B: Soil Metals	3/30/2011 1:15:00 PM
1104008-02A	BG-W-033011	26291	EPA Method 300.0: Anions	3/30/2011 1:15:00 PM
1104008-02A	BG-W-033011	26291	EPA Method 300.0: Anions	3/30/2011 1:15:00 PM
1104008-02A	BG-W-033011	26291	EPA Method 300.0: Anions	3/30/2011 1:15:00 PM
1104008-02A	BG-W-033011	26237	EPA Method 6010B: Soil Metals	3/30/2011 1:15:00 PM
1104008-02A	BG-W-033011	26253	EPA Method 7471: Mercury	3/30/2011 1:15:00 PM
1104008-02A	BG-W-033011	26237	EPA Method 6010B: Soil Metals	3/30/2011 1:15:00 PM
1104008-02A	BG-W-033011	26237	EPA Method 6010B: Soil Metals	3/30/2011 1:15:00 PM
1104008-03A	BG-S-033011	26237	EPA Method 6010B: Soil Metals	3/30/2011 2:10:00 PM
1104008-03A	BG-S-033011	26291	EPA Method 300.0: Anions	3/30/2011 2:10:00 PM
1104008-03A	BG-S-033011	26291	EPA Method 300.0: Anions	3/30/2011 2:10:00 PM
1104008-03A	BG-S-033011	26237	EPA Method 6010B: Soil Metals	3/30/2011 2:10:00 PM
1104008-03A	BG-S-033011	26237	EPA Method 6010B: Soil Metals	3/30/2011 2:10:00 PM
1104008-03A	BG-S-033011	26237	EPA Method 6010B: Soil Metals	3/30/2011 2:10:00 PM
1104008-03A	BG-S-033011	26253	EPA Method 7471: Mercury	3/30/2011 2:10:00 PM
1104008-03A	BG-S-033011	26291	EPA Method 300.0: Anions	3/30/2011 2:10:00 PM
1104008-04A	CentralOCD-Close-0	26315	Volatiles by 8260B/1311	3/30/2011 4:30:00 PM
1104008-04B	CentralOCD-Close-0	R44744	EPA Method 8260B: VOLATILES	4/8/2011
1104008-04C	CentralOCD-Close-0	26414	EPA Method 8011/504.1: EDB	4/8/2011
1104008-04D	CentralOCD-Close-0	26425	EPA Method 8082: PCB's	4/8/2011
1104008-04D	CentralOCD-Close-0	26424	EPA Method 8310: PAHs	4/8/2011
1104008-04E	CentralOCD-Close-0	26405	Total Phenolics	4/8/2011
1104008-04F	CentralOCD-Close-0	26407	EPA Method 200.7: Metals	4/8/2011

CLIENT: Western Refining Southwest, Gallup
Project: Gallup OCD Landfarms
Lab Order: 1104008

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Batch ID	Test Name	Collection Date
1104008-04F	CentralOCD-Close-0	26407	EPA Method 200.7: Metals	4/8/2011
1104008-04F	CentralOCD-Close-0	26593	EPA Method 245.1: Mercury	4/8/2011
1104008-04G	CentralOCD-Close-0	26401	SM2540C MOD: Total Dissolved Solids	4/8/2011
1104008-04G	CentralOCD-Close-0	R44785	EPA Method 300.0: Anions	4/8/2011
1104008-04G	CentralOCD-Close-0	R44769	SM4500-H+B: pH	4/8/2011
1104008-04G	CentralOCD-Close-0	R44750	EPA Method 300.0: Anions	4/8/2011
1104008-04G	CentralOCD-Close-0	R44750	EPA Method 300.0: Anions	4/8/2011
1104008-04G	CentralOCD-Close-0	R44785	EPA Method 300.0: Anions	4/8/2011
1104008-04H	CentralOCD-Close-0	R44992	EPA 335.4: Total Cyanide Subbed	4/8/2011
1104008-05B	NEOCD-Close-0330	R44669	EPA Method 300.0: Anions	4/8/2011
1104008-05B	NEOCD-Close-0330	R44669	EPA Method 300.0: Anions	4/8/2011
1104008-05B	NEOCD-Close-0330	R44698	EPA Method 300.0: Anions	4/8/2011
1104008-05C	NEOCD-Close-0330	26389	EPA Method 200.7: Metals	4/8/2011
1104008-05C	NEOCD-Close-0330	26389	EPA Method 200.7: Metals	4/8/2011
1104008-05C	NEOCD-Close-0330	26389	EPA Method 200.7: Metals	4/8/2011
1104008-06A	EB-033011	R44594	EPA Method 8260B: VOLATILES	3/30/2011 6:00:00 PM
1104008-07A	FB-033-11	R44594	EPA Method 8260B: VOLATILES	3/30/2011 6:05:00 PM
1104008-08A	Central OCD-01-033	26239	EPA Method 8021B: Volatiles	3/31/2011 10:30:00 AM
1104008-08A	Central OCD-01-033	26291	EPA Method 300.0: Anions	3/31/2011 10:30:00 AM
1104008-08A	Central OCD-01-033	26291	EPA Method 300.0: Anions	3/31/2011 10:30:00 AM
1104008-08A	Central OCD-01-033	26239	EPA Method 8015B: Gasoline Range	3/31/2011 10:30:00 AM
1104008-08A	Central OCD-01-033	26269	EPA Method 418.1: TPH	3/31/2011 10:30:00 AM
1104008-08A	Central OCD-01-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 10:30:00 AM
1104008-08A	Central OCD-01-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 10:30:00 AM
1104008-08A	Central OCD-01-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 10:30:00 AM
1104008-08A	Central OCD-01-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 10:30:00 AM
1104008-08A	Central OCD-01-033	26252	EPA Method 8015B: Diesel Range Orga	3/31/2011 10:30:00 AM
1104008-08B	Central OCD-01-033	R45118	EPA 903.1: Ra 226 and EPA 904.0: Ra 2	3/31/2011 10:30:00 AM
1104008-09A	Central OCD-02-033	26239	EPA Method 8015B: Gasoline Range	3/31/2011 11:00:00 AM
1104008-09A	Central OCD-02-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:00:00 AM
1104008-09A	Central OCD-02-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:00:00 AM
1104008-09A	Central OCD-02-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:00:00 AM
1104008-09A	Central OCD-02-033	26239	EPA Method 8021B: Volatiles	3/31/2011 11:00:00 AM
1104008-09A	Central OCD-02-033	26252	EPA Method 8015B: Diesel Range Orga	3/31/2011 11:00:00 AM
1104008-09A	Central OCD-02-033	26291	EPA Method 300.0: Anions	3/31/2011 11:00:00 AM
1104008-09A	Central OCD-02-033	26291	EPA Method 300.0: Anions	3/31/2011 11:00:00 AM
1104008-09A	Central OCD-02-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:00:00 AM
1104008-09B	Central OCD-02-033	R45118	EPA 903.1: Ra 226 and EPA 904.0: Ra 2	3/31/2011 11:00:00 AM
1104008-10A	Central OCD-03-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:35:00 AM
1104008-10A	Central OCD-03-033	26291	EPA Method 300.0: Anions	3/31/2011 11:35:00 AM

CLIENT: Western Refining Southwest, Gallup
Project: Gallup OCD Landfarms
Lab Order: 1104008

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Batch ID	Test Name	Collection Date
1104008-10A	Central OCD-03-033	26291	EPA Method 300.0: Anions	3/31/2011 11:35:00 AM
1104008-10A	Central OCD-03-033	26252	EPA Method 8015B: Diesel Range Orga	3/31/2011 11:35:00 AM
1104008-10A	Central OCD-03-033	26239	EPA Method 8021B: Volatiles	3/31/2011 11:35:00 AM
1104008-10A	Central OCD-03-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:35:00 AM
1104008-10A	Central OCD-03-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:35:00 AM
1104008-10A	Central OCD-03-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:35:00 AM
1104008-10A	Central OCD-03-033	26239	EPA Method 8015B: Gasoline Range	3/31/2011 11:35:00 AM
1104008-10B	Central OCD-03-033	R45118	EPA 903.1: Ra 226 and EPA 904.0: Ra 2	3/31/2011 11:35:00 AM
1104008-11A	Central OCD-04-033	26239	EPA Method 8021B: Volatiles	3/31/2011 11:20:00 AM
1104008-11A	Central OCD-04-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:20:00 AM
1104008-11A	Central OCD-04-033	26291	EPA Method 300.0: Anions	3/31/2011 11:20:00 AM
1104008-11A	Central OCD-04-033	26291	EPA Method 300.0: Anions	3/31/2011 11:20:00 AM
1104008-11A	Central OCD-04-033	26239	EPA Method 8015B: Gasoline Range	3/31/2011 11:20:00 AM
1104008-11A	Central OCD-04-033	26252	EPA Method 8015B: Diesel Range Orga	3/31/2011 11:20:00 AM
1104008-11A	Central OCD-04-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:20:00 AM
1104008-11A	Central OCD-04-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:20:00 AM
1104008-11A	Central OCD-04-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:20:00 AM
1104008-11B	Central OCD-04-033	R45118	EPA 903.1: Ra 226 and EPA 904.0: Ra 2	3/31/2011 11:20:00 AM
1104008-12A	NE OCD-01-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 8:45:00 AM
1104008-12A	NE OCD-01-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 8:45:00 AM
1104008-12A	NE OCD-01-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 8:45:00 AM
1104008-12A	NE OCD-01-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 8:45:00 AM
1104008-12A	NE OCD-01-033111	26291	EPA Method 300.0: Anions	3/31/2011 8:45:00 AM
1104008-12A	NE OCD-01-033111	26291	EPA Method 300.0: Anions	3/31/2011 8:45:00 AM
1104008-12B	NE OCD-01-033111	R45118	EPA 903.1: Ra 226 and EPA 904.0: Ra 2	3/31/2011 8:45:00 AM
1104008-13A	NE OCD-02-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 9:00:00 AM
1104008-13A	NE OCD-02-033111	26291	EPA Method 300.0: Anions	3/31/2011 9:00:00 AM
1104008-13A	NE OCD-02-033111	26291	EPA Method 300.0: Anions	3/31/2011 9:00:00 AM
1104008-13A	NE OCD-02-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 9:00:00 AM
1104008-13A	NE OCD-02-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 9:00:00 AM
1104008-13A	NE OCD-02-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 9:00:00 AM
1104008-13B	NE OCD-02-033111	R45118	EPA 903.1: Ra 226 and EPA 904.0: Ra 2	3/31/2011 9:00:00 AM
1104008-14A	NE OCD-03-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 9:25:00 AM
1104008-14A	NE OCD-03-033111	26291	EPA Method 300.0: Anions	3/31/2011 9:25:00 AM
1104008-14A	NE OCD-03-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 9:25:00 AM
1104008-14A	NE OCD-03-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 9:25:00 AM
1104008-14A	NE OCD-03-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 9:25:00 AM
1104008-14A	NE OCD-03-033111	26291	EPA Method 300.0: Anions	3/31/2011 9:25:00 AM
1104008-14B	NE OCD-03-033111	R45118	EPA 903.1: Ra 226 and EPA 904.0: Ra 2	3/31/2011 9:25:00 AM
1104008-15A	NE OCD-04-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 9:40:00 AM

CLIENT: Western Refining Southwest, Gallup
Project: Gallup OCD Landfarms
Lab Order: 1104008

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Batch ID	Test Name	Collection Date
1104008-15A	NE OCD-04-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 9:40:00 AM
1104008-15A	NE OCD-04-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 9:40:00 AM
1104008-15A	NE OCD-04-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 9:40:00 AM
1104008-15A	NE OCD-04-033111	26291	EPA Method 300.0: Anions	3/31/2011 9:40:00 AM
1104008-15B	NE OCD-04-033111	R45118	EPA 903.1: Ra 226 and EPA 904.0: Ra 2	3/31/2011 9:40:00 AM
1104008-16A	Trip Blank	R44594	EPA Method 8260B: VOLATILES	
1104008-17A	BD-02-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011
1104008-17A	BD-02-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011
1104008-17A	BD-02-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011
1104008-17A	BD-02-033111	26291	EPA Method 300.0: Anions	3/31/2011
1104008-17A	BD-02-033111	26291	EPA Method 300.0: Anions	3/31/2011
1104008-17A	BD-02-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011
1104008-17B	BD-02-033111	R45118	EPA 903.1: Ra 226 and EPA 904.0: Ra 2	3/31/2011
1104008-18A	BD-01-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011
1104008-18A	BD-01-033111	26291	EPA Method 300.0: Anions	3/31/2011
1104008-18A	BD-01-033111	26291	EPA Method 300.0: Anions	3/31/2011
1104008-18A	BD-01-033111	26239	EPA Method 8015B: Gasoline Range	3/31/2011
1104008-18A	BD-01-033111	26239	EPA Method 8021B: Volatiles	3/31/2011
1104008-18A	BD-01-033111	26252	EPA Method 8015B: Diesel Range Orga	3/31/2011
1104008-18A	BD-01-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011
1104008-18A	BD-01-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011
1104008-18A	BD-01-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011
1104008-18B	BD-01-033111	R45118	EPA 903.1: Ra 226 and EPA 904.0: Ra 2	3/31/2011

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-01

Client Sample ID: BG-NE-033011
Collection Date: 3/30/2011 12:10:00 PM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 504.1 MODIFIED: EDB						Analyst: LRW
1,2-Dibromoethane	ND	0.10		µg/Kg	1	4/11/2011 8:04:28 PM
Surr: 1,2,3-Trichloropropane	102	48.2-131		%REC	1	4/11/2011 8:04:28 PM
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	4/5/2011 5:47:47 PM
Aroclor 1221	ND	0.020		mg/Kg	1	4/5/2011 5:47:47 PM
Aroclor 1232	ND	0.020		mg/Kg	1	4/5/2011 5:47:47 PM
Aroclor 1242	ND	0.020		mg/Kg	1	4/5/2011 5:47:47 PM
Aroclor 1248	ND	0.020		mg/Kg	1	4/5/2011 5:47:47 PM
Aroclor 1254	ND	0.020		mg/Kg	1	4/5/2011 5:47:47 PM
Aroclor 1260	ND	0.020		mg/Kg	1	4/5/2011 5:47:47 PM
Surr: Decachlorobiphenyl	79.2	20.8-136		%REC	1	4/5/2011 5:47:47 PM
EPA METHOD 8310: PAHS						Analyst: SCC
Naphthalene	ND	0.25		mg/Kg	1	4/13/2011 1:50:59 PM
1-Methylnaphthalene	ND	0.25		mg/Kg	1	4/13/2011 1:50:59 PM
2-Methylnaphthalene	ND	0.25		mg/Kg	1	4/13/2011 1:50:59 PM
Acenaphthylene	ND	0.25		mg/Kg	1	4/13/2011 1:50:59 PM
Acenaphthene	ND	0.25		mg/Kg	1	4/13/2011 1:50:59 PM
Fluorene	ND	0.030		mg/Kg	1	4/13/2011 1:50:59 PM
Phenanthrene	ND	0.015		mg/Kg	1	4/13/2011 1:50:59 PM
Anthracene	ND	0.015		mg/Kg	1	4/13/2011 1:50:59 PM
Fluoranthene	ND	0.020		mg/Kg	1	4/13/2011 1:50:59 PM
Pyrene	ND	0.025		mg/Kg	1	4/13/2011 1:50:59 PM
Benz(a)anthracene	ND	0.010		mg/Kg	1	4/13/2011 1:50:59 PM
Chrysene	ND	0.011		mg/Kg	1	4/13/2011 1:50:59 PM
Benzo(b)fluoranthene	ND	0.010		mg/Kg	1	4/13/2011 1:50:59 PM
Benzo(k)fluoranthene	ND	0.010		mg/Kg	1	4/13/2011 1:50:59 PM
Benzo(a)pyrene	ND	0.010		mg/Kg	1	4/13/2011 1:50:59 PM
Dibenz(a,h)anthracene	ND	0.010		mg/Kg	1	4/13/2011 1:50:59 PM
Benzo(g,h,i)perylene	ND	0.010		mg/Kg	1	4/13/2011 1:50:59 PM
Indeno(1,2,3-cd)pyrene	ND	0.10		mg/Kg	1	4/13/2011 1:50:59 PM
Surr: Benzo(e)pyrene	82.7	37.6-115		%REC	1	4/13/2011 1:50:59 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	4.3	1.5		mg/Kg	5	4/8/2011 4:23:25 PM
Chloride	7.6	7.5		mg/Kg	5	4/8/2011 4:23:25 PM
Nitrogen, Nitrate (As N)	ND	1.5		mg/Kg	5	4/8/2011 4:23:25 PM
Sulfate	42	7.5		mg/Kg	5	4/8/2011 4:23:25 PM
EPA METHOD 7471: MERCURY						Analyst: ELS

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1104008
 Project: Gallup OCD Landfarms
 Lab ID: 1104008-01

Client Sample ID: BG-NE-033011
 Collection Date: 3/30/2011 12:10:00 PM
 Date Received: 3/31/2011
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	4/5/2011 12:42:41 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGE
Arsenic	ND	13		mg/Kg	5	4/5/2011 11:29:42 AM
Barium	380	1.0		mg/Kg	10	4/5/2011 1:08:39 PM
Cadmium	ND	0.50		mg/Kg	5	4/5/2011 11:29:42 AM
Chromium	17	1.5		mg/Kg	5	4/5/2011 11:29:42 AM
Copper	4.2	1.5		mg/Kg	5	4/5/2011 11:29:42 AM
Iron	20000	500		mg/Kg	500	4/5/2011 1:12:54 PM
Lead	6.0	1.3		mg/Kg	5	4/5/2011 11:29:42 AM
Manganese	370	1.0		mg/Kg	10	4/5/2011 1:08:39 PM
Selenium	ND	13		mg/Kg	5	4/5/2011 11:29:42 AM
Silver	ND	1.3		mg/Kg	5	4/5/2011 11:29:42 AM
Uranium	ND	50		mg/Kg	10	4/5/2011 1:08:39 PM
Zinc	23	13		mg/Kg	5	4/5/2011 11:29:42 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	4/7/2011 6:29:37 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	4/7/2011 6:29:37 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	4/7/2011 6:29:37 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	4/7/2011 6:29:37 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	4/7/2011 6:29:37 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	4/7/2011 6:29:37 PM
2-Methylphenol	ND	0.50		mg/Kg	1	4/7/2011 6:29:37 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	4/7/2011 6:29:37 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	4/7/2011 6:29:37 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	4/7/2011 6:29:37 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	4/7/2011 6:29:37 PM
Phenol	ND	0.20		mg/Kg	1	4/7/2011 6:29:37 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	4/7/2011 6:29:37 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	4/7/2011 6:29:37 PM
Surr: 2,4,6-Tribromophenol	70.3	29.4-125		%REC	1	4/7/2011 6:29:37 PM
Surr: 2-Fluorobiphenyl	62.1	21-131		%REC	1	4/7/2011 6:29:37 PM
Surr: 2-Fluorophenol	64.5	25.7-110		%REC	1	4/7/2011 6:29:37 PM
Surr: 4-Terphenyl-d14	43.9	36.2-172		%REC	1	4/7/2011 6:29:37 PM
Surr: Nitrobenzene-d5	62.4	23.2-122		%REC	1	4/7/2011 6:29:37 PM
Surr: Phenol-d5	71.4	25.2-114		%REC	1	4/7/2011 6:29:37 PM
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Toluene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1104008
 Project: Gallup OCD Landfarms
 Lab ID: 1104008-01

Client Sample ID: BG-NE-033011
 Collection Date: 3/30/2011 12:10:00 PM
 Date Received: 3/31/2011
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Ethylbenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Naphthalene	ND	0.10		mg/Kg	1	4/7/2011 6:08:04 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	4/7/2011 6:08:04 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	4/7/2011 6:08:04 PM
Acetone	ND	0.75		mg/Kg	1	4/7/2011 6:08:04 PM
Bromobenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Bromoform	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Bromomethane	ND	0.15		mg/Kg	1	4/7/2011 6:08:04 PM
2-Butanone	ND	0.50		mg/Kg	1	4/7/2011 6:08:04 PM
Carbon disulfide	ND	0.50		mg/Kg	1	4/7/2011 6:08:04 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	4/7/2011 6:08:04 PM
Chlorobenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Chloroethane	ND	0.10		mg/Kg	1	4/7/2011 6:08:04 PM
Chloroform	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Chloromethane	ND	0.15		mg/Kg	1	4/7/2011 6:08:04 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	4/7/2011 6:08:04 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Dibromomethane	ND	0.10		mg/Kg	1	4/7/2011 6:08:04 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	4/7/2011 6:08:04 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	4/7/2011 6:08:04 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	4/7/2011 6:08:04 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	4/7/2011 6:08:04 PM
2-Hexanone	ND	0.50		mg/Kg	1	4/7/2011 6:08:04 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-01

Client Sample ID: BG-NE-033011
Collection Date: 3/30/2011 12:10:00 PM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
4-Isopropyltoluene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	4/7/2011 6:08:04 PM
Methylene chloride	ND	0.15		mg/Kg	1	4/7/2011 6:08:04 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Styrene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	4/7/2011 6:08:04 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	4/7/2011 6:08:04 PM
Vinyl chloride	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/7/2011 6:08:04 PM
Surr: 1,2-Dichloroethane-d4	76.4	49.2-130		%REC	1	4/7/2011 6:08:04 PM
Surr: 4-Bromofluorobenzene	99.9	68.3-124		%REC	1	4/7/2011 6:08:04 PM
Surr: Dibromofluoromethane	78.2	65.5-126		%REC	1	4/7/2011 6:08:04 PM
Surr: Toluene-d8	93.0	87.6-115		%REC	1	4/7/2011 6:08:04 PM
SM4500-H+B: PH						Analyst: KS
pH	9.03	0.100		pH Units	1	4/11/2011 3:39:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-02

Client Sample ID: BG-W-033011
Collection Date: 3/30/2011 1:15:00 PM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	2.4	1.5		mg/Kg	5	4/13/2011 5:17:11 AM
Chloride	ND	7.5		mg/Kg	5	4/13/2011 5:17:11 AM
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	4/13/2011 5:17:11 AM
Nitrogen, Nitrate (As N)	3.0	1.5		mg/Kg	5	4/13/2011 5:17:11 AM
Sulfate	15	7.5		mg/Kg	5	4/13/2011 5:17:11 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	4/6/2011 12:51:48 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	4/5/2011 11:36:29 AM
Barium	380	1.0		mg/Kg	10	4/5/2011 1:23:44 PM
Cadmium	ND	0.50		mg/Kg	5	4/5/2011 11:36:29 AM
Chromium	16	1.5		mg/Kg	5	4/5/2011 11:36:29 AM
Copper	1.7	1.5		mg/Kg	5	4/5/2011 11:36:29 AM
Iron	19000	500		mg/Kg	500	4/5/2011 1:26:19 PM
Lead	8.2	1.3		mg/Kg	5	4/5/2011 11:36:29 AM
Manganese	370	1.0		mg/Kg	10	4/5/2011 1:23:44 PM
Selenium	ND	13		mg/Kg	5	4/5/2011 11:36:29 AM
Silver	ND	1.3		mg/Kg	5	4/5/2011 11:36:29 AM
Uranium	ND	50		mg/Kg	10	4/5/2011 1:23:44 PM
Zinc	20	13		mg/Kg	5	4/5/2011 11:36:29 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-03

Client Sample ID: BG-S-033011
Collection Date: 3/30/2011 2:10:00 PM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	1.8	1.5		mg/Kg	5	4/13/2011 5:34:36 AM
Chloride	ND	7.5		mg/Kg	5	4/13/2011 5:34:36 AM
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	4/13/2011 5:34:36 AM
Nitrogen, Nitrate (As N)	2.1	1.5		mg/Kg	5	4/13/2011 5:34:36 AM
Sulfate	11	7.5		mg/Kg	5	4/13/2011 5:34:36 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	4/5/2011 12:53:38 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	4/5/2011 11:51:22 AM
Barium	390	1.0		mg/Kg	10	4/5/2011 1:28:55 PM
Cadmium	ND	0.50		mg/Kg	5	4/5/2011 11:51:22 AM
Chromium	9.8	1.5		mg/Kg	5	4/5/2011 11:51:22 AM
Copper	1.9	1.5		mg/Kg	5	4/5/2011 11:51:22 AM
Iron	13000	500		mg/Kg	500	4/5/2011 1:31:30 PM
Lead	2.4	1.3		mg/Kg	5	4/5/2011 11:51:22 AM
Manganese	820	50		mg/Kg	500	4/5/2011 1:31:30 PM
Selenium	ND	13		mg/Kg	5	4/5/2011 11:51:22 AM
Silver	ND	1.3		mg/Kg	5	4/5/2011 11:51:22 AM
Uranium	ND	50		mg/Kg	10	4/5/2011 1:28:55 PM
Zinc	21	13		mg/Kg	5	4/5/2011 11:51:22 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-04

Client Sample ID: CentralOCD-Close-033011
Collection Date: 4/8/2011
Date Received: 3/31/2011
Matrix: LEACHATE

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8011/504.1: EDB						Analyst: JDC
1,2-Dibromoethane	ND	0.010		µg/L	1	4/14/2011 4:42:21 PM
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	1.0		µg/L	1	4/19/2011 9:22:46 PM
Aroclor 1221	ND	1.0		µg/L	1	4/19/2011 9:22:46 PM
Aroclor 1232	ND	1.0		µg/L	1	4/19/2011 9:22:46 PM
Aroclor 1242	ND	1.0		µg/L	1	4/19/2011 9:22:46 PM
Aroclor 1248	ND	1.0		µg/L	1	4/19/2011 9:22:46 PM
Aroclor 1254	ND	1.0		µg/L	1	4/19/2011 9:22:46 PM
Aroclor 1260	ND	1.0		µg/L	1	4/19/2011 9:22:46 PM
Surr: Decachlorobiphenyl	45.2	23.9-124		%REC	1	4/19/2011 9:22:46 PM
Surr: Tetrachloro-m-xylene	42.8	28.1-139		%REC	1	4/19/2011 9:22:46 PM
EPA METHOD 8310: PAHS						Analyst: SCC
Naphthalene	2.5	2.0		µg/L	1	4/21/2011 8:05:03 PM
1-Methylnaphthalene	ND	2.0		µg/L	1	4/21/2011 8:05:03 PM
2-Methylnaphthalene	ND	2.0		µg/L	1	4/21/2011 8:05:03 PM
Acenaphthylene	ND	2.5		µg/L	1	4/21/2011 8:05:03 PM
Acenaphthene	ND	5.0		µg/L	1	4/21/2011 8:05:03 PM
Fluorene	ND	0.80		µg/L	1	4/21/2011 8:05:03 PM
Phenanthrene	ND	0.60		µg/L	1	4/21/2011 8:05:03 PM
Anthracene	ND	0.60		µg/L	1	4/21/2011 8:05:03 PM
Fluoranthene	ND	0.30		µg/L	1	4/21/2011 8:05:03 PM
Pyrene	ND	0.30		µg/L	1	4/21/2011 8:05:03 PM
Benz(a)anthracene	0.070	0.070		µg/L	1	4/21/2011 8:05:03 PM
Chrysene	ND	0.20		µg/L	1	4/21/2011 8:05:03 PM
Benzo(b)fluoranthene	ND	0.10		µg/L	1	4/21/2011 8:05:03 PM
Benzo(k)fluoranthene	ND	0.070		µg/L	1	4/21/2011 8:05:03 PM
Benzo(a)pyrene	ND	0.070		µg/L	1	4/21/2011 8:05:03 PM
Dibenz(a,h)anthracene	ND	0.070		µg/L	1	4/21/2011 8:05:03 PM
Benzo(g,h,i)perylene	ND	0.080		µg/L	1	4/21/2011 8:05:03 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	4/21/2011 8:05:03 PM
Surr: Benzo(e)pyrene	79.8	26.9-103		%REC	1	4/21/2011 8:05:03 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	1.8	0.50		mg/L	5	4/16/2011 9:25:23 AM
Chloride	19	10		mg/L	20	4/14/2011 8:12:23 AM
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	4/16/2011 8:50:34 AM
Sulfate	220	2.5		mg/L	5	4/14/2011 7:54:58 AM
EPA METHOD 200.7: METALS						Analyst: RAGS

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-04

Client Sample ID: CentralOCD-Close-033011
Collection Date: 4/8/2011
Date Received: 3/31/2011
Matrix: LEACHATE

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 200.7: METALS						Analyst: RAGS
Barium	0.39	0.0020		mg/L	1	4/15/2011 4:09:13 PM
Cadmium	ND	0.0020		mg/L	1	4/15/2011 4:09:13 PM
Chromium	ND	0.0060		mg/L	1	4/15/2011 4:09:13 PM
Copper	0.016	0.0060		mg/L	1	4/15/2011 4:09:13 PM
Iron	0.020	0.020		mg/L	1	4/15/2011 4:09:13 PM
Lead	ND	0.0050		mg/L	1	4/15/2011 4:09:13 PM
Manganese	4.5	0.010		mg/L	5	4/19/2011 10:38:31 AM
Silver	ND	0.0050		mg/L	1	4/15/2011 4:09:13 PM
Zinc	0.14	0.010		mg/L	1	4/15/2011 4:09:13 PM
EPA METHOD 245.1: MERCURY						Analyst: MBR
Mercury	ND	0.00020		mg/L	1	4/28/2011 12:34:16 PM
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Toluene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Ethylbenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,2,4-Trimethylbenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,3,5-Trimethylbenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,2-Dichloroethane (EDC)	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,2-Dibromoethane (EDB)	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Naphthalene	ND	40		µg/L	20	4/14/2011 5:54:11 AM
1-Methylnaphthalene	ND	80		µg/L	20	4/14/2011 5:54:11 AM
2-Methylnaphthalene	ND	80		µg/L	20	4/14/2011 5:54:11 AM
Acetone	ND	200		µg/L	20	4/14/2011 5:54:11 AM
Bromobenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Bromodichloromethane	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Bromoform	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Bromomethane	ND	60		µg/L	20	4/14/2011 5:54:11 AM
2-Butanone	ND	200		µg/L	20	4/14/2011 5:54:11 AM
Carbon disulfide	ND	200		µg/L	20	4/14/2011 5:54:11 AM
Carbon Tetrachloride	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Chlorobenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Chloroethane	ND	40		µg/L	20	4/14/2011 5:54:11 AM
Chloroform	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Chloromethane	ND	60		µg/L	20	4/14/2011 5:54:11 AM
2-Chlorotoluene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
4-Chlorotoluene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
cis-1,2-DCE	ND	20		µg/L	20	4/14/2011 5:54:11 AM
cis-1,3-Dichloropropene	ND	20		µg/L	20	4/14/2011 5:54:11 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-04

Client Sample ID: CentralOCD-Close-033011
Collection Date: 4/8/2011
Date Received: 3/31/2011
Matrix: LEACHATE

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	4/14/2011 5:54:11 AM
Dibromochloromethane	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Dibromomethane	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,2-Dichlorobenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,3-Dichlorobenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,4-Dichlorobenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Dichlorodifluoromethane	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,1-Dichloroethane	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,1-Dichloroethene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,2-Dichloropropane	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,3-Dichloropropane	ND	20		µg/L	20	4/14/2011 5:54:11 AM
2,2-Dichloropropane	ND	40		µg/L	20	4/14/2011 5:54:11 AM
1,1-Dichloropropene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Hexachlorobutadiene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
2-Hexanone	ND	200		µg/L	20	4/14/2011 5:54:11 AM
Isopropylbenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
4-Isopropyltoluene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
4-Methyl-2-pentanone	ND	200		µg/L	20	4/14/2011 5:54:11 AM
Methylene Chloride	ND	60		µg/L	20	4/14/2011 5:54:11 AM
n-Butylbenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
n-Propylbenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
sec-Butylbenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Styrene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
tert-Butylbenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	4/14/2011 5:54:11 AM
Tetrachloroethene (PCE)	ND	20		µg/L	20	4/14/2011 5:54:11 AM
trans-1,2-DCE	ND	20		µg/L	20	4/14/2011 5:54:11 AM
trans-1,3-Dichloropropene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,2,3-Trichlorobenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,2,4-Trichlorobenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,1,1-Trichloroethane	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,1,2-Trichloroethane	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Trichloroethene (TCE)	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Trichlorofluoromethane	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,2,3-Trichloropropane	ND	40		µg/L	20	4/14/2011 5:54:11 AM
Vinyl chloride	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Xylenes, Total	ND	30		µg/L	20	4/14/2011 5:54:11 AM
Surr: 1,2-Dichloroethane-d4	97.3	65.8-138		%REC	20	4/14/2011 5:54:11 AM
Surr: 4-Bromofluorobenzene	111	72.7-128		%REC	20	4/14/2011 5:54:11 AM
Surr: Dibromofluoromethane	103	69-135		%REC	20	4/14/2011 5:54:11 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-04

Client Sample ID: CentralOCD-Close-033011
Collection Date: 4/8/2011
Date Received: 3/31/2011
Matrix: LEACHATE

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						
Surr: Toluene-d8	105	86.1-134		%REC	20	Analyst: MMS 4/14/2011 5:54:11 AM
TOTAL PHENOLICS						
Phenolics, Total Recoverable	6.9	2.5		µg/L	1	Analyst: SCC 4/14/2011
SM4500-H+B: PH						
pH	6.52	0.100	H	pH units	1	Analyst: LJB 4/14/2011 6:45:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids	8650	100		mg/L	1	Analyst: KS 4/14/2011 8:54:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-05

Client Sample ID: NEOCD-Close-033011
Collection Date: 4/8/2011
Date Received: 3/31/2011
Matrix: LEACHATE

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	6.3	5.0		mg/L	10	4/12/2011 3:21:20 PM
Sulfate	44	0.50		mg/L	1	4/11/2011 3:03:31 PM
EPA METHOD 200.7: METALS						Analyst: ELS
Barium	0.81	0.010		mg/L	5	4/19/2011 10:47:26 AM
Chromium	ND	0.0080		mg/L	1	4/15/2011 5:00:24 PM
Iron	ND	0.020		mg/L	1	4/15/2011 5:00:24 PM
Lead	ND	0.0050		mg/L	1	4/15/2011 5:00:24 PM
Manganese	6.0	0.020	*	mg/L	10	4/19/2011 10:43:30 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-06

Client Sample ID: EB-033011
Collection Date: 3/30/2011 6:00:00 PM
Date Received: 3/31/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Toluene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Ethylbenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Naphthalene	ND	2.0		µg/L	1	4/6/2011 4:57:36 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	4/6/2011 4:57:36 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	4/6/2011 4:57:36 PM
Acetone	ND	10		µg/L	1	4/6/2011 4:57:36 PM
Bromobenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Bromodichloromethane	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Bromoform	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Bromomethane	ND	3.0		µg/L	1	4/6/2011 4:57:36 PM
2-Butanone	ND	10		µg/L	1	4/6/2011 4:57:36 PM
Carbon disulfide	ND	10		µg/L	1	4/6/2011 4:57:36 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Chlorobenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Chloroethane	ND	2.0		µg/L	1	4/6/2011 4:57:36 PM
Chloroform	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Chloromethane	ND	3.0		µg/L	1	4/6/2011 4:57:36 PM
2-Chlorotoluene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
4-Chlorotoluene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
cis-1,2-DCE	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/6/2011 4:57:36 PM
Dibromochloromethane	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Dibromomethane	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/6/2011 4:57:36 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-06

Client Sample ID: EB-033011
Collection Date: 3/30/2011 6:00:00 PM
Date Received: 3/31/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
2-Hexanone	ND	10		µg/L	1	4/6/2011 4:57:36 PM
Isopropylbenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/6/2011 4:57:36 PM
Methylene Chloride	ND	3.0		µg/L	1	4/6/2011 4:57:36 PM
n-Butylbenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
n-Propylbenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
sec-Butylbenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Styrene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
tert-Butylbenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/6/2011 4:57:36 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
trans-1,2-DCE	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/6/2011 4:57:36 PM
Vinyl chloride	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Xylenes, Total	ND	1.5		µg/L	1	4/6/2011 4:57:36 PM
Surr: 1,2-Dichloroethane-d4	94.2	65.8-138		%REC	1	4/6/2011 4:57:36 PM
Surr: 4-Bromofluorobenzene	112	72.7-128		%REC	1	4/6/2011 4:57:36 PM
Surr: Dibromofluoromethane	99.7	69-135		%REC	1	4/6/2011 4:57:36 PM
Surr: Toluene-d8	101	86.1-134		%REC	1	4/6/2011 4:57:36 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank,
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-07

Client Sample ID: FB-033-11
Collection Date: 3/30/2011 6:05:00 PM
Date Received: 3/31/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Toluene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Ethylbenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Naphthalene	ND	2.0		µg/L	1	4/6/2011 6:22:15 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	4/6/2011 6:22:15 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	4/6/2011 6:22:15 PM
Acetone	ND	10		µg/L	1	4/6/2011 6:22:15 PM
Bromobenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Bromodichloromethane	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Bromoform	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Bromomethane	ND	3.0		µg/L	1	4/6/2011 6:22:15 PM
2-Butanone	ND	10		µg/L	1	4/6/2011 6:22:15 PM
Carbon disulfide	ND	10		µg/L	1	4/6/2011 6:22:15 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Chlorobenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Chloroethane	ND	2.0		µg/L	1	4/6/2011 6:22:15 PM
Chloroform	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Chloromethane	ND	3.0		µg/L	1	4/6/2011 6:22:15 PM
2-Chlorotoluene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
4-Chlorotoluene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
cis-1,2-DCE	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/6/2011 6:22:15 PM
Dibromochloromethane	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Dibromomethane	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/6/2011 6:22:15 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-07

Client Sample ID: FB-033-11
Collection Date: 3/30/2011 6:05:00 PM
Date Received: 3/31/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
2-Hexanone	ND	10		µg/L	1	4/6/2011 6:22:15 PM
Isopropylbenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/6/2011 6:22:15 PM
Methylene Chloride	ND	3.0		µg/L	1	4/6/2011 6:22:15 PM
n-Butylbenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
n-Propylbenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
sec-Butylbenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Styrene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
tert-Butylbenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/6/2011 6:22:15 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
trans-1,2-DCE	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/6/2011 6:22:15 PM
Vinyl chloride	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Xylenes, Total	ND	1.5		µg/L	1	4/6/2011 6:22:15 PM
Surr: 1,2-Dichloroethane-d4	101	65.8-138		%REC	1	4/6/2011 6:22:15 PM
Surr: 4-Bromofluorobenzene	107	72.7-128		%REC	1	4/6/2011 6:22:15 PM
Surr: Dibromofluoromethane	106	69-135		%REC	1	4/6/2011 6:22:15 PM
Surr: Toluene-d8	105	88.1-134		%REC	1	4/6/2011 6:22:15 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-08

Client Sample ID: Central OCD-01-033111
Collection Date: 3/31/2011 10:30:00 AM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/7/2011 8:45:22 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/7/2011 8:45:22 AM
Surr: DNOP	99.2	81.8-129		%REC	1	4/7/2011 8:45:22 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/6/2011 12:46:03 PM
Surr: BFB	103	89.7-125		%REC	1	4/6/2011 12:46:03 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/6/2011 12:46:03 PM
Toluene	ND	0.050		mg/Kg	1	4/6/2011 12:46:03 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/6/2011 12:46:03 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/6/2011 12:46:03 PM
Surr: 4-Bromofluorobenzene	117	85.3-139		%REC	1	4/6/2011 12:46:03 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	810	30		mg/Kg	20	4/8/2011 7:00:09 PM
Sulfate	420	30		mg/Kg	20	4/8/2011 7:00:09 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Barium	240	1.0		mg/Kg	10	4/5/2011 1:36:47 PM
Chromium	17	1.5		mg/Kg	5	4/5/2011 1:34:04 PM
Copper	5.4	1.5		mg/Kg	5	4/5/2011 1:34:04 PM
Iron	16000	500		mg/Kg	500	4/5/2011 1:39:24 PM
Lead	6.4	1.3		mg/Kg	5	4/5/2011 1:34:04 PM
Manganese	420	1.0		mg/Kg	10	4/5/2011 1:36:47 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT:	Western Refining Southwest, Gallup	Client Sample ID:	Central OCD-02-033111
Lab Order:	1104008	Collection Date:	3/31/2011 11:00:00 AM
Project:	Gallup OCD Landfarms	Date Received:	3/31/2011
Lab ID:	1104008-09	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/7/2011 9:19:43 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/7/2011 9:19:43 AM
Surr: DNOP	106	81.8-129		%REC	1	4/7/2011 9:19:43 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/6/2011 1:15:01 PM
Surr: BFB	103	89.7-125		%REC	1	4/6/2011 1:15:01 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/6/2011 1:15:01 PM
Toluene	ND	0.050		mg/Kg	1	4/6/2011 1:15:01 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/6/2011 1:15:01 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/6/2011 1:15:01 PM
Surr: 4-Bromofluorobenzene	121	85.3-139		%REC	1	4/6/2011 1:15:01 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	300	30		mg/Kg	20	4/8/2011 7:34:59 PM
Sulfate	290	30		mg/Kg	20	4/8/2011 7:34:59 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Barium	210	0.50		mg/Kg	5	4/5/2011 1:42:04 PM
Chromium	16	1.5		mg/Kg	5	4/5/2011 1:42:04 PM
Copper	4.4	1.5		mg/Kg	5	4/5/2011 1:42:04 PM
Iron	20000	500		mg/Kg	500	4/5/2011 1:49:07 PM
Lead	6.0	1.3		mg/Kg	5	4/5/2011 1:42:04 PM
Manganese	450	1.0		mg/Kg	10	4/5/2011 1:46:28 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-10

Client Sample ID: Central OCD-03-033111
Collection Date: 3/31/2011 11:35:00 AM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/7/2011 9:53:54 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/7/2011 9:53:54 AM
Surr: DNOP	96.3	81.8-129		%REC	1	4/7/2011 9:53:54 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/6/2011 1:43:57 PM
Surr: BFB	102	89.7-125		%REC	1	4/6/2011 1:43:57 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/6/2011 1:43:57 PM
Toluene	ND	0.050		mg/Kg	1	4/6/2011 1:43:57 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/6/2011 1:43:57 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/6/2011 1:43:57 PM
Surr: 4-Bromofluorobenzene	122	85.3-139		%REC	1	4/6/2011 1:43:57 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	200	30		mg/Kg	20	4/8/2011 8:09:49 PM
Sulfate	510	30		mg/Kg	20	4/8/2011 8:09:49 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGE
Barium	410	1.0		mg/Kg	10	4/5/2011 2:02:38 PM
Chromium	15	1.5		mg/Kg	5	4/5/2011 1:59:53 PM
Copper	5.5	1.5		mg/Kg	5	4/5/2011 1:59:53 PM
Iron	17000	500		mg/Kg	500	4/5/2011 2:05:15 PM
Lead	7.1	1.3		mg/Kg	5	4/5/2011 1:59:53 PM
Manganese	430	1.0		mg/Kg	10	4/5/2011 2:02:38 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
POL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-11

Client Sample ID: Central OCD-04-033111
Collection Date: 3/31/2011 11:20:00 AM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/6/2011 4:50:32 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/6/2011 4:50:32 PM
Surr: DNOP	84.9	81.8-129		%REC	1	4/6/2011 4:50:32 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/6/2011 2:12:53 PM
Surr: BFB	104	89.7-125		%REC	1	4/6/2011 2:12:53 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/6/2011 2:12:53 PM
Toluene	ND	0.050		mg/Kg	1	4/6/2011 2:12:53 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/6/2011 2:12:53 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/6/2011 2:12:53 PM
Surr: 4-Bromofluorobenzene	123	85.3-139		%REC	1	4/6/2011 2:12:53 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	480	30		mg/Kg	20	4/8/2011 8:44:38 PM
Sulfate	350	30		mg/Kg	20	4/8/2011 8:44:38 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Barium	310	1.0		mg/Kg	10	4/5/2011 2:10:35 PM
Chromium	16	1.5		mg/Kg	5	4/5/2011 2:07:50 PM
Copper	4.6	1.5		mg/Kg	5	4/5/2011 2:07:50 PM
Iron	20000	500		mg/Kg	500	4/5/2011 2:13:10 PM
Lead	5.0	1.3		mg/Kg	5	4/5/2011 2:07:50 PM
Manganese	420	1.0		mg/Kg	10	4/6/2011 2:10:35 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-12

Client Sample ID: NE OCD-01-033111
Collection Date: 3/31/2011 8:45:00 AM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	240	30		mg/Kg	20	4/8/2011 9:54:16 PM
Sulfate	580	30		mg/Kg	20	4/8/2011 9:54:16 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Barium	290	1.0		mg/Kg	10	4/5/2011 2:20:06 PM
Chromium	11	1.5		mg/Kg	5	4/5/2011 2:15:46 PM
Iron	16000	500		mg/Kg	500	4/5/2011 2:22:42 PM
Lead	5.8	1.3		mg/Kg	5	4/5/2011 2:15:46 PM
Manganese	400	1.0		mg/Kg	10	4/5/2011 2:20:06 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-13

Client Sample ID: NE OCD-02-033111
Collection Date: 3/31/2011 9:00:00 AM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	130	7.5		mg/Kg	5	4/8/2011 10:11:41 PM
Sulfate	290	7.5		mg/Kg	5	4/8/2011 10:11:41 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Barium	350	1.0		mg/Kg	10	4/5/2011 2:40:13 PM
Chromium	13	1.5		mg/Kg	5	4/5/2011 2:37:29 PM
Iron	20000	500		mg/Kg	500	4/5/2011 2:42:52 PM
Lead	7.1	1.3		mg/Kg	5	4/5/2011 2:37:29 PM
Manganese	480	1.0		mg/Kg	10	4/5/2011 2:40:13 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-14

Client Sample ID: NE OCD-03-033111
Collection Date: 3/31/2011 9:25:00 AM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	290	30		mg/Kg	20	4/8/2011 11:03:56 PM
Sulfate	230	7.5		mg/Kg	5	4/8/2011 10:46:31 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Barium	400	1.0		mg/Kg	10	4/5/2011 3:31:43 PM
Chromium	14	1.5		mg/Kg	5	4/5/2011 3:28:57 PM
Iron	17000	500		mg/Kg	500	4/5/2011 3:34:19 PM
Lead	6.7	1.3		mg/Kg	5	4/5/2011 3:28:57 PM
Manganese	410	1.0		mg/Kg	10	4/5/2011 3:31:43 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-15

Client Sample ID: NE OCD-04-033111
Collection Date: 3/31/2011 9:40:00 AM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	110	30		mg/Kg	20	4/8/2011 11:21:21 PM
Sulfate	490	30		mg/Kg	20	4/8/2011 11:21:21 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Barium	440	1.0		mg/Kg	10	4/5/2011 2:48:11 PM
Chromium	14	1.5		mg/Kg	5	4/5/2011 2:45:26 PM
Iron	18000	500		mg/Kg	500	4/5/2011 2:50:46 PM
Lead	6.3	1.3		mg/Kg	5	4/5/2011 2:45:26 PM
Manganese	540	50		mg/Kg	500	4/5/2011 2:50:46 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-16

Client Sample ID: Trip Blank
Collection Date:
Date Received: 3/31/2011
Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Toluene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Ethylbenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Naphthalene	ND	2.0		µg/L	1	4/6/2011 6:50:34 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	4/6/2011 6:50:34 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	4/6/2011 6:50:34 PM
Acetone	ND	10		µg/L	1	4/6/2011 6:50:34 PM
Bromobenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Bromodichloromethane	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Bromoform	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Bromomethane	ND	3.0		µg/L	1	4/6/2011 6:50:34 PM
2-Butanone	ND	10		µg/L	1	4/6/2011 6:50:34 PM
Carbon disulfide	ND	10		µg/L	1	4/6/2011 6:50:34 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Chlorobenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Chloroethane	ND	2.0		µg/L	1	4/6/2011 6:50:34 PM
Chloroform	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Chloromethane	ND	3.0		µg/L	1	4/6/2011 6:50:34 PM
2-Chlorotoluene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
4-Chlorotoluene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
cis-1,2-DCE	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/6/2011 6:50:34 PM
Dibromochloromethane	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Dibromomethane	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/6/2011 6:50:34 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-16

Client Sample ID: Trip Blank
Collection Date:
Date Received: 3/31/2011
Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
2-Hexanone	ND	10		µg/L	1	4/6/2011 6:50:34 PM
Isopropylbenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/6/2011 6:50:34 PM
Methylene Chloride	ND	3.0		µg/L	1	4/6/2011 6:50:34 PM
n-Butylbenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
n-Propylbenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
sec-Butylbenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Styrene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
tert-Butylbenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/6/2011 6:50:34 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
trans-1,2-DCE	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/6/2011 6:50:34 PM
Vinyl chloride	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Xylenes, Total	ND	1.5		µg/L	1	4/6/2011 6:50:34 PM
Surr: 1,2-Dichloroethane-d4	105	65.8-138		%REC	1	4/6/2011 6:50:34 PM
Surr: 4-Bromofluorobenzene	108	72.7-128		%REC	1	4/6/2011 6:50:34 PM
Surr: Dibromofluoromethane	105	69-135		%REC	1	4/6/2011 6:50:34 PM
Surr: Toluene-d8	105	86.1-134		%REC	1	4/6/2011 6:50:34 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-17

Client Sample ID: BD-02-033111
Collection Date: 3/31/2011
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	220	30		mg/Kg	20	4/8/2011 11:58:11 PM
Sulfate	640	30		mg/Kg	20	4/8/2011 11:58:11 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Barium	290	1.0		mg/Kg	10	4/5/2011 2:57:52 PM
Chromium	12	1.5		mg/Kg	5	4/5/2011 2:55:07 PM
Iron	17000	500		mg/Kg	500	4/5/2011 3:00:30 PM
Lead	6.5	1.3		mg/Kg	5	4/5/2011 2:55:07 PM
Manganese	400	1.0		mg/Kg	10	4/5/2011 2:57:52 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-18

Client Sample ID: BD-01-033111
Collection Date: 3/31/2011
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	260	100		mg/Kg	10	4/6/2011 8:15:20 PM
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	4/6/2011 8:15:20 PM
Surr: DNOP	0	81.8-129	S	%REC	10	4/6/2011 8:15:20 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/6/2011 3:39:33 PM
Surr: BFB	104	89.7-125		%REC	1	4/6/2011 3:39:33 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/6/2011 3:39:33 PM
Toluene	ND	0.050		mg/Kg	1	4/6/2011 3:39:33 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/6/2011 3:39:33 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/6/2011 3:39:33 PM
Surr: 4-Bromofluorobenzene	119	85.3-139		%REC	1	4/6/2011 3:39:33 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	820	30		mg/Kg	20	4/9/2011 2:15:31 AM
Sulfate	360	30		mg/Kg	20	4/9/2011 2:15:31 AM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Barium	300	1.0		mg/Kg	10	4/5/2011 3:14:02 PM
Chromium	18	1.5		mg/Kg	5	4/5/2011 3:03:08 PM
Copper	5.4	1.5		mg/Kg	5	4/5/2011 3:03:08 PM
Iron	18000	500		mg/Kg	500	4/5/2011 3:16:40 PM
Lead	5.9	1.3		mg/Kg	5	4/5/2011 3:03:08 PM
Manganese	430	1.0		mg/Kg	10	4/5/2011 3:14:02 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
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

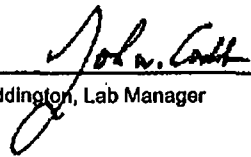
Batch #: 110405030
Project Name: 1104008

Analytical Results Report

Sample Number	110405030-001	Sampling Date	3/30/2011	Date/Time Received	4/5/2011 12:20 PM
Client Sample ID	1104008-01B / BG-NE-033011	Sampling Time	12:10 PM		
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.35	4/13/2011	JTF	EPA 335.4	
%moisture	18.3	Percent		4/13/2011	CRW	%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.

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; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

Friday, April 15, 2011

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

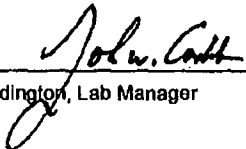
Batch #: 110414047
Project Name: 1104008

Analytical Results Report

Sample Number	110414047-001	Sampling Date	4/8/2011	Date/Time Received	4/14/2011 12:10 PM
Client Sample ID	1104008-04H / CENTRALOCD-CLOSE-033011	Extraction Date			
Matrix	Water	Sampling Time			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/L	0.01	4/20/2011	JTT	EPA 335.4	

Authorized Signature


John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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 #: 110414047
Project Name: 1104008

Analytical Results Report Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Cyanide	0.474	mg/L	0.5	94.8	80-120	4/20/2011	4/20/2011

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
110408031-007	Cyanide	ND	0.474	mg/L	0.5	94.8	70-130	4/20/2011	4/20/2011

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Cyanide	0.487	mg/L	0.5	97.4	2.7	0-25	4/20/2011	4/20/2011

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Cyanide	ND	mg/L	0.01	4/20/2011	4/20/2011

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

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; CA:Cert2632; ID:WA00169; WA:C588; MT:Cert0095

Wednesday, April 27, 2011

Page 1 of 1



Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

May 03, 2011

Ms. Anne Thorne
Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109

RE: Project: 1104008
Pace Project No.: 3044432

Dear Ms. Thorne:

Enclosed are the analytical results for sample(s) received by the laboratory on April 05, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins

jacquelyn.collins@pacelabs.com
Project Manager

Enclosures

cc: Kacey Gutierrez, Hall Environmental Analysis La

REPORT OF LABORATORY ANALYSIS

Page 1 of 10

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Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 1104008
Pace Project No.: 3044432

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA
15601

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/NELAC Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/NELAC Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/NELAC Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/NELAC Certification #: LA080002

Louisiana/NELAC Certification #: 4086

Maine Certification #: PA0081

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/NELAC Certification #: 2976

New Jersey/NELAC Certification #: PA 051

New Mexico Certification

New York/NELAC Certification #: 10888

North Carolina Certification #: 42706

Oregon/NELAC Certification #: PA200002

Pennsylvania/NELAC Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/NELAC Certification #: T104704188-09 TX

Utah/NELAC Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Washington Certification #: C1941

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 1104008
Pace Project No.: 3044432

Lab ID	Sample ID	Matrix	Date Collected	Date Received
3044432001	1104008-01C	Solid	03/30/11 12:10	04/05/11 09:45
3044432002	1104008-08B	Solid	03/31/11 10:30	04/05/11 09:45
3044432003	1104008-09B	Solid	03/31/11 11:00	04/05/11 09:45
3044432004	1104008-10B	Solid	03/31/11 11:35	04/05/11 09:45
3044432005	1104008-11B	Solid	03/31/11 11:20	04/05/11 09:45
3044432006	1104008-12B	Solid	03/31/11 08:45	04/05/11 09:45
3044432007	1104008-13B	Solid	03/31/11 09:00	04/05/11 09:45
3044432008	1104008-14B	Solid	03/31/11 09:25	04/05/11 09:45
3044432009	1104008-15B	Solid	03/31/11 09:40	04/05/11 09:45
3044432010	1104008-17B	Solid	03/31/11 00:01	04/05/11 09:45
3044432011	1104008-18B	Solid	03/31/11 00:01	04/05/11 09:45

REPORT OF LABORATORY ANALYSIS

Page 3 of 10

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 1104008
Pace Project No.: 3044432

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3044432001	1104008-01C	EPA 901.1m	AEH	2	PASI-PA
3044432002	1104008-08B	EPA 901.1m	AEH	2	PASI-PA
3044432003	1104008-09B	EPA 901.1m	AEH	2	PASI-PA
3044432004	1104008-10B	EPA 901.1m	AEH	2	PASI-PA
3044432005	1104008-11B	EPA 901.1m	AEH	2	PASI-PA
3044432006	1104008-12B	EPA 901.1m	AEH	2	PASI-PA
3044432007	1104008-13B	EPA 901.1m	AEH	2	PASI-PA
3044432008	1104008-14B	EPA 901.1m	AEH	2	PASI-PA
3044432009	1104008-15B	EPA 901.1m	AEH	2	PASI-PA
3044432010	1104008-17B	EPA 901.1m	AEH	2	PASI-PA
3044432011	1104008-18B	EPA 901.1m	AEH	2	PASI-PA

REPORT OF LABORATORY ANALYSIS

Page 4 of 10

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1838 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5800

PROJECT NARRATIVE

Project: 1104008
Pace Project No.: 3044432

Method: EPA 901.1m
Description: 901.1 Gamma Spec
Client: Hall Environmental Analysis Laboratory
Date: May 03, 2011

General Information:

11 samples were analyzed for EPA 901.1m. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

Page 5 of 10

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 1104008
Pace Project No.: 3044432

Sample: 1104008-01C Lab ID: 3044432001 Collected: 03/30/11 12:10 Received: 04/05/11 09:45 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	1.29 ± 0.182 (0.0340)	pCi/g	05/02/11 10:11	13982-63-3	
Radium-228	EPA 901.1m	1.40 ± 0.262 (0.0580)	pCi/g	05/02/11 10:11	15262-20-1	

Sample: 1104008-08B Lab ID: 3044432002 Collected: 03/31/11 10:30 Received: 04/05/11 09:45 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	1.19 ± 0.259 (0.0720)	pCi/g	04/30/11 10:08	13982-63-3	
Radium-228	EPA 901.1m	1.69 ± 0.453 (0.120)	pCi/g	04/30/11 10:08	15262-20-1	

Sample: 1104008-09B Lab ID: 3044432003 Collected: 03/31/11 11:00 Received: 04/05/11 09:45 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	0.908 ± 0.186 (0.0390)	pCi/g	04/30/11 10:45	13982-63-3	
Radium-228	EPA 901.1m	0.859 ± 0.349 (0.132)	pCi/g	04/30/11 10:45	15262-20-1	

Sample: 1104008-10B Lab ID: 3044432004 Collected: 03/31/11 11:35 Received: 04/05/11 09:45 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	0.870 ± 0.183 (0.0540)	pCi/g	04/30/11 11:17	13982-63-3	
Radium-228	EPA 901.1m	1.31 ± 0.412 (0.119)	pCi/g	04/30/11 11:17	15262-20-1	

Sample: 1104008-11B Lab ID: 3044432005 Collected: 03/31/11 11:20 Received: 04/05/11 09:45 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	0.764 ± 0.169 (0.0580)	pCi/g	04/30/11 11:48	13982-63-3	
Radium-228	EPA 901.1m	1.83 ± 0.409 (0.0470)	pCi/g	04/30/11 11:48	15262-20-1	

Sample: 1104008-12B Lab ID: 3044432006 Collected: 03/31/11 08:45 Received: 04/05/11 09:45 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	0.973 ± 0.200 (0.0560)	pCi/g	04/30/11 12:21	13982-63-3	
Radium-228	EPA 901.1m	1.18 ± 0.330 (0.0690)	pCi/g	04/30/11 12:21	15262-20-1	

Date: 05/03/2011 12:57 PM

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

ANALYTICAL RESULTS

Project: 1104008

Pace Project No.: 3044432

Sample: 1104008-13B Lab ID: 3044432007 Collected: 03/31/11 09:00 Received: 04/05/11 09:45 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	0.967 ± 0.200 (0.0280)	pCi/g	04/30/11 12:53	13982-63-3	
Radium-228	EPA 901.1m	1.33 ± 0.337 (0.0620)	pCi/g	04/30/11 12:53	15262-20-1	

Sample: 1104008-14B Lab ID: 3044432008 Collected: 03/31/11 09:25 Received: 04/05/11 09:45 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	0.866 ± 0.170 (0.0540)	pCi/g	04/30/11 13:25	13982-63-3	
Radium-228	EPA 901.1m	1.55 ± 0.324 (0.0970)	pCi/g	04/30/11 13:25	15262-20-1	

Sample: 1104008-15B Lab ID: 3044432009 Collected: 03/31/11 09:40 Received: 04/05/11 09:45 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	1.10 ± 0.207 (0.0490)	pCi/g	04/30/11 13:59	13982-63-3	
Radium-228	EPA 901.1m	1.33 ± 0.380 (0.116)	pCi/g	04/30/11 13:59	15262-20-1	

Sample: 1104008-17B Lab ID: 3044432010 Collected: 03/31/11 00:01 Received: 04/05/11 09:45 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	1.05 ± 0.227 (0.0460)	pCi/g	04/30/11 14:30	13982-63-3	
Radium-228	EPA 901.1m	0.778 ± 0.294 (0.133)	pCi/g	04/30/11 14:30	15262-20-1	

Sample: 1104008-18B Lab ID: 3044432011 Collected: 03/31/11 00:01 Received: 04/05/11 09:45 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	0.905 ± 0.203 (0.0430)	pCi/g	04/30/11 15:02	13982-63-3	
Radium-228	EPA 901.1m	1.57 ± 0.366 (0.0930)	pCi/g	04/30/11 15:02	15262-20-1	

Date: 05/03/2011 12:57 PM

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5800

QUALITY CONTROL DATA

Project: 1104008
Pace Project No.: 3044432

QC Batch: RADC/7943 Analysis Method: EPA 901.1m
QC Batch Method: EPA 901.1m Analysis Description: 901.1 Gamma Spec
Associated Lab Samples: 3044432002, 3044432003, 3044432004, 3044432005, 3044432006, 3044432007, 3044432008, 3044432009, 3044432010, 3044432011

METHOD BLANK: 285224 Matrix: Solid
Associated Lab Samples: 3044432002, 3044432003, 3044432004, 3044432005, 3044432006, 3044432007, 3044432008, 3044432009, 3044432010, 3044432011

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226	-0.029 ± 1.64 (0.0610)	pCi/g	05/02/11 08:49	
Radium-228	0.0190 ± 0.243 (0.145)	pCi/g	05/02/11 08:49	

Date: 05/03/2011 12:57 PM

REPORT OF LABORATORY ANALYSIS

Page 8 of 10

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 1104008
Pace Project No.: 3044432

QC Batch:	RADC/7967	Analysis Method:	EPA 901.1m
QC Batch Method:	EPA 901.1m	Analysis Description:	901.1 Gamma Spec
Associated Lab Samples:	3044432001		

METHOD BLANK:	286262	Matrix:	Solid
Associated Lab Samples:	3044432001		

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226	0.0250 ± 0.0310 (0.0250)	pCi/g	05/02/11 11:16	
Radium-228	0.0120 ± 0.0670 (0.0410)	pCi/g	05/02/11 11:16	



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Greensburg, PA 15601
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QUALIFIERS

Project: 1104008
Pace Project No.: 3044432

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

Hall Environmental Analysis Laboratory, Inc.
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109-4372

TEL: 5053453975

FAX: 5053454107

CHAIN-OF-CUSTODY RECORD

Page 1 of 2

Subcontractor:

Pace Analytical Services, Inc.
1638 Roseytown Rd Ste 2,3,4
Greensburg, PA 15601

TEL: (724) 850-5600
FAX: (724) 850-5601
Acct #:

Project Name: 1104008

3044432

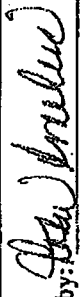
04-Apr-11

Lab ID	Client Sample ID	Matrix	Collection Date	Bottle Type	Requested Tests
1104008-01C	001 BG-NE-033011	Soil	3/30/2011 12:10:00 PM	8OZGU	SEE BELOW
1104008-08B	002 Central OCD-01-033111	Soil	3/31/2011 10:30:00 AM	4OZGU	SEE BELOW
1104008-09B	003 Central OCD-02-033111	Soil	3/31/2011 11:00:00 AM	4OZGU	SEE BELOW
1104008-10B	004 Central OCD-03-033111	Soil	3/31/2011 11:35:00 AM	4OZGU	SEE BELOW
1104008-11B	005 Central OCD-04-033111	Soil	3/31/2011 11:20:00 AM	4OZGU	SEE BELOW
1104008-12B	006 NE OCD-01-033111	Soil	3/31/2011 8:45:00 AM	4OZGU	SEE BELOW
1104008-13B	007 NE OCD-02-033111	Soil	3/31/2011 9:00:00 AM	4OZGU	SEE BELOW
1104008-14B	008 NE OCD-03-033111	Soil	3/31/2011 9:25:00 AM	4OZGU	SEE BELOW

01C, 08B, 09B, 10B, 11B 12B, 13B, 14B, 15B, 17B, 18B-RADIUM 226/228

**ANALYTICAL
COMMENTS:**

Standard TAT. Please fax (505) 345-4107 results when completed, or email to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you

Relinquished by:		Date/Time	04/04/11 0930
Relinquished by:		Date/Time	4/8/11 0945

Hall Environmental Analysis Laboratory, Inc.
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109-4372

TEL: 5053453975

FAX: 5053454107

CHAIN-OF-CUSTODY RECORD

Page 2 of 2

Subcontractor:

Pace Analytical Services, Inc.
1638 Roseytown Rd Ste 2,3,4
Greensburg, PA 15601

TEL: (724) 850-5600
FAX: (724) 850-5601
Acct #:

Project Name: 1104008

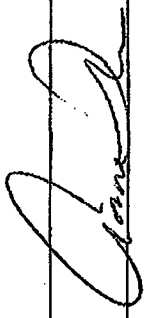
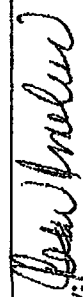
04-Apr-11

Lab ID	Client Sample ID	Matrix	Collection Date	Bottle Type	Requested Tests
1104008-15B	009 NE OGD-04-033111	Soil	3/31/2011 9:40:00 AM	4OZGU	SEE BELOW
1104008-17B	010 BD-02-033111	Soil	3/31/2011	4OZGU	SEE BELOW
1104008-18B	011 BD-01-033111	Soil	3/31/2011	4OZGU	SEE BELOW

01C, 08B, 09B, 10B, 11B 12B, 13B, 14B, 15B, 17B, 18B-RADIUM 226/228

**ANALYTICAL
COMMENTS:**

Standard TAT. Please fax (505) 345-4107 results when completed, or email to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you

Relinquished by: 	Date/Time: 04/04/11
Received by: 	Date/Time: 4/5/11 0942
Relinquished by: _____	Received by: _____

Sample Condition Upon Receipt

Pace Analytical

Client Name: Hall

Project # 3044432

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 7946 1060 5123

Custody Seal on Cooler/Box Present: ☒ Yes ☐ no Seals intact: ☒ Yes ☐ no

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 3 5

Type of Ice: Wet Blue None

☐ Samples on ice, cooling process has begun

Cooler Temperature N/A

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: NO 4/11

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☐ Yes ☒ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No ☐ N/A	6.
Rush Turn Around Time Requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☐ Yes ☒ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>3</u>	
All containers needing preservation have been checked.	☐ Yes ☐ No ☒ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	
exceptions: VOA, coliform, TOC, O&G, Wt-DRO (water)	☒ Yes ☐ No	Initial when completed <u>ME</u> Lot # of added preservative
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	15.
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	16.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review:

Date: 4/16/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

F-ALLC003-4 23Feb2010



Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)860-5800

April 30, 2011

Ms. Anne Thorne
Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109

RE: Project: 1104008
Pace Project No.: 3044907

Dear Ms. Thorne:

Enclosed are the analytical results for sample(s) received by the laboratory on April 14, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins

jacquelyn.collins@pacelabs.com
Project Manager

Enclosures

cc: Kacey Gutierrez, Hall Environmental Analysis La

REPORT OF LABORATORY ANALYSIS

Page 1 of 11

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(724)850-5600

CERTIFICATIONS

Project: 1104008
Pace Project No.: 3044907

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA
15601

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/NELAC Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/NELAC Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/NELAC Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/NELAC Certification #: LA080002

Louisiana/NELAC Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/NELAC Certification #: 2976

New Jersey/NELAC Certification #: PA 051

New Mexico Certification

New York/NELAC Certification #: 10888

North Carolina Certification #: 42708

Oregon/NELAC Certification #: PA200002

Pennsylvania/NELAC Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/NELAC Certification #: T104704188-09 TX

Utah/NELAC Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Washington Certification #: C1941

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 1104008
Pace Project No.: 3044907

Lab ID	Sample ID	Matrix	Date Collected	Date Received
3044907001	1104008-04I	Water	04/08/11 00:01	04/14/11 10:30
3044907002	1104008-05D	Water	04/08/11 00:01	04/14/11 10:30
3044907003	1104008-04I-MS	Water	04/08/11 00:01	04/14/11 10:30

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

SAMPLE ANALYTE COUNT

Project: 1104008
Pace Project No.: 3044907

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3044907001	1104008-04I	EPA 903.1	RMD	1	PASI-PA
		EPA 904.0	DJL	1	PASI-PA
3044907002	1104008-05D	EPA 903.1	RMD	1	PASI-PA
		EPA 904.0	DJL	1	PASI-PA
3044907003	1104008-04I-MS	EPA 903.1	RMD	1	PASI-PA
		EPA 904.0	DJL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

Page 4 of 11

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PROJECT NARRATIVE

Project: 1104008
Pace Project No.: 3044907

Method: EPA 903.1
Description: 903.1 Radium 226
Client: Hall Environmental Analysis Laboratory
Date: April 30, 2011

General Information:

3 samples were analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5800

PROJECT NARRATIVE

Project: 1104008
Pace Project No.: 3044907

Method: EPA 904.0
Description: 904.0 Radium 228
Client: Hall Environmental Analysis Laboratory
Date: April 30, 2011

General Information:

3 samples were analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1104008

Pace Project No.: 3044907

Sample: 1104008-04I		Lab ID: 3044907001	Collected: 04/08/11 00:01	Received: 04/14/11 10:30	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 903.1	0.929 ± 0.548 (0.488)	pCi/L	04/28/11 11:57	13982-63-3	
Radium-228	EPA 904.0	1.86 ± 0.688 (0.977)	pCi/L	04/28/11 15:01	15262-20-1	

Sample: 1104008-05D		Lab ID: 3044907002	Collected: 04/08/11 00:01	Received: 04/14/11 10:30	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 903.1	0.746 ± 0.457 (0.423)	pCi/L	04/28/11 11:57	13982-63-3	
Radium-228	EPA 904.0	2.59 ± 0.837 (0.970)	pCi/L	04/28/11 15:02	15262-20-1	

Sample: 1104008-04I-MS		Lab ID: 3044907003	Collected: 04/08/11 00:01	Received: 04/14/11 10:30	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 903.1	0.367 ± 0.421 (0.669)	pCi/L	04/28/11 12:11	13982-63-3	
Radium-228	EPA 904.0	21.1 ± 4.34 (1.34)	pCi/L	04/29/11 12:08	15262-20-1	

Date: 04/30/2011 08:48 PM

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 1104008
Pace Project No.: 3044907

QC Batch: RADG/8043 Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1 Analysis Description: 903.1 Radium-226
Associated Lab Samples: 3044907001, 3044907002, 3044907003

METHOD BLANK: 288361 Matrix: Water
Associated Lab Samples: 3044907001, 3044907002, 3044907003

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226	0.112 ± 0.312 (0.604)	pCi/L	04/28/11 10:26	

Date: 04/30/2011 06:48 PM

REPORT OF LABORATORY ANALYSIS

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1838 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 1104008
Pace Project No.: 3044907

QC Batch: RADC/8099 Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0 Analysis Description: 904.0 Radium 228
Associated Lab Samples: 3044907001, 3044907002

METHOD BLANK: 289569 Matrix: Water
Associated Lab Samples: 3044907001, 3044907002

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-228	0.373 ± 0.453 (0.981)	pCi/L	04/28/11 15:01	

QUALITY CONTROL DATA

Project: 1104008
Pace Project No.: 3044907

QC Batch:	RADC/8100	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
Associated Lab Samples:	3044907003		

METHOD BLANK:	289570	Matrix:	Water
Associated Lab Samples:	3044907003		

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-228	0.717 ± 0.504 (0.983)	pCi/L	04/29/11 12:11	

QUALIFIERS

Project: 1104008
Pace Project No.: 3044907

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

Hall Environmental Analysis Laboratory, Inc.
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109-4372

TEL: 5053453975 FAX: 5053454107

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Subcontractor:

Pace Analytical Services, Inc.
1638 Roseytown Rd Ste 2,3,4
Greensburg, PA 15601

TEL: (724) 850-5600
FAX: (724) 850-5601
Acct #:

Project Name: 1104008

13-Apr-11

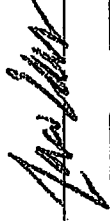
3044907

Lab ID	Client Sample ID	Matrix	Collection Date	Bottle Type	Requested Tests
1104008-04I	CentralOCD-Close-033011	Leachate	4/8/2011	1LHDPEHNO3	SEE BELOW
1104008-05D	NEOCD-Close-033011	Leachate	4/8/2011	1LHDPEHNO3	SEE BELOW

LEACHATE SAMPLES-04I, 05D-RADIUM 226-228

**ANALYTICAL
COMMENTS:**

Standard TAT. Please fax (505) 345-4107 results when completed, or email to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you

Relinquished by: 	Date/Time: 5/5	Received by: 	Date/Time: 4/14/11 1330
Relinquished by:	04/13/11	Received by:	

Hall Environmental Analysis Laboratory, Inc.
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109-4372

TEL: 5053453975

FAX: 5053454107

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Subcontractor:

Pace Analytical Services, Inc.
1638 Roseytown Rd Site 2,3,4
Greensburg, PA 15601

TEL: (724) 850-5600
FAX: (724) 850-5601
Acct #:

Project Name: 1104008

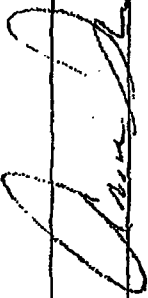
13-Apr-11

Lab ID	Client Sample ID	Matrix	Collection Date	Bottle Type	Requested Tests
1104008-04I	CentralOCD-Close-033011	Leachate	4/8/2011	1LHDPERN03	SEE BELOW
1104008-05D	NEOCD-Close-033011	Leachate	4/8/2011	1LHDPERN03	SEE BELOW

**ANALYTICAL
COMMENTS:**

Please provide ms 1A 4/11/11
LEACHATE SAMPLES-04I, 05D-RADIUM 226.228

Standard TAT. Please fax (505) 345-4107 results when completed, or email to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you

Relinquished by: 	Date/Time: 5/5	Received by:	Date/Time
Relinquished by:	04/13/11	Received by:	



Sample Condition Upon Receipt

Client Name: HallProject # 3044907Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace OtherTracking #: 7921648958861Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals Intact: ☐ yes ☐ noPacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ OtherThermometer Used 3 5Type of Ice: Wet ☒ None ☐☐ Samples on ice, cooling process has begunCooler Temperature NA

Biological Tissue Is Frozen: Yes No

Date and Initials of person examining contents: 4/14/11

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☐ Yes ☒ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No ☐ N/A	6.
Rush Turn Around Time Requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☐ Yes ☒ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>NA</u>		
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	13. <u>4/14/11 1220 21 mL / 6x460</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☒ No ☐ N/A	
exceptions: VOA, coliform, TOC, O&G, WA-DRO (water)	☐ Yes ☐ No	Initial when completed <u>LR</u> Lot # of added preservative <u>RFH-6052-S</u>
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>8mm):	☐ Yes ☐ No ☒ N/A	15.
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	16.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: 4/14/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 200.7: Metals											
Sample ID: 1104008-04FMSD		MSD				Batch ID: 26407	Analysis Date: 4/15/2011 4:19:13 PM				
Barium	0.8400	mg/L	0.0020	0.5	0.3858	90.8	70	130	1.18	20	
Cadmium	0.5051	mg/L	0.0020	0.5	0	101	70	130	0.971	20	
Chromium	0.4929	mg/L	0.0060	0.5	0	98.6	70	130	0.923	20	
Copper	0.6197	mg/L	0.0060	0.5	0.0158	121	70	130	1.97	20	
Iron	0.4834	mg/L	0.020	0.5	0.0202	92.6	70	130	0.621	20	
Lead	0.4839	mg/L	0.0050	0.5	0.0036	96.1	70	130	0.899	20	
Silver	0.4725	mg/L	0.0050	0.5	0	94.5	70	130	14.9	20	
Zinc	0.5843	mg/L	0.010	0.5	0.1389	89.1	70	130	0.934	20	
Sample ID: 1104008-05CMSD		MSD				Batch ID: 26389	Analysis Date: 4/15/2011 5:10:31 PM				
Chromium	0.4804	mg/L	0.0060	0.5	0	96.1	70	130	1.85	20	
Iron	0.4608	mg/L	0.020	0.5	0	92.2	70	130	1.34	20	
Lead	0.4706	mg/L	0.0050	0.5	0.0019	93.7	70	130	1.77	20	
Sample ID: 1104008-05CMSD		MSD				Batch ID: 26389	Analysis Date: 4/19/2011 10:59:04 AM				
Barium	1.258	mg/L	0.010	0.5	0.8107	89.4	70	130	1.82	20	
Sample ID: MB-26407		MBLK				Batch ID: 26407	Analysis Date: 4/15/2011 3:52:21 PM				
Barium	ND	mg/L	0.0020								
Cadmium	ND	mg/L	0.0020								
Chromium	ND	mg/L	0.0060								
Copper	ND	mg/L	0.0060								
Iron	ND	mg/L	0.020								
Lead	ND	mg/L	0.0050								
Manganese	ND	mg/L	0.0020								
Silver	ND	mg/L	0.0050								
Zinc	ND	mg/L	0.010								
Sample ID: LCS-26407		LCS				Batch ID: 26407	Analysis Date: 4/15/2011 4:05:32 PM				
Barium	0.4663	mg/L	0.0020	0.5	0	93.3	85	115			
Cadmium	0.4894	mg/L	0.0020	0.5	0	97.9	85	115			
Chromium	0.5049	mg/L	0.0060	0.5	0	101	85	115			
Copper	0.5174	mg/L	0.0060	0.5	0.0028	103	85	115			
Iron	0.4818	mg/L	0.020	0.5	0	96.4	85	115			
Lead	0.4986	mg/L	0.0050	0.5	0	99.7	85	115			
Manganese	0.4867	mg/L	0.0020	0.5	0.0002	97.3	85	115			
Silver	0.4184	mg/L	0.0050	0.5	0.0007	83.5	85	115			S
Zinc	0.4798	mg/L	0.010	0.5	0.0006	95.8	85	115			
Sample ID: 1104008-04FMS		MS				Batch ID: 26407	Analysis Date: 4/15/2011 4:14:24 PM				
Barium	0.8301	mg/L	0.0020	0.5	0.3858	88.9	70	130			
Cadmium	0.5002	mg/L	0.0020	0.5	0	100	70	130			
Chromium	0.4884	mg/L	0.0060	0.5	0	97.7	70	130			
Copper	0.6076	mg/L	0.0060	0.5	0.0158	118	70	130			
Iron	0.4804	mg/L	0.020	0.5	0.0202	92.0	70	130			
Lead	0.4796	mg/L	0.0050	0.5	0.0036	95.2	70	130			
Silver	0.4071	mg/L	0.0050	0.5	0	81.4	70	130			
Zinc	0.5789	mg/L	0.010	0.5	0.1389	88.0	70	130			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 200.7: Metals											
Sample ID: 1104008-05CMS		MS									
Chromium	0.4894	mg/L	0.0060	0.5	0	97.9	70	130			
Iron	0.4670	mg/L	0.020	0.5	0	93.4	70	130			
Lead	0.4790	mg/L	0.0050	0.5	0.0019	95.4	70	130			
Sample ID: 1104008-05CMS		MS									
Barium	1.281	mg/L	0.010	0.5	0.8107	94.0	70	130			
Method: EPA Method 245.1: Mercury											
Sample ID: 1104008-04FMSD		MSD									
Mercury	0.005195	mg/L	0.00020	0.005	0	104	75	125	1.14	20	
Sample ID: MBLK-26593		MBLK									
Mercury	ND	mg/L	0.00020								
Sample ID: LCS-26593		LCS									
Mercury	0.005076	mg/L	0.00020	0.005	0	102	80	120			
Sample ID: 1104008-04FMS		MS									
Mercury	0.005254	mg/L	0.00020	0.005	0	105	75	125			
Method: EPA Method 300.0: Anions											
Sample ID: MB-26291		MBLK									
Fluoride	ND	mg/Kg	0.30								
Chloride	ND	mg/Kg	1.5								
Nitrogen, Nitrate (As N)	ND	mg/Kg	0.30								
Sulfate	ND	mg/Kg	1.5								
Sample ID: LCS-26291		LCS									
Fluoride	1.595	mg/Kg	0.30	1.5	0	106	90	110			
Chloride	13.73	mg/Kg	1.5	15	0	91.5	90	110			
Nitrogen, Nitrate (As N)	7.165	mg/Kg	0.30	7.5	0	95.5	90	110			
Sulfate	29.06	mg/Kg	1.5	30	0	96.9	90	110			

Qualifiers:

E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 NC Non-Chlorinated
 R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: 1104008-04GMSD x		MSD									
Chloride	42.28	mg/L	2.5	25	18.45	95.3	78	107	3.58	20	
Sample ID: MB		MBLK									
Chloride	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		MBLK									
Chloride	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		MBLK									
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		MBLK									
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		MBLK									
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20								
Sulfate	ND	mg/L	0.50								
Sample ID: LCS		LCS									
Chloride	4.882	mg/L	0.50	5	0	97.6	90	110			
Sulfate	9.923	mg/L	0.50	10	0	99.2	90	110			
Sample ID: LCS		LCS									
Chloride	4.897	mg/L	0.50	5	0	97.9	90	110			
Sulfate	10.40	mg/L	0.50	10	0	104	90	110			
Sample ID: LCS		LCS									
Fluoride	0.5549	mg/L	0.10	0.5	0	111	90	110			
Chloride	4.876	mg/L	0.50	5	0	97.6	90	110			
Nitrate (As N)+Nitrite (As N)	3.437	mg/L	0.20	3.5	0	98.2	90	110			
Sulfate	9.824	mg/L	0.50	10	0	98.2	90	110			
Sample ID: LCS		LCS									
Fluoride	0.5486	mg/L	0.10	0.5	0	110	90	110			
Chloride	4.998	mg/L	0.50	5	0	100	90	110			
Nitrate (As N)+Nitrite (As N)	3.537	mg/L	0.20	3.5	0	101	90	110			
Sulfate	10.14	mg/L	0.50	10	0	101	90	110			
Sample ID: LCS		LCS									
Fluoride	0.5384	mg/L	0.10	0.5	0	108	90	110			
Chloride	5.087	mg/L	0.50	5	0	102	90	110			
Nitrate (As N)+Nitrite (As N)	3.574	mg/L	0.20	3.5	0	102	90	110			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: LCS		LCS				Batch ID: R44785		Analysis Date: 4/15/2011 10:47:15 AM			
Sulfate	10.31	mg/L	0.50	10	0	103	90	110			
Sample ID: 1104008-04GMS x5		MS				Batch ID: R44750		Analysis Date: 4/14/2011 9:04:37 AM			
Chloride	43.83	mg/L	2.5	25	18.45	101	78	107			
Method: Total Phenolics											
Sample ID: MB-26404		MBLK				Batch ID: 26405		Analysis Date: 4/14/2011			
Phenolics, Total Recoverable	ND	µg/L	2.5								
Sample ID: LCS-26404		LCS				Batch ID: 26405		Analysis Date: 4/14/2011			
Phenolics, Total Recoverable	21.20	µg/L	2.5	20	0	106	74.2	128			
Sample ID: LCSD-26404		LCSD				Batch ID: 26405		Analysis Date: 4/14/2011			
Phenolics, Total Recoverable	23.70	µg/L	2.5	20	0	119	74.2	128	11.2	20	
Method: EPA Method 504.1 Modified: EDB											
Sample ID: 1104008-01AMSD		MSD				Batch ID: 26347		Analysis Date: 4/11/2011 8:34:55 PM			
1,2-Dibromoethane	1.121	µg/Kg	0.10	1	0	112	59.361	138.471	4.19	11.2	
Sample ID: MB-26347		MBLK				Batch ID: 26347		Analysis Date: 4/11/2011 7:17:30 PM			
1,2-Dibromoethane	ND	µg/Kg	0.10								
Sample ID: LCS-26347		LCS				Batch ID: 26347		Analysis Date: 4/11/2011 7:33:11 PM			
1,2-Dibromoethane	1.043	µg/Kg	0.10	1	0	104	70	130			
Sample ID: LCSD-26347		LCSD				Batch ID: 26347		Analysis Date: 4/11/2011 7:49:03 PM			
1,2-Dibromoethane	1.041	µg/Kg	0.10	1	0	104	70	130	0.192	20	
Sample ID: 1104008-01AMS		MS				Batch ID: 26347		Analysis Date: 4/11/2011 8:19:45 PM			
1,2-Dibromoethane	1.075	µg/Kg	0.10	1	0	108	59.361	138.471			
Method: EPA Method 8011/504.1: EDB											
Sample ID: 1104008-04CMSD		MSD				Batch ID: 26414		Analysis Date: 4/14/2011 5:07:45 PM			
1,2-Dibromoethane	0.1170	µg/L	0.010	0.1	0	117	55.6	140	1.69	15.5	
Sample ID: MB-26414		MBLK				Batch ID: 26414		Analysis Date: 4/14/2011 4:04:13 PM			
1,2-Dibromoethane	ND	µg/L	0.010								
Sample ID: LCS-26414		LCS				Batch ID: 26414		Analysis Date: 4/14/2011 4:16:54 PM			
1,2-Dibromoethane	0.1080	µg/L	0.010	0.1	0	108	70	130			
Sample ID: LCSD-26414		LCSD				Batch ID: 26414		Analysis Date: 4/14/2011 4:29:40 PM			
1,2-Dibromoethane	0.1090	µg/L	0.010	0.1	0	109	70	130	2.79	20	
Sample ID: 1104008-04CMS		MS				Batch ID: 26414		Analysis Date: 4/14/2011 4:55:06 PM			
1,2-Dibromoethane	0.1190	µg/L	0.010	0.1	0	119	55.6	140			

Qualifiers:

E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 NC Non-Chlorinated
 R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-26262		MBLK				Batch ID: 26262	Analysis Date: 4/6/2011 9:45:01 AM				
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-26262		LCS				Batch ID: 26262	Analysis Date: 4/6/2011 10:19:08 AM				
Diesel Range Organics (DRO)	48.66	mg/Kg	10	50	0	97.3	66.2	120			
Sample ID: LCSD-26262		LCSD				Batch ID: 26262	Analysis Date: 4/6/2011 10:53:19 AM				
Diesel Range Organics (DRO)	45.97	mg/Kg	10	50	0	91.9	66.2	120	5.69	14.3	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: MB-26239		MBLK				Batch ID: 26239	Analysis Date: 4/6/2011 7:59:54 PM				
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-26239		LCS				Batch ID: 26239	Analysis Date: 4/6/2011 6:04:17 PM				
Gasoline Range Organics (GRO)	25.56	mg/Kg	5.0	25	0	102	88.8	124			
Method: EPA Method 8021B: Volatiles											
Sample ID: 1104008-08AMSD		MSD				Batch ID: 26239	Analysis Date: 4/6/2011 7:02:08 PM				
Methyl tert-butyl ether (MTBE)	0.8702	mg/Kg	0.10	1	0.0124	85.8	61.3	215	1.08	19.6	
Benzene	0.8537	mg/Kg	0.050	1	0	85.4	67.2	113	0.149	14.3	
Toluene	0.8997	mg/Kg	0.050	1	0	90.0	62.1	116	3.49	15.9	
Ethylbenzene	0.9394	mg/Kg	0.050	1	0	93.9	67.9	127	5.82	14.4	
Xylenes, Total	2.846	mg/Kg	0.10	3	0	94.9	60.6	134	4.79	12.6	
Sample ID: MB-26239		MBLK				Batch ID: 26239	Analysis Date: 4/6/2011 7:59:54 PM				
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.10								
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: LCS-26239		LCS				Batch ID: 26239	Analysis Date: 4/6/2011 7:31:02 PM				
Methyl tert-butyl ether (MTBE)	0.8871	mg/Kg	0.10	1	0	88.7	65.5	229			
Benzene	0.8715	mg/Kg	0.050	1	0.0041	86.7	83.3	107			
Toluene	0.8887	mg/Kg	0.050	1	0	88.9	74.3	115			
Ethylbenzene	0.9217	mg/Kg	0.050	1	0	92.2	80.9	122			
Xylenes, Total	2.769	mg/Kg	0.10	3	0	92.3	85.2	123			
Sample ID: 1104008-08AMS		MS				Batch ID: 26239	Analysis Date: 4/6/2011 6:33:13 PM				
Methyl tert-butyl ether (MTBE)	0.8796	mg/Kg	0.10	1	0.0124	86.7	61.3	215			
Benzene	0.8524	mg/Kg	0.050	1	0	85.2	67.2	113			
Toluene	0.8688	mg/Kg	0.050	1	0	86.9	62.1	116			
Ethylbenzene	0.8863	mg/Kg	0.050	1	0	88.6	67.9	127			
Xylenes, Total	2.713	mg/Kg	0.10	3	0	90.4	60.6	134			

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8082: PCB's											
Sample ID: 1104008-01AMSD		MSD									
Aroclor 1260	0.1042	mg/Kg	0.020	0.125	0	83.4	45	117	5.12	20	
Sample ID: MB-26241		MBLK									
Aroclor 1016	ND	mg/Kg	0.020								
Aroclor 1221	ND	mg/Kg	0.020								
Aroclor 1232	ND	mg/Kg	0.020								
Aroclor 1242	ND	mg/Kg	0.020								
Aroclor 1248	ND	mg/Kg	0.020								
Aroclor 1254	ND	mg/Kg	0.020								
Aroclor 1260	ND	mg/Kg	0.020								
Sample ID: LCS-26241		LCS									
Aroclor 1260	0.06995	mg/Kg	0.020	0.125	0	56.0	42.6	139			
Sample ID: 1104008-01AMS		MS									
Aroclor 1260	0.09900	mg/Kg	0.020	0.125	0	79.2	45	117			

Method: EPA Method 8082: PCB's											
Sample ID: 1104008-04DMSD		MSD									
Aroclor 1016	1.534	µg/L	1.0	5	0	30.7	70	130	4.40	0	S
Aroclor 1260	1.258	µg/L	1.0	5	0	25.2	61.1	129	7.59	12.9	S
Sample ID: MB-26425		MBLK									
Aroclor 1016	ND	µg/L	1.0								
Aroclor 1221	ND	µg/L	1.0								
Aroclor 1232	ND	µg/L	1.0								
Aroclor 1242	ND	µg/L	1.0								
Aroclor 1248	ND	µg/L	1.0								
Aroclor 1254	ND	µg/L	1.0								
Aroclor 1260	ND	µg/L	1.0								
Sample ID: LCS-26425		LCS									
Aroclor 1016	3.510	µg/L	1.0	5	0	70.2	33	126			
Aroclor 1260	3.924	µg/L	1.0	5	0	78.5	40.7	130			
Sample ID: 1104008-04DMS		MS									
Aroclor 1016	1.468	µg/L	1.0	5	0	29.4	70	130			S
Aroclor 1260	1.166	µg/L	1.0	5	0	23.3	61.1	129			S

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: MB-26239		MBLK		Batch ID:	26239	Analysis Date:	4/7/2011 1:53:36 PM				
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.050								
1,2,4-Trimethylbenzene	ND	mg/Kg	0.050								
1,3,5-Trimethylbenzene	ND	mg/Kg	0.050								
1,2-Dichloroethane (EDC)	ND	mg/Kg	0.050								
1,2-Dibromoethane (EDB)	ND	mg/Kg	0.050								
Naphthalene	ND	mg/Kg	0.10								
1-Methylnaphthalene	ND	mg/Kg	0.20								
2-Methylnaphthalene	ND	mg/Kg	0.20								
Acetone	ND	mg/Kg	0.75								
Bromobenzene	ND	mg/Kg	0.050								
Bromodichloromethane	ND	mg/Kg	0.050								
Bromoform	ND	mg/Kg	0.050								
Bromomethane	ND	mg/Kg	0.15								
2-Butanone	ND	mg/Kg	0.50								
Carbon disulfide	ND	mg/Kg	0.50								
Carbon tetrachloride	ND	mg/Kg	0.10								
Chlorobenzene	ND	mg/Kg	0.050								
Chloroethane	ND	mg/Kg	0.10								
Chloroform	ND	mg/Kg	0.050								
Chloromethane	ND	mg/Kg	0.15								
2-Chlorotoluene	ND	mg/Kg	0.050								
4-Chlorotoluene	ND	mg/Kg	0.050								
cis-1,2-DCE	ND	mg/Kg	0.050								
cis-1,3-Dichloropropene	ND	mg/Kg	0.050								
1,2-Dibromo-3-chloropropane	ND	mg/Kg	0.10								
Dibromochloromethane	ND	mg/Kg	0.050								
Dibromomethane	ND	mg/Kg	0.10								
1,2-Dichlorobenzene	ND	mg/Kg	0.050								
1,3-Dichlorobenzene	ND	mg/Kg	0.050								
1,4-Dichlorobenzene	ND	mg/Kg	0.050								
Dichlorodifluoromethane	ND	mg/Kg	0.050								
1,1-Dichloroethane	ND	mg/Kg	0.10								
1,1-Dichloroethene	ND	mg/Kg	0.050								
1,2-Dichloropropane	ND	mg/Kg	0.050								
1,3-Dichloropropane	ND	mg/Kg	0.050								
2,2-Dichloropropane	ND	mg/Kg	0.10								
1,1-Dichloropropene	ND	mg/Kg	0.10								
Hexachlorobutadiene	ND	mg/Kg	0.10								
2-Hexanone	ND	mg/Kg	0.50								
Isopropylbenzene	ND	mg/Kg	0.050								
4-Isopropyltoluene	ND	mg/Kg	0.050								

Qualifiers:

E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 NC Non-Chlorinated
 R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: MB-26239

MBLK

Batch ID: 26239 Analysis Date: 4/7/2011 1:53:36 PM

4-Methyl-2-pentanone	ND	mg/Kg	0.50
Methylene chloride	ND	mg/Kg	0.15
n-Butylbenzene	ND	mg/Kg	0.050
n-Propylbenzene	ND	mg/Kg	0.050
sec-Butylbenzene	ND	mg/Kg	0.050
Styrene	ND	mg/Kg	0.050
tert-Butylbenzene	ND	mg/Kg	0.050
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.050
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.050
Tetrachloroethene (PCE)	ND	mg/Kg	0.050
trans-1,2-DCE	ND	mg/Kg	0.050
trans-1,3-Dichloropropene	ND	mg/Kg	0.050
1,2,3-Trichlorobenzene	ND	mg/Kg	0.10
1,2,4-Trichlorobenzene	ND	mg/Kg	0.050
1,1,1-Trichloroethane	ND	mg/Kg	0.050
1,1,2-Trichloroethane	ND	mg/Kg	0.050
Trichloroethene (TCE)	ND	mg/Kg	0.050
Trichlorofluoromethane	ND	mg/Kg	0.050
1,2,3-Trichloropropane	ND	mg/Kg	0.10
Vinyl chloride	ND	mg/Kg	0.050
Xylenes, Total	ND	mg/Kg	0.10

Sample ID: b2

MBLK

Batch ID: R44744 Analysis Date: 4/13/2011 12:10:41 PM

Benzene	ND	mg/Kg	0.050
Toluene	ND	mg/Kg	0.050
Ethylbenzene	ND	mg/Kg	0.050
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.050
1,2,4-Trimethylbenzene	ND	mg/Kg	0.050
1,3,5-Trimethylbenzene	ND	mg/Kg	0.050
1,2-Dichloroethane (EDC)	ND	mg/Kg	0.050
1,2-Dibromoethane (EDB)	ND	mg/Kg	0.050
Naphthalene	ND	mg/Kg	0.10
1-Methylnaphthalene	ND	mg/Kg	0.20
2-Methylnaphthalene	ND	mg/Kg	0.20
Acetone	ND	mg/Kg	0.75
Bromobenzene	ND	mg/Kg	0.050
Bromodichloromethane	ND	mg/Kg	0.050
Bromoform	ND	mg/Kg	0.050
Bromomethane	ND	mg/Kg	0.15
2-Butanone	ND	mg/Kg	0.50
Carbon disulfide	ND	mg/Kg	0.50
Carbon tetrachloride	ND	mg/Kg	0.10
Chlorobenzene	ND	mg/Kg	0.050
Chloroethane	ND	mg/Kg	0.10
Chloroform	ND	mg/Kg	0.050

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref.	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: b2

MBLK

Batch ID: R44744 Analysis Date: 4/13/2011 12:10:41 PM

Chloromethane	ND	mg/Kg	0.15
2-Chlorotoluene	ND	mg/Kg	0.050
4-Chlorotoluene	ND	mg/Kg	0.050
cis-1,2-DCE	ND	mg/Kg	0.050
cis-1,3-Dichloropropene	ND	mg/Kg	0.050
1,2-Dibromo-3-chloropropane	ND	mg/Kg	0.10
Dibromochloromethane	ND	mg/Kg	0.050
Dibromomethane	ND	mg/Kg	0.10
1,2-Dichlorobenzene	ND	mg/Kg	0.050
1,3-Dichlorobenzene	ND	mg/Kg	0.050
1,4-Dichlorobenzene	ND	mg/Kg	0.050
Dichlorodifluoromethane	ND	mg/Kg	0.050
1,1-Dichloroethane	ND	mg/Kg	0.10
1,1-Dichloroethene	ND	mg/Kg	0.050
1,2-Dichloropropane	ND	mg/Kg	0.050
1,3-Dichloropropane	ND	mg/Kg	0.050
2,2-Dichloropropane	ND	mg/Kg	0.10
1,1-Dichloropropene	ND	mg/Kg	0.10
Hexachlorobutadiene	ND	mg/Kg	0.10
2-Hexanone	ND	mg/Kg	0.50
Isopropylbenzene	ND	mg/Kg	0.050
4-Isopropyltoluene	ND	mg/Kg	0.050
4-Methyl-2-pentanone	ND	mg/Kg	0.50
Methylene chloride	ND	mg/Kg	0.15
n-Butylbenzene	ND	mg/Kg	0.050
n-Propylbenzene	ND	mg/Kg	0.050
sec-Butylbenzene	ND	mg/Kg	0.050
Styrene	ND	mg/Kg	0.050
tert-Butylbenzene	ND	mg/Kg	0.050
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.050
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.050
Tetrachloroethane (PCE)	ND	mg/Kg	0.050
trans-1,2-DCE	ND	mg/Kg	0.050
trans-1,3-Dichloropropene	ND	mg/Kg	0.050
1,2,3-Trichlorobenzene	ND	mg/Kg	0.10
1,2,4-Trichlorobenzene	ND	mg/Kg	0.050
1,1,1-Trichloroethane	ND	mg/Kg	0.050
1,1,2-Trichloroethane	ND	mg/Kg	0.050
Trichloroethene (TCE)	ND	mg/Kg	0.050
Trichlorofluoromethane	ND	mg/Kg	0.050
1,2,3-Trichloropropane	ND	mg/Kg	0.10
Vinyl chloride	ND	mg/Kg	0.050
Xylenes, Total	ND	mg/Kg	0.10

Sample ID: lcs-26239

LCS

Batch ID: 26239 Analysis Date: 4/7/2011 2:21:45 PM

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: lcs-26239

LCS

Batch ID: 26239 Analysis Date: 4/7/2011 2:21:45 PM

Benzene	0.8497	mg/Kg	0.050	1	0	85.0	68.3	120
Toluene	1.004	mg/Kg	0.050	1	0	100	90.4	118
Chlorobenzene	1.011	mg/Kg	0.050	1	0	101	94.2	111
1,1-Dichloroethene	0.8135	mg/Kg	0.050	1	0	81.3	53.7	140
Trichloroethene (TCE)	0.7352	mg/Kg	0.050	1	0	73.5	64.5	108

Sample ID: 100ng lcs

LCS

Batch ID: R44744 Analysis Date: 4/13/2011 1:07:07 PM

Benzene	1.090	mg/Kg	0.050	1	0	109	68.3	120
Toluene	1.005	mg/Kg	0.050	1	0	101	90.4	118
Chlorobenzene	0.9620	mg/Kg	0.050	1	0	96.2	94.2	111
1,1-Dichloroethene	1.187	mg/Kg	0.050	1	0	119	53.7	140
Trichloroethene (TCE)	0.9725	mg/Kg	0.050	1	0	97.3	64.5	108

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: 1104008-06a msd

MSD

Batch ID: R44594 Analysis Date: 4/6/2011 5:54:00 PM

Benzene	18.59	µg/L	1.0	20	0.301	91.4	82	118	8.81	17.1	
Toluene	18.99	µg/L	1.0	20	0.3632	93.1	81.1	122	12.1	16.1	
Chlorobenzene	17.69	µg/L	1.0	20	0	88.4	78.8	114	13.5	15.5	
1,1-Dichloroethene	19.26	µg/L	1.0	20	0	96.3	89	126	1.27	15.8	
Trichloroethene (TCE)	16.51	µg/L	1.0	20	0	82.6	73.9	114	7.69	19.6	

Sample ID: b2

MBLK

Batch ID: R44594 Analysis Date: 4/6/2011 10:58:24 AM

Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	3.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	3.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								

Qualifiers:

E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 NC Non-Chlorinated
 R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: b2

MBLK

Batch ID: R44594 Analysis Date: 4/6/2011 10:58:24 AM

2,2-Dichloropropane	ND	µg/L	2.0
1,1-Dichloropropene	ND	µg/L	1.0
Hexachlorobutadiene	ND	µg/L	1.0
2-Hexanone	ND	µg/L	10
Isopropylbenzene	ND	µg/L	1.0
4-Isopropyltoluene	ND	µg/L	1.0
4-Methyl-2-pentanone	ND	µg/L	10
Methylene Chloride	ND	µg/L	3.0
n-Butylbenzene	ND	µg/L	1.0
n-Propylbenzene	ND	µg/L	1.0
sec-Butylbenzene	ND	µg/L	1.0
Styrene	ND	µg/L	1.0
tert-Butylbenzene	ND	µg/L	1.0
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0
1,1,1,2,2-Tetrachloroethane	ND	µg/L	2.0
Tetrachloroethene (PCE)	ND	µg/L	1.0
trans-1,2-DCE	ND	µg/L	1.0
trans-1,3-Dichloropropene	ND	µg/L	1.0
1,2,3-Trichlorobenzene	ND	µg/L	1.0
1,2,4-Trichlorobenzene	ND	µg/L	1.0
1,1,1-Trichloroethane	ND	µg/L	1.0
1,1,2-Trichloroethane	ND	µg/L	1.0
Trichloroethene (TCE)	ND	µg/L	1.0
Trichlorofluoromethane	ND	µg/L	1.0
1,2,3-Trichloropropane	ND	µg/L	2.0
Vinyl chloride	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	1.5

Sample ID: b2

MBLK

Batch ID: R44744 Analysis Date: 4/13/2011 12:10:41 PM

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0
1,2,4-Trimethylbenzene	ND	µg/L	1.0
1,3,5-Trimethylbenzene	ND	µg/L	1.0
1,2-Dichloroethane (EDC)	ND	µg/L	1.0
1,2-Dibromoethane (EDB)	ND	µg/L	1.0
Naphthalene	ND	µg/L	2.0
1-Methylnaphthalene	ND	µg/L	4.0
2-Methylnaphthalene	ND	µg/L	4.0
Acetone	ND	µg/L	10
Bromobenzene	ND	µg/L	1.0
Bromodichloromethane	ND	µg/L	1.0
Bromoform	ND	µg/L	1.0
Bromomethane	ND	µg/L	3.0

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: b2

MBLK

Batch ID: R44744 Analysis Date: 4/13/2011 12:10:41 PM

2-Butanone	ND	µg/L	10
Carbon disulfide	ND	µg/L	10
Carbon Tetrachloride	ND	µg/L	1.0
Chlorobenzene	ND	µg/L	1.0
Chloroethane	ND	µg/L	2.0
Chloroform	ND	µg/L	1.0
Chloromethane	ND	µg/L	3.0
2-Chlorotoluene	ND	µg/L	1.0
4-Chlorotoluene	ND	µg/L	1.0
cis-1,2-DCE	ND	µg/L	1.0
cis-1,3-Dichloropropene	ND	µg/L	1.0
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0
Dibromochloromethane	ND	µg/L	1.0
Dibromomethane	ND	µg/L	1.0
1,2-Dichlorobenzene	ND	µg/L	1.0
1,3-Dichlorobenzene	ND	µg/L	1.0
1,4-Dichlorobenzene	ND	µg/L	1.0
Dichlorodifluoromethane	ND	µg/L	1.0
1,1-Dichloroethane	ND	µg/L	1.0
1,1-Dichloroethene	ND	µg/L	1.0
1,2-Dichloropropane	ND	µg/L	1.0
1,3-Dichloropropane	ND	µg/L	1.0
2,2-Dichloropropane	ND	µg/L	2.0
1,1-Dichloropropene	ND	µg/L	1.0
Hexachlorobutadiene	ND	µg/L	1.0
2-Hexanone	ND	µg/L	10
Isopropylbenzene	ND	µg/L	1.0
4-Isopropyltoluene	ND	µg/L	1.0
4-Methyl-2-pentanone	ND	µg/L	10
Methylene Chloride	ND	µg/L	3.0
n-Butylbenzene	ND	µg/L	1.0
n-Propylbenzene	ND	µg/L	1.0
sec-Butylbenzene	ND	µg/L	1.0
Styrene	ND	µg/L	1.0
tert-Butylbenzene	ND	µg/L	1.0
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0
Tetrachloroethene (PCE)	ND	µg/L	1.0
trans-1,2-DCE	ND	µg/L	1.0
trans-1,3-Dichloropropene	ND	µg/L	1.0
1,2,3-Trichlorobenzene	ND	µg/L	1.0
1,2,4-Trichlorobenzene	ND	µg/L	1.0
1,1,1-Trichloroethane	ND	µg/L	1.0
1,1,2-Trichloroethane	ND	µg/L	1.0

Qualifiers:

E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 NC Non-Chlorinated
 R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: b2

MBLK

Batch ID: R44744 Analysis Date: 4/13/2011 12:10:41 PM

Trichloroethene (TCE)	ND	µg/L	1.0
Trichlorofluoromethane	ND	µg/L	1.0
1,2,3-Trichloropropane	ND	µg/L	2.0
Vinyl chloride	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	1.5

Sample ID: 100ng lcs

LCS

Batch ID: R44594 Analysis Date: 4/6/2011 10:30:15 AM

Benzene	21.43	µg/L	1.0	20	0.281	106	85.2	121
Toluene	21.28	µg/L	1.0	20	0.142	106	88.3	121
Chlorobenzene	20.11	µg/L	1.0	20	0.262	99.2	91.9	110
1,1-Dichloroethene	24.85	µg/L	1.0	20	0	124	91.5	134
Trichloroethene (TCE)	18.67	µg/L	1.0	20	0	93.3	78.3	102

Sample ID: 100ng lcs

LCS

Batch ID: R44744 Analysis Date: 4/13/2011 1:07:07 PM

Benzene	21.80	µg/L	1.0	20	0	109	85.2	121
Toluene	20.11	µg/L	1.0	20	0.1372	99.9	88.3	121
Chlorobenzene	19.24	µg/L	1.0	20	0	96.2	91.9	110
1,1-Dichloroethene	23.73	µg/L	1.0	20	0	119	91.5	134
Trichloroethene (TCE)	19.45	µg/L	1.0	20	0	97.3	78.3	102

Sample ID: 1104008-06a ms

MS

Batch ID: R44594 Analysis Date: 4/6/2011 5:25:48 PM

Benzene	17.02	µg/L	1.0	20	0.301	83.6	82	118
Toluene	16.83	µg/L	1.0	20	0.3632	82.3	81.1	122
Chlorobenzene	15.45	µg/L	1.0	20	0	77.3	78.8	114
1,1-Dichloroethene	19.50	µg/L	1.0	20	0	97.5	89	126
Trichloroethene (TCE)	15.29	µg/L	1.0	20	0	76.5	73.9	114

S

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: 1104008-01Amsd		MSD				Batch ID: 26243	Analysis Date: 4/7/2011 7:28:39 PM				
4-Chloro-3-methylphenol	2.782	mg/Kg	0.50	3.33	0	83.5	17.4	119	3.60	20.2	
2-Chlorophenol	2.074	mg/Kg	0.20	3.33	0	62.3	25.3	117	3.61	30.6	
4-Nitrophenol	2.755	mg/Kg	0.25	3.33	0	82.7	13.7	165	0.327	43.7	
Pentachlorophenol	2.703	mg/Kg	0.40	3.33	0.061	79.3	26.6	117	5.28	24.2	
Phenol	2.193	mg/Kg	0.20	3.33	0	65.8	26.6	105	3.70	29.5	
Sample ID: mb-26243		MBLK				Batch ID: 26243	Analysis Date: 4/7/2011 5:30:37 PM				
4-Chloro-3-methylphenol	ND	mg/Kg	0.50								
2-Chlorophenol	ND	mg/Kg	0.20								
2,4-Dichlorophenol	ND	mg/Kg	0.40								
2,4-Dimethylphenol	ND	mg/Kg	0.30								
4,6-Dinitro-2-methylphenol	ND	mg/Kg	0.50								
2,4-Dinitrophenol	ND	mg/Kg	0.40								
2-Methylphenol	ND	mg/Kg	0.50								
3+4-Methylphenol	ND	mg/Kg	0.20								
2-Nitrophenol	ND	mg/Kg	0.20								
4-Nitrophenol	ND	mg/Kg	0.25								
Pentachlorophenol	ND	mg/Kg	0.40								
Phenol	ND	mg/Kg	0.20								
2,4,5-Trichlorophenol	ND	mg/Kg	0.20								
2,4,6-Trichlorophenol	ND	mg/Kg	0.20								
Sample ID: lcs-26243		LCS				Batch ID: 26243	Analysis Date: 4/7/2011 6:00:03 PM				
4-Chloro-3-methylphenol	2.586	mg/Kg	0.50	3.33	0	77.7	31.9	112			
2-Chlorophenol	1.982	mg/Kg	0.20	3.33	0	59.5	31.2	110			
4-Nitrophenol	2.306	mg/Kg	0.25	3.33	0	69.2	32.4	114			
Pentachlorophenol	2.016	mg/Kg	0.40	3.33	0	60.5	30.4	101			
Phenol	1.953	mg/Kg	0.20	3.33	0	58.6	27.9	105			
Sample ID: 1104008-01Ams		MS				Batch ID: 26243	Analysis Date: 4/7/2011 6:59:12 PM				
4-Chloro-3-methylphenol	2.884	mg/Kg	0.50	3.33	0	86.6	17.4	119			
2-Chlorophenol	2.151	mg/Kg	0.20	3.33	0	64.6	25.3	117			
4-Nitrophenol	2.746	mg/Kg	0.25	3.33	0	82.5	13.7	165			
Pentachlorophenol	2.564	mg/Kg	0.40	3.33	0.061	75.2	26.6	117			
Phenol	2.275	mg/Kg	0.20	3.33	0	68.3	26.6	105			

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8310: PAHs

Sample ID: 1104008-01AMSD

MSD

Batch ID: 26348

Analysis Date: 4/13/2011 2:33:40 PM

Naphthalene	0.8175	mg/Kg	0.25	2	0	40.9	42.9	109	5.50	20	S
1-Methylnaphthalene	0.9000	mg/Kg	0.25	2	0	45.0	45	117	2.44	20	
2-Methylnaphthalene	0.8260	mg/Kg	0.25	2	0	41.3	41.3	109	7.80	20	
Acenaphthylene	0.8125	mg/Kg	0.25	2	0	40.6	36.1	118	6.81	20	
Acenaphthene	0.9218	mg/Kg	0.25	2	0	46.1	42.1	117	6.00	20	
Fluorene	0.07175	mg/Kg	0.030	0.2	0	35.9	10.2	103	13.9	20	
Phenanthrene	0.05200	mg/Kg	0.015	0.101	0	51.7	25.5	113	0.957	20	
Anthracene	0.05325	mg/Kg	0.015	0.101	0	52.9	38.3	108	11.9	20	
Fluoranthene	0.1108	mg/Kg	0.020	0.201	0	55.2	28.4	121	15.4	20	
Pyrene	0.08925	mg/Kg	0.025	0.2	0	44.6	23.6	115	10.1	20	
Benz(a)anthracene	0.01125	mg/Kg	0.010	0.02	0	56.3	17.5	126	12.5	20	
Chrysene	0.05175	mg/Kg	0.011	0.101	0	51.4	39.7	110	12.7	20	
Benzo(b)fluoranthene	0.01400	mg/Kg	0.010	0.025	0	56.0	38.7	114	11.8	20	
Benzo(k)fluoranthene	ND	mg/Kg	0.010	0.013	0	44.0	30.5	132	0	20	
Benzo(a)pyrene	ND	mg/Kg	0.010	0.013	0	60.0	43.1	115	0	20	
Dibenz(a,h)anthracene	0.01550	mg/Kg	0.010	0.025	0	62.0	38.7	122	9.23	20	
Benzo(g,h,i)perylene	0.01750	mg/Kg	0.010	0.025	0.002	62.0	36.2	121	9.52	20	
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.10	0.050	0	56.5	42.5	122	0	20	

Sample ID: MB-26348

MBLK

Batch ID: 26348

Analysis Date: 4/13/2011 12:46:14 PM

Naphthalene	ND	mg/Kg	0.25								
1-Methylnaphthalene	ND	mg/Kg	0.25								
2-Methylnaphthalene	ND	mg/Kg	0.25								
Acenaphthylene	ND	mg/Kg	0.25								
Acenaphthene	ND	mg/Kg	0.25								
Fluorene	ND	mg/Kg	0.030								
Phenanthrene	ND	mg/Kg	0.015								
Anthracene	ND	mg/Kg	0.015								
Fluoranthene	ND	mg/Kg	0.020								
Pyrene	ND	mg/Kg	0.025								
Benz(a)anthracene	ND	mg/Kg	0.010								
Chrysene	ND	mg/Kg	0.011								
Benzo(b)fluoranthene	ND	mg/Kg	0.010								
Benzo(k)fluoranthene	ND	mg/Kg	0.010								
Benzo(a)pyrene	ND	mg/Kg	0.010								
Dibenz(a,h)anthracene	ND	mg/Kg	0.010								
Benzo(g,h,i)perylene	ND	mg/Kg	0.010								
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.10								

Sample ID: LCS-26348

LCS

Batch ID: 26348

Analysis Date: 4/13/2011 1:07:34 PM

Naphthalene	0.9658	mg/Kg	0.25	2	0	48.3	42.5	107			
1-Methylnaphthalene	1.049	mg/Kg	0.25	2	0	52.4	39.9	116			
2-Methylnaphthalene	0.9763	mg/Kg	0.25	2	0	48.8	42.3	107			
Acenaphthylene	0.9048	mg/Kg	0.25	2	0	45.2	44.2	104			
Acenaphthene	1.006	mg/Kg	0.25	2	0	50.3	44.8	112			
Fluorene	0.07525	mg/Kg	0.030	0.2	0	37.6	29	111			

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8310: PAHs

Sample ID: LCS-26348

LCS

Batch ID: 26348 Analysis Date: 4/13/2011 1:07:34 PM

Phenanthrene	0.05175	mg/Kg	0.015	0.101	0	51.4	34.5	121			
Anthracene	0.04675	mg/Kg	0.015	0.101	0	46.5	28.8	113			
Fluoranthene	0.09775	mg/Kg	0.020	0.201	0	48.7	27.9	118			
Pyrene	0.07950	mg/Kg	0.025	0.2	0	39.8	19.6	113			
Benz(a)anthracene	ND	mg/Kg	0.010	0.02	0	46.3	35	110			
Chrysene	0.04375	mg/Kg	0.011	0.101	0	43.5	41.6	106			
Benzo(b)fluoranthene	0.01225	mg/Kg	0.010	0.025	0	49.0	24.8	139			
Benzo(k)fluoranthene	ND	mg/Kg	0.010	0.013	0	40.0	35.8	118			
Benzo(a)pyrene	ND	mg/Kg	0.010	0.013	0	52.0	39.2	109			
Dibenz(a,h)anthracene	0.01350	mg/Kg	0.010	0.025	0	54.0	46.7	114			
Benzo(g,h,i)perylene	0.01425	mg/Kg	0.010	0.025	0.0015	51.0	43.3	108			
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.10	0.050	0	48.0	41.9	124			

Sample ID: 1104008-01AMS

MS

Batch ID: 26348 Analysis Date: 4/13/2011 2:12:24 PM

Naphthalene	0.8638	mg/Kg	0.25	2	0	43.2	42.9	109			
1-Methylnaphthalene	0.9223	mg/Kg	0.25	2	0	46.1	45	117			
2-Methylnaphthalene	0.8930	mg/Kg	0.25	2	0	44.7	41.3	109			
Acenaphthylene	0.8698	mg/Kg	0.25	2	0	43.5	36.1	118			
Acenaphthene	0.9788	mg/Kg	0.25	2	0	48.9	42.1	117			
Fluorene	0.08250	mg/Kg	0.030	0.2	0	41.3	10.2	103			
Phenanthrene	0.05250	mg/Kg	0.015	0.101	0	52.2	25.5	113			
Anthracene	0.06000	mg/Kg	0.015	0.101	0	59.6	38.3	108			
Fluoranthene	0.1293	mg/Kg	0.020	0.201	0	64.4	28.4	121			
Pyrene	0.09875	mg/Kg	0.025	0.2	0	49.4	23.6	115			
Benz(a)anthracene	0.01275	mg/Kg	0.010	0.02	0	63.8	17.5	126			
Chrysene	0.05875	mg/Kg	0.011	0.101	0	58.4	39.7	110			
Benzo(b)fluoranthene	0.01575	mg/Kg	0.010	0.025	0	63.0	38.7	114			
Benzo(k)fluoranthene	ND	mg/Kg	0.010	0.013	0	54.0	30.5	132			
Benzo(a)pyrene	ND	mg/Kg	0.010	0.013	0	72.0	43.1	115			
Dibenz(a,h)anthracene	0.01700	mg/Kg	0.010	0.025	0	68.0	38.7	122			
Benzo(g,h,i)perylene	0.01925	mg/Kg	0.010	0.025	0.002	69.0	36.2	121			
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.10	0.050	0	62.5	42.5	122			

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8310: PAHs

Sample ID: 1104008-04DMSD

MSD

Batch ID: 26424

Analysis Date: 4/21/2011 8:47:41 PM

Naphthalene	51.63	µg/L	2.0	80	2.54	61.4	70	130	1.38	30	S
1-Methylnaphthalene	51.69	µg/L	2.0	80.2	0	64.5	70	130	2.01	30	S
2-Methylnaphthalene	53.65	µg/L	2.0	80	1.71	64.9	70	130	0.502	30	S
Acenaphthylene	52.23	µg/L	2.5	80.2	0	65.1	70	130	3.74	30	S
Acenaphthene	56.01	µg/L	5.0	80	0	70.0	70	130	2.19	30	
Fluorene	4.680	µg/L	0.80	8.02	0.41	53.2	70	130	2.32	30	S
Phenanthrene	1.380	µg/L	0.60	4.02	0	34.3	70	130	1.44	30	S
Anthracene	2.710	µg/L	0.60	4.02	0	67.4	70	130	10.8	30	S
Fluoranthene	5.610	µg/L	0.30	8.02	0	70.0	70	130	2.34	30	S
Pyrene	4.640	µg/L	0.30	8.02	0	57.9	70	130	14.8	30	S
Benz(a)anthracene	0.6700	µg/L	0.070	0.802	0.07	74.8	70	130	4.38	30	
Chrysene	3.080	µg/L	0.20	4.02	0.13	73.4	70	130	4.75	30	
Benzo(b)fluoranthene	0.8500	µg/L	0.10	1.002	0	84.8	70	130	6.82	30	
Benzo(k)fluoranthene	0.3700	µg/L	0.070	0.5	0	74.0	70	130	7.79	30	
Benzo(a)pyrene	0.3700	µg/L	0.070	0.502	0	73.7	70	130	5.26	30	
Dibenz(a,h)anthracene	0.8200	µg/L	0.070	1.002	0	81.8	70	130	5.92	30	
Benzo(g,h,i)perylene	0.8500	µg/L	0.080	1	0.07	78.0	70	130	5.71	30	
Indeno(1,2,3-cd)pyrene	1.520	µg/L	0.080	2.004	0.06	72.9	70	130	4.50	30	

Sample ID: MB-26424

MBLK

Batch ID: 26424

Analysis Date: 4/21/2011 6:39:37 PM

Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	2.0								
2-Methylnaphthalene	ND	µg/L	2.0								
Acenaphthylene	ND	µg/L	2.5								
Acenaphthene	ND	µg/L	5.0								
Fluorene	ND	µg/L	0.80								
Phenanthrene	ND	µg/L	0.60								
Anthracene	ND	µg/L	0.60								
Fluoranthene	ND	µg/L	0.30								
Pyrene	ND	µg/L	0.30								
Benz(a)anthracene	ND	µg/L	0.070								
Chrysene	ND	µg/L	0.20								
Benzo(b)fluoranthene	ND	µg/L	0.10								
Benzo(k)fluoranthene	ND	µg/L	0.070								
Benzo(a)pyrene	ND	µg/L	0.070								
Dibenz(a,h)anthracene	ND	µg/L	0.070								
Benzo(g,h,i)perylene	ND	µg/L	0.080								
Indeno(1,2,3-cd)pyrene	ND	µg/L	0.080								

Sample ID: LCS-26424

LCS

Batch ID: 26424

Analysis Date: 4/21/2011 7:01:00 PM

Naphthalene	56.26	µg/L	2.0	80	0	70.3	53.2	86.7			
1-Methylnaphthalene	57.58	µg/L	2.0	80.2	0	71.8	49.8	96			
2-Methylnaphthalene	58.03	µg/L	2.0	80	0	72.5	51.4	89.8			
Acenaphthylene	60.29	µg/L	2.5	80.2	0	75.2	54.1	91.8			
Acenaphthene	63.12	µg/L	5.0	80	0	78.9	53.5	98.4			
Fluorene	4.920	µg/L	0.80	8.02	0	61.3	23.1	107			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8310: PAHs

Sample ID: LCS-26424 LCS Batch ID: 26424 Analysis Date: 4/21/2011 7:01:00 PM

Phenanthrene	1.940	µg/L	0.60	4.02	0	48.3	21.9	110			
Anthracene	2.810	µg/L	0.60	4.02	0	69.9	38	104			
Fluoranthene	5.560	µg/L	0.30	8.02	0	69.3	43	101			
Pyrene	4.840	µg/L	0.30	8.02	0	60.3	31.8	99.1			
Benz(a)anthracene	0.6900	µg/L	0.070	0.802	0.03	82.3	38.3	94.3			
Chrysene	3.120	µg/L	0.20	4.02	0.1	75.1	42.4	95.8			
Benzo(b)fluoranthene	0.9100	µg/L	0.10	1.002	0	90.8	29.8	124			
Benzo(k)fluoranthene	0.4000	µg/L	0.070	0.5	0	80.0	40.7	109			
Benzo(a)pyrene	0.4000	µg/L	0.070	0.502	0	79.7	47.7	98.9			
Dibenz(a,h)anthracene	0.8400	µg/L	0.070	1.002	0.04	79.8	50.3	104			
Benzo(g,h,i)perylene	0.8700	µg/L	0.080	1	0.06	81.0	49.4	97.5			
Indeno(1,2,3-cd)pyrene	1.550	µg/L	0.080	2.004	0	77.3	53.5	111			

Sample ID: 1104008-04DMS

MS

Batch ID: 26424 Analysis Date: 4/21/2011 8:26:22 PM

Naphthalene	52.35	µg/L	2.0	80	2.54	62.3	70	130			S
1-Methylnaphthalene	52.74	µg/L	2.0	80.2	0	65.8	70	130			S
2-Methylnaphthalene	53.92	µg/L	2.0	80	1.71	65.3	70	130			S
Acenaphthylene	54.22	µg/L	2.5	80.2	0	67.6	70	130			S
Acenaphthene	57.25	µg/L	5.0	80	0	71.6	70	130			
Fluorene	4.790	µg/L	0.80	8.02	0.41	54.6	70	130			S
Phenanthrene	1.400	µg/L	0.60	4.02	0	34.8	70	130			S
Anthracene	3.020	µg/L	0.60	4.02	0	75.1	70	130			
Fluoranthene	5.480	µg/L	0.30	8.02	0	68.3	70	130			S
Pyrene	5.380	µg/L	0.30	8.02	0	67.1	70	130			S
Benz(a)anthracene	0.7000	µg/L	0.070	0.802	0.07	78.6	70	130			
Chrysene	3.230	µg/L	0.20	4.02	0.13	77.1	70	130			
Benzo(b)fluoranthene	0.9100	µg/L	0.10	1.002	0	90.8	70	130			
Benzo(k)fluoranthene	0.4000	µg/L	0.070	0.5	0	80.0	70	130			
Benzo(a)pyrene	0.3900	µg/L	0.070	0.502	0	77.7	70	130			
Dibenz(a,h)anthracene	0.8700	µg/L	0.070	1.002	0	86.8	70	130			
Benzo(g,h,i)perylene	0.9000	µg/L	0.080	1	0.07	83.0	70	130			
Indeno(1,2,3-cd)pyrene	1.590	µg/L	0.080	2.004	0.06	76.3	70	130			

Method: EPA Method 7471: Mercury

Sample ID: 1104008-01AMSD MSD Batch ID: 26253 Analysis Date: 4/5/2011 12:49:59 PM

Mercury 0.1720 mg/Kg 0.033 0.166 0.0029 102 75 125 1.84 20

Sample ID: MB-26253 MBLK Batch ID: 26253 Analysis Date: 4/5/2011 12:28:34 PM

Mercury ND mg/Kg 0.033

Sample ID: LCS-26253 LCS Batch ID: 26253 Analysis Date: 4/5/2011 12:30:18 PM

Mercury 0.1530 mg/Kg 0.033 0.167 0 91.8 80 120

Sample ID: 1104008-01AMS MS Batch ID: 26253 Analysis Date: 4/5/2011 12:44:29 PM

Mercury 0.1688 mg/Kg 0.033 0.166 0.0029 99.9 75 125

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	--------	---------	------	----------	-----------	------	----------	------

Method: EPA Method 6010B: Soil Metals

Sample ID: MB-26237

MBLK

Batch ID: 26237 Analysis Date: 4/5/2011 11:07:03 AM

Arsenic	ND	mg/Kg	2.5
Barium	ND	mg/Kg	0.10
Cadmium	ND	mg/Kg	0.10
Chromium	ND	mg/Kg	0.30
Copper	ND	mg/Kg	0.30
Iron	ND	mg/Kg	1.0
Lead	ND	mg/Kg	0.25
Manganese	ND	mg/Kg	0.10
Selenium	ND	mg/Kg	2.5
Silver	ND	mg/Kg	0.25
Uranium	ND	mg/Kg	5.0
Zinc	ND	mg/Kg	2.5

Sample ID: LCS-26237

LCS

Batch ID: 26237 Analysis Date: 4/5/2011 11:09:51 AM

Arsenic	24.04	mg/Kg	2.5	25	0	96.2	80	120
Barium	23.07	mg/Kg	0.10	25	0.0671	92.0	80	120
Cadmium	23.60	mg/Kg	0.10	25	0	94.4	80	120
Chromium	24.33	mg/Kg	0.30	25	0.0759	97.0	80	120
Copper	25.25	mg/Kg	0.30	25	0.1513	100	80	120
Iron	24.02	mg/Kg	1.0	25	0	96.1	80	120
Lead	22.47	mg/Kg	0.25	25	0	89.9	80	120
Manganese	23.42	mg/Kg	0.10	25	0	93.7	80	120
Selenium	23.79	mg/Kg	2.5	25	0	95.2	80	120
Silver	23.45	mg/Kg	0.25	25	0.0223	93.7	80	120
Uranium	25.12	mg/Kg	5.0	25	0	100	80	120
Zinc	23.83	mg/Kg	2.5	25	0.6173	92.9	80	120

Method: SM2540C MOD: Total Dissolved Solids

Sample ID: 1104008-04GMSD

MSD

Batch ID: 26401 Analysis Date: 4/14/2011 8:54:00 PM

Total Dissolved Solids 13670 mg/L 100 5000 8645 101 80 120 0.547 20

Sample ID: MB-26401

MBLK

Batch ID: 26401 Analysis Date: 4/14/2011 8:54:00 PM

Total Dissolved Solids ND mg/L 20.0

Sample ID: LCS-26401

LCS

Batch ID: 26401 Analysis Date: 4/14/2011 8:54:00 PM

Total Dissolved Solids 1000 mg/L 20.0 1000 0 100 80 120

Sample ID: 1104008-04GMS

MS

Batch ID: 26401 Analysis Date: 4/14/2011 8:54:00 PM

Total Dissolved Solids 13750 mg/L 100 5000 8645 102 80 120

Qualifiers:

E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 NC Non-Chlorinated
 R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU

Date Received:

3/31/2011

Work Order Number 1104008

Received by: AMF

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name: Client drop-off

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☐

Not Shipped ☒

Custody seals intact on sample bottles?

Yes ☒

No ☐

N/A ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☒

Yes ☐

No ☐

Water - Preservation labels on bottle and cap match?

Yes ☐

No ☐

N/A ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

Container/Temp Blank temperature?

8.6"

<6° C Acceptable

If given sufficient time to cool.

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

Corrective Action

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, August 16, 2011 4:51 PM
To: 'Grant Price'
Cc: Riege, Ed; VanHorn, Kristen, NMENV; Cobrain, Dave, NMENV; VonGonten, Glenn, EMNRD
Subject: RE: Western Refining - OCD Landfarms/Proposed Background Values

Ed and Grant:

The agencies have reviewed the draft document provided during the meeting in Santa Fe on August 10, 2011.

Please add the RCRA cleanup criteria column to the table.

One comment discussed with Ed Riege during the meeting was the 20x dilution for the WQCC 20.6.2.3103 inorganics (i.e., chlorides, fluorides, sulfate.....). Please be sure to add an OCD Small Landfarm column for Chlorides (500 ppm), TPH, etc. in the table along with the RCRA cleanup criteria column.

Also, the cover letter will request closure of the temporary landfarm (NE Landfarm), but also post any exceedences to our criteria based on your review from the NE landfarm sampling for final consideration by the OCD.

Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us

Website: <http://www.emnrd.state.nm.us/ocd/index.htm>

"Why not Prevent Pollution; Minimize Waste; Reduce the Cost of Operations; & Move Forward with the Rest of the Nation?" To see how, go to "Pollution Prevention & Waste Minimization" at:

<http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental>)

From: Grant Price [<mailto:gprice@trihydro.com>]
Sent: Thursday, July 14, 2011 3:22 PM
To: Chavez, Carl J, EMNRD
Cc: Riege, Ed
Subject: Western Refining - OCD Landfarms/Proposed Background Values

Hi Carl,

The Proposed Background Value Table and the Northeast Landfarm Closure Evaluation Table have been attached for your review. These are the same tables that Ed sent to you yesterday, they have just been formatted so they're a little easier to read. I've also attached a flow chart to accompany the Northeast Landfarm Closure Evaluation Table that is meant to help us walk through the soil disposal options and criteria. I have intentionally left the "draft" stamp on these documents; I would like to have the opportunity to discuss them with you and Ed prior to "finalization" so that we can make any necessary edits. Hardcopies of the attached documents are being shipped today.

Thanks,

Grant Price
Geologist



1252 Commerce Drive
Laramie, Wyoming 82070
307/745-7474 (phone)
307/745-7729 (fax)
gprice@trihydro.com
www.trihydro.com

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RECEIVED OCD

2011 JUL 18 A 11:36

transmittal sheet

To:	<u>Carl Chavez</u>	From:	<u>Grant Price</u>
Company:	<u>New Mexico Oil Conservation Division, Environmental Bureau</u>	Date:	<u>7/14/2011</u>
Address:	<u>1220 South St. Francis Dr.</u>	Job Number:	<u>697-039-002</u>
City, State, Zip:	<u>Santa Fe, New Mexico 87505</u>	Project Name:	<u>Refinery</u>
Fax:	<u></u>	Re:	<u>OCD Landfarm Proposed Background Concentrations/NE Landfarm Closure Evaluation</u>
Telephone:	<u>(505) 476-3462</u>		

Copies:	We are Enclosing:
<u>1</u>	<u>Proposed Background Values Table, Oil Conservation Division Landfarms</u>
<u>1</u>	<u>Northeast Oil Conservation Division Landfarm Closure Evaluation Table</u>
<u>1</u>	<u>Soil Disposal Options and Criteria Flow Chart</u>

Remarks:

Carl

The above-referenced tables/flow chart are enclosed for your review. I have intentionally left the "draft" stamp on these documents; I would like to have the opportunity to discuss them with you and Ed prior to "finalization" so that we can make any necessary edits. If you have any questions, please call me at (307) 745-7474.

Thank you,

Grant Price

cc: Ed Riege ~ Western Refining

Signature: _____

A handwritten signature in dark ink, appearing to read "Grant Price", is written over a horizontal line.

If enclosures are not as noted, please notify us at 307/745.7474

**TABLE 2. NORTHEAST OIL CONSERVATION DIVISION LANDFARM CLOSURE EVALUATION
WESTERN REFINING SOUTHWEST, GALLUP REFINERY, GALLUP, NEW MEXICO**

Analyte	Analytic Method	Reporting Units	Sample ID "NEOCD Closure" Collected November 2010			Screening Standards										
			Result	PQL	Value used for Screening Comparison (Result if detected, PQL if not)	Screening Standard 1		Screening Standard 2		Screening Standard 3		Screening Standard 4		Screening Standard 5		
						Proposed Background Value (from Table 1)	Exceedance (Yes/No)	Industrial/ Occupational Soil (mg/kg)	Exceedance (Yes/No)	Construction Worker Soil (mg/kg)	Exceedance (Yes/No)	C-137	Exceedance (Yes/No)	NMAC 3103 (mg/L) (no dilution)	NMAC 3103 (20X dilution)	Exceedance (Yes/No)
Chloride	E300	mg/kg	100.000	30.000	100.000	7.525	YES	NA	NA	NA	NA	500	no	250	5000	no
Fluoride	E300	mg/kg	8.900	6.000	8.900	2.950	YES	68100	no	18600	no	NA	NA	1.6	32	no
Nitrogen, Nitrate (As N)	E300	mg/kg	14.000	6.000	14.000	2.200	YES	1820000	no	496000	no	NA	NA	10	200	no
Sulfate	E300	mg/kg	670.000	30.000	670.000	21.500	YES	NA	NA	NA	NA	NA	NA	600	12000	no
Radium-226	E901.1	pCi/g	0.500	NA	0.500	1.395	no	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radium-228	E901.1	pCi/g	1.000	NA	1.000	1.250	no	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radium-226+Radium-228	E901.1	pCi/g	NA	NA	1.500	2.645	no	NA	NA	NA	NA	NA	NA	30	600	no
Arsenic	SW6010A	mg/kg	ND	13.000	13.000	13.000	no	17.7	no	65.4	no	NA	NA	0.1	2	YES
Barium	SW6010A	mg/kg	300.000	1.000	300.000	365.000	no	224000	no	4350	no	NA	NA	1	20	YES
Cadmium	SW6010A	mg/kg	ND	0.500	0.500	0.500	no	1120	no	309	no	NA	NA	0.01	0.2	YES
Chromium	SW6010A	mg/kg	15.000	1.500	15.000	12.700	YES	1570000	no	447000	no	NA	NA	0.05	1	YES
Copper	SW6010A	mg/kg	3.600	1.500	3.600	2.950	YES	45400	no	12400	no	NA	NA	1	20	no
Iron	SW6010A	mg/kg	16000.000	500.000	16000.000	17333.333	no	795000	no	217000	no	NA	NA	1	20	YES
Lead	SW6010A	mg/kg	8.400	1.300	8.400	5.533	YES	800	no	800	no	NA	NA	0.05	1	YES
Manganese	SW6010A	mg/kg	460.000	1.000	460.000	520.000	no	145000	no	463	no	NA	NA	0.2	4	YES
Selenium	SW6010A	mg/kg	ND	13.000	13.000	13.000	no	5680	no	1550	no	NA	NA	0.05	1	YES
Silver	SW6010A	mg/kg	ND	1.300	1.300	1.300	no	5680	no	1550	no	NA	NA	0.05	1	YES
Uranium	SW6010A	mg/kg	ND	50.000	50.000	43.750	YES	3410	no	929	no	NA	NA	0.03	0.6	YES
Zinc	SW6010A	mg/kg	24.000	13.000	24.000	21.333	YES	341000	no	92900	no	NA	NA	10	200	no
Mercury	SW7471	mg/kg	ND	0.033	0.033	0.107	no	49.9	no	63.6	no	NA	NA	0.002	0.04	no
Aroclor 1016	SW8082	mg/kg	ND	0.100	0.100	0.020	YES	41.3	no	15.3	no	NA	NA	0.001	0.02	YES
Aroclor 1221	SW8082	mg/kg	ND	0.100	0.100	0.020	YES	7.06	no	71.3	no	NA	NA	0.001	0.02	YES
Aroclor 1232	SW8082	mg/kg	ND	0.100	0.100	0.020	YES	7.06	no	71.3	no	NA	NA	0.001	0.02	YES
Aroclor 1242	SW8082	mg/kg	ND	0.100	0.100	0.020	YES	8.26	no	75.8	no	NA	NA	0.001	0.02	YES
Aroclor 1248	SW8082	mg/kg	ND	0.100	0.100	0.020	YES	8.26	no	75.8	no	NA	NA	0.001	0.02	YES
Aroclor 1254	SW8082	mg/kg	ND	0.100	0.100	0.020	YES	8.26	no	4.36	no	NA	NA	0.001	0.02	YES
Aroclor 1260	SW8082	mg/kg	ND	0.100	0.100	0.020	YES	8.26	no	75.8	no	NA	NA	0.001	0.02	YES
1,1,1-Trichloroethane	SW8260B	mg/kg	ND	0.050	0.050	0.050	no	77100	no	64300	no	NA	NA	0.06	1.2	no
1,1,2-Trichloroethane	SW8260B	mg/kg	ND	0.050	0.050	0.050	no	94.3	no	1240	no	NA	NA	0.01	0.2	no
1,1-Dichloroethane	SW8260B	mg/kg	ND	0.100	0.100	0.100	no	350	no	6880	no	NA	NA	0.025	0.5	no
1,1-Dichloroethene	SW8260B	mg/kg	ND	0.050	0.050	0.050	no	2220	no	1830	no	NA	NA	0.005	0.1	no
1,2-Dichloroethane	SW8260B	mg/kg	ND	0.050	0.050	0.050	no	42.8	no	751	no	NA	NA	0.01	0.2	no
Benzene	SW8260B	mg/kg	ND	0.050	0.050	0.050	no	85.4	no	471	no	0.2	no	0.01	0.2	no
Carbon tetrachloride	SW8260B	mg/kg	ND	0.100	0.100	0.100	no	24.3	no	199	no	NA	NA	0.01	0.2	no
Chloroform	SW8260B	mg/kg	ND	0.050	0.050	0.050	no	31.9	no	671	no	NA	NA	0.1	2	no
Dibromomethane	SW8260B	mg/kg	ND	0.100	0.100	0.100	no	NA	NA	NA	NA	NA	NA	0.0001	0.002	YES
Ethylbenzene	SW8260B	mg/kg	ND	0.050	0.050	0.050	no	385	no	6630	no	NA	NA	0.75	15	no
Methylene chloride	SW8260B	mg/kg	ND	0.150	0.150	0.150	no	1090	no	10600	no	NA	NA	0.1	2	no
Tetrachloroethene	SW8260B	mg/kg	ND	0.050	0.050	0.050	no	36.4	no	338	no	NA	NA	0.02	0.4	no
Toluene	SW8260B	mg/kg	ND	0.050	0.050	0.050	no	57900	no	21100	no	NA	NA	0.75	15	no
Trichloroethene	SW8260B	mg/kg	ND	0.050	0.050	0.050	no	253	no	4600	no	NA	NA	0.1	2	no
Vinyl chloride	SW8260B	mg/kg	ND	0.050	0.050	0.050	no	25.9	no	248	no	NA	NA	0.001	0.02	YES
Xylenes, Total	SW8260B	mg/kg	ND	0.100	0.100	0.100	no	3610	no	3130	no	NA	NA	0.62	12.4	no

TABLE 2. NORTHEAST OIL CONSERVATION DIVISION LANDFARM CLOSURE EVALUATION
WESTERN REFINING SOUTHWEST, GALLUP REFINERY, GALLUP, NEW MEXICO

Analyte	Analytic Method	Reporting Units	Sample ID "NEOCD Closure" Collected November 2010			Screening Standards										
						Screening Standard 1		Screening Standard 2		Screening Standard 3		Screening Standard 4		Screening Standard 5		
			Result	PQL	Value used for Screening Comparison (Result if detected, PQL if not)	Proposed Background Value (from Table 1)	Exceedance (Yes/No)	Industrial/Occupational Soil (mg/kg)	Exceedance (Yes/No)	Construction Worker Soil (mg/kg)	Exceedance (Yes/No)	C-137	Exceedance (Yes/No)	NMAC 3103 (mg/L) (no dilution)	NMAC 3103 (20X dilution)	Exceedance (Yes/No)
2,4,5-Trichlorophenol	SW8270C	mg/kg	ND	0.200	0.200	0.200	no	68400	no	23800	no	NA	NA	0.005	0.1	YES
2,4,6-Trichlorophenol	SW8270C	mg/kg	ND	0.200	0.200	0.200	no	684	no	238	no	NA	NA	0.005	0.1	YES
2,4-Dichlorophenol	SW8270C	mg/kg	ND	0.400	0.400	0.400	no	2050	no	715	no	NA	NA	0.005	0.1	YES
2,4-Dimethylphenol	SW8270C	mg/kg	ND	0.300	0.300	0.300	no	13700	no	4760	no	NA	NA	0.005	0.1	YES
2,4-Dinitrophenol	SW8270C	mg/kg	ND	0.400	0.400	0.400	no	1370	no	476	no	NA	NA	0.005	0.1	YES
2-Chlorophenol	SW8270C	mg/kg	ND	0.200	0.200	0.200	no	5680	no	1550	no	NA	NA	0.005	0.1	YES
2-Methylphenol	SW8270C	mg/kg	ND	0.500	0.500	0.500	no	NA	NA	NA	NA	NA	NA	0.005	0.1	YES
2-Nitrophenol	SW8270C	mg/kg	ND	0.200	0.200	0.200	no	NA	NA	NA	NA	NA	NA	0.005	0.1	YES
3+4-Methylphenol	SW8270C	mg/kg	ND	0.200	0.200	0.200	no	NA	NA	NA	NA	NA	NA	0.005	0.1	YES
4,6-Dinitro-2-methylphenol	SW8270C	mg/kg	ND	0.500	0.500	0.500	no	68.4	no	23.8	no	NA	NA	0.005	0.1	YES
4-Chloro-3-methylphenol	SW8270C	mg/kg	ND	0.500	0.500	0.500	no	NA	NA	NA	NA	NA	NA	0.005	0.1	YES
4-Nitrophenol	SW8270C	mg/kg	ND	0.200	0.200	0.225	no	NA	NA	NA	NA	NA	NA	0.005	0.1	YES
Pentachlorophenol	SW8270C	mg/kg	ND	0.400	0.400	0.400	no	100	no	1030	no	NA	NA	0.005	0.1	YES
Phenol	SW8270C	mg/kg	ND	0.200	0.200	0.200	no	205000	no	68800	no	NA	NA	0.005	0.1	YES
1-Methylnaphthalene	SW8260B	mg/kg	ND	0.200	0.200	0.200	no	NA	NA	NA	NA	NA	NA	0.03	0.6	no
2-Methylnaphthalene	SW8270C	mg/kg	ND	0.200	0.200	0.200	no	NA	NA	NA	NA	NA	NA	0.03	0.6	no
Acenaphthene	SW8270C	mg/kg	ND	0.200	0.200	0.200	no	36700	no	18600	no	NA	NA	0.03	0.6	no
Acenaphthylene	SW8270C	mg/kg	ND	0.200	0.200	0.200	no	NA	NA	NA	NA	NA	NA	0.03	0.6	no
Anthracene	SW8270C	mg/kg	ND	0.200	0.200	0.200	no	183000	no	66800	no	NA	NA	0.03	0.6	no
Benzo(a)anthracene	SW8270C	mg/kg	ND	0.200	0.200	0.200	no	23.4	no	213	no	NA	NA	0.03	0.6	no
Benzo(a)pyrene	SW8270C	mg/kg	ND	0.200	0.200	0.200	no	2.34	no	21.3	no	NA	NA	0.0007	0.014	YES
Benzo(b)fluoranthene	SW8270C	mg/kg	ND	0.200	0.200	0.200	no	23.4	no	213	no	NA	NA	0.03	0.6	no
Benzo(g,h,i)perylene	SW8270C	mg/kg	ND	0.200	0.200	0.200	no	NA	NA	NA	NA	NA	NA	0.03	0.6	no
Benzo(k)fluoranthene	SW8270C	mg/kg	ND	0.200	0.200	0.200	no	234	no	2060	no	NA	NA	0.03	0.6	no
Chrysene	SW8270C	mg/kg	ND	0.200	0.200	0.200	no	2340	no	20600	no	NA	NA	0.03	0.6	no
Dibenz(a,h)anthracene	SW8270C	mg/kg	ND	0.200	0.200	0.200	no	2.34	no	21.3	no	NA	NA	0.03	0.6	no
Fluoranthene	SW8270C	mg/kg	ND	0.200	0.200	0.200	no	24400	no	8910	no	NA	NA	0.03	0.6	no
Fluorene	SW8270C	mg/kg	ND	0.200	0.200	0.200	no	24400	no	8910	no	NA	NA	0.03	0.6	no
Indeno(1,2,3-c,d)pyrene	SW8270C	mg/kg	ND	0.200	0.200	0.200	no	23.4	no	213	no	NA	NA	0.03	0.6	no
Naphthalene	SW8270C	mg/kg	ND	0.200	0.200	0.200	no	252	no	702	no	NA	NA	0.03	0.6	no
Phenanthrene	SW8270C	mg/kg	ND	0.200	0.200	0.200	no	20500	no	7150	no	NA	NA	0.03	0.6	no
Pyrene	SW8270C	mg/kg	ND	0.200	0.200	0.200	no	18300	no	6680	no	NA	NA	0.03	0.6	no
Cyanide	SW9012	mg/kg	ND	0.500	0.500	0.425	YES	22700	no	6190	no	NA	NA	0.2	4	no
Diesel Range Organics (DRO)	SW8015	mg/kg	210.000	10.000	210.000	10.000	YES	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline Range Organics (GRO)	SW8015	mg/kg	ND	5.000	5.000	5.000	no	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total BTEX	SW8260B	mg/kg	NA	NA	0.250	0.250	no	NA	NA	NA	NA	50	no	2.13	42.6	no
Petroleum Hydrocarbons, TR	E418.1	mg/kg	90.000	20.000	90.000	20.000	YES	NA	NA	NA	NA	2500	no	NA	NA	NA
DRO+GRO	SW8015	mg/kg	NA	NA	215.000	15.000	YES	NA	NA	NA	NA	500	no	NA	NA	NA

Notes

PQL = practical quantitation limit
ND = Not detected above the PQL
NA = Data not available
PCBs = polychlorinated biphenyls

Of the screening standards considered for comparison, the Proposed Background Value is the only standard with a value for DRO (10 mg/kg). However, Form C-137 has a screening value for DRO+GRO combined (500 mg/kg). While the NEOCD Closure sample DRO value (210 mg/kg) exceeds the Proposed Background DRO Value, the NEOCD Closure sample DRO+GRO combined value (215 mg/kg - including the detection limit for GRO) is well below the Form C-137 combined screening value.

For the NEOCD Closure Sample, the Value used for Screening Comparison equals the higher of the PQL and the result with the following exceptions:

- For Total BTEX, the sum of the values of the four individual analytes was utilized.
- For DRO+GRO, the sum of the values DRO and GRO were utilized.

Industrial/Occupational and Construction Worker Soil Screening Standards from the New Mexico Environment Department Soil Screening Standards C-137 Screening Standards from New Mexico Oil Conservation Form C-137 EZ.

NMAC 3103 Screening Standards from NMAC 20.6.2.3103 Subsections A and B (NMAC 3103 list).

OCD advised that the NMAC 3103 list water standards (presented in mg/l) with the exception of radioactivity could be multiplied by 20 to approximate soil standards (mg/kg).

The 20X approximation was also utilized for radioactivity even though the NMAC 3103 standard for radioactivity is presented in pCi/l.

PCB Proposed Background Value exceedances were caused by elevated PQLs in the NEOCD Closure sample due to sample dilution. PCBs were not detected in the NEOCD Closure sample.

**TABLE 1. PROPOSED BACKGROUND VALUES, OIL CONSERVATION DIVISION LANDFARMS
WESTERN REFINING SOUTHWEST, GALLUP REFINERY, GALLUP, NEW MEXICO**

Analyte	Analytic Method	Reporting Units	Sample ID "Background" Collected February 2010			Sample ID "BG-NE-033011" Collected March 2011			Sample ID "BG-W-033011" Collected March 2011			Sample ID "BG-S-033011" Collected March 2011			Proposed Background Value
			Result	PQL	Sample Background Value	Result	PQL	Sample Background Value	Result	PQL	Sample Background Value	Result	PQL	Sample Background Value	
Chloride	E300	mg/kg	ND	7.500	7.500	7.600	7.500	7.600	ND	7.500	7.500	ND	7.500	7.500	7.525
Fluoride	E300	mg/kg	3.300	1.500	3.300	4.300	1.500	4.300	2.400	1.500	2.400	1.800	1.500	1.800	2.950
Nitrogen, Nitrate (As N)	E300	mg/kg	2.200	1.500	2.200	ND	1.500	1.500	3.000	1.500	3.000	2.100	1.500	2.100	2.200
Sulfate	E300	mg/kg	18.000	7.500	18.000	42.000	7.500	42.000	15.000	7.500	15.000	11.000	7.500	11.000	21.500
Radium-226	E901.1	pCi/g	1.500	NA	1.500	1.290	NA	1.290	NA	NA	NA	NA	NA	NA	1.395
Radium-228	E901.1	pCi/g	1.100	NA	1.100	1.400	NA	1.400	NA	NA	NA	NA	NA	NA	1.250
Radium-226+Radium-228	E901.1	pCi/g	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.645
Arsenic	SW6010A	mg/kg	ND	13.000	13.000	ND	13.000	13.000	ND	13.000	13.000	ND	13.000	13.000	13.000
Barium	SW6010A	mg/kg	310.000	1.000	310.000	380.000	1.000	380.000	380.000	1.000	380.000	390.000	1.000	390.000	365.000
Cadmium	SW6010A	mg/kg	ND	0.500	0.500	ND	0.500	0.500	ND	0.500	0.500	ND	0.500	0.500	0.500
Chromium	SW6010A	mg/kg	8.000	1.500	8.000	17.000	1.500	17.000	16.000	1.500	16.000	9.800	1.500	9.800	12.700
Copper	SW6010A	mg/kg	4.000	1.500	4.000	4.200	1.500	4.200	1.700	1.500	1.700	1.900	1.500	1.900	2.950
Iron	SW6010A	mg/kg	NA	NA	NA	20000.000	500.000	20000.000	19000.000	500.000	19000.000	13000.000	500.000	13000.000	17333.333
Lead	SW6010A	mg/kg	NA	NA	NA	6.000	1.300	6.000	8.200	1.300	8.200	2.400	1.300	2.400	5.533
Manganese	SW6010A	mg/kg	NA	NA	NA	370.000	1.000	370.000	370.000	1.000	370.000	820.000	50.000	820.000	520.000
Selenium	SW6010A	mg/kg	ND	13.000	13.000	ND	13.000	13.000	ND	13.000	13.000	ND	13.000	13.000	13.000
Silver	SW6010A	mg/kg	ND	1.300	1.300	ND	1.300	1.300	ND	1.300	1.300	ND	1.300	1.300	1.300
Uranium	SW6010A	mg/kg	ND	25.000	25.000	ND	50.000	50.000	ND	50.000	50.000	ND	50.000	50.000	43.750
Zinc	SW6010A	mg/kg	NA	NA	NA	23.000	13.000	23.000	20.000	13.000	20.000	21.000	13.000	21.000	21.333
Mercury	SW7471	mg/kg	ND	0.033	0.033	ND	0.033	0.033	ND	0.033	0.033	ND	0.033	0.033	0.107
Aroclor 1016	SW8082	mg/kg	NA	NA	NA	ND	0.020	0.020	NA	NA	NA	NA	NA	NA	0.020
Aroclor 1221	SW8082	mg/kg	NA	NA	NA	ND	0.020	0.020	NA	NA	NA	NA	NA	NA	0.020
Aroclor 1232	SW8082	mg/kg	NA	NA	NA	ND	0.020	0.020	NA	NA	NA	NA	NA	NA	0.020
Aroclor 1242	SW8082	mg/kg	NA	NA	NA	ND	0.020	0.020	NA	NA	NA	NA	NA	NA	0.020
Aroclor 1248	SW8082	mg/kg	NA	NA	NA	ND	0.020	0.020	NA	NA	NA	NA	NA	NA	0.020
Aroclor 1254	SW8082	mg/kg	NA	NA	NA	ND	0.020	0.020	NA	NA	NA	NA	NA	NA	0.020
Aroclor 1260	SW8082	mg/kg	NA	NA	NA	ND	0.020	0.020	NA	NA	NA	NA	NA	NA	0.020
1,1,1-Trichloroethane	SW8260B	mg/kg	ND	0.050	0.050	ND	0.050	0.050	NA	NA	NA	NA	NA	NA	0.050
1,1,2-Trichloroethane	SW8260B	mg/kg	ND	0.050	0.050	ND	0.050	0.050	NA	NA	NA	NA	NA	NA	0.050
1,1-Dichloroethane	SW8260B	mg/kg	ND	0.100	0.100	ND	0.100	0.100	NA	NA	NA	NA	NA	NA	0.100
1,1-Dichloroethene	SW8260B	mg/kg	ND	0.050	0.050	ND	0.050	0.050	NA	NA	NA	NA	NA	NA	0.050
1,2-Dichloroethane	SW8260B	mg/kg	ND	0.050	0.050	ND	0.050	0.050	NA	NA	NA	NA	NA	NA	0.050
Benzene	SW8260B	mg/kg	ND	0.050	0.050	ND	0.050	0.050	NA	NA	NA	NA	NA	NA	0.050
Carbon tetrachloride	SW8260B	mg/kg	ND	0.100	0.100	ND	0.100	0.100	NA	NA	NA	NA	NA	NA	0.100
Chloroform	SW8260B	mg/kg	ND	0.050	0.050	ND	0.050	0.050	NA	NA	NA	NA	NA	NA	0.050
Dibromomethane	SW8260B	mg/kg	ND	0.100	0.100	ND	0.100	0.100	NA	NA	NA	NA	NA	NA	0.100
Ethylbenzene	SW8260B	mg/kg	ND	0.050	0.050	ND	0.050	0.050	NA	NA	NA	NA	NA	NA	0.050
Methylenechloride	SW8260B	mg/kg	ND	0.150	0.150	ND	0.150	0.150	NA	NA	NA	NA	NA	NA	0.150
Tetrachloroethene	SW8260B	mg/kg	ND	0.050	0.050	ND	0.050	0.050	NA	NA	NA	NA	NA	NA	0.050
Toluene	SW8260B	mg/kg	ND	0.050	0.050	ND	0.050	0.050	NA	NA	NA	NA	NA	NA	0.050
Trichloroethene	SW8260B	mg/kg	ND	0.050	0.050	ND	0.050	0.050	NA	NA	NA	NA	NA	NA	0.050
Vinyl chloride	SW8260B	mg/kg	ND	0.050	0.050	ND	0.050	0.050	NA	NA	NA	NA	NA	NA	0.050
Xylenes, Total	SW8260B	mg/kg	ND	0.100	0.100	ND	0.100	0.100	NA	NA	NA	NA	NA	NA	0.100

TABLE 1. PROPOSED BACKGROUND VALUES, OIL CONSERVATION DIVISION LANDFARMS
WESTERN REFINING SOUTHWEST, GALLUP REFINERY, GALLUP, NEW MEXICO

Analyte	Analytic Method	Reporting Units	Sample ID "Background" Collected February 2010			Sample ID "BG-NE-033011" Collected March 2011			Sample ID "BG-W-033011" Collect March 2011			Sample ID "BG-S-033011" Collected March 2011			Proposed Background Value
			Result	PQL	Sample Background Value	Result	PQL	Sample Background Value	Result	PQL	Sample Background Value	Result	PQL	Sample Background Value	
2,4,5-Trichlorophenol	SW8270C	mg/kg	ND	0.200	0.200	ND	0.200	0.200	NA	NA	NA	NA	NA	NA	0.200
2,4,6-Trichlorophenol	SW8270C	mg/kg	ND	0.200	0.200	ND	0.200	0.200	NA	NA	NA	NA	NA	NA	0.200
2,4-Dichlorophenol	SW8270C	mg/kg	ND	0.400	0.400	ND	0.400	0.400	NA	NA	NA	NA	NA	NA	0.400
2,4-Dimethylphenol	SW8270C	mg/kg	ND	0.300	0.300	ND	0.300	0.300	NA	NA	NA	NA	NA	NA	0.300
2,4-Dinitrophenol	SW8270C	mg/kg	ND	0.400	0.400	ND	0.400	0.400	NA	NA	NA	NA	NA	NA	0.400
2-Chlorophenol	SW8270C	mg/kg	ND	0.200	0.200	ND	0.200	0.200	NA	NA	NA	NA	NA	NA	0.200
2-Methylphenol	SW8270C	mg/kg	ND	0.500	0.500	ND	0.500	0.500	NA	NA	NA	NA	NA	NA	0.500
2-Nitrophenol	SW8270C	mg/kg	ND	0.200	0.200	ND	0.200	0.200	NA	NA	NA	NA	NA	NA	0.200
3+4-Methylphenol	SW8270C	mg/kg	ND	0.200	0.200	ND	0.200	0.200	NA	NA	NA	NA	NA	NA	0.200
4,6-Dinitro-2-methylphenol	SW8270C	mg/kg	ND	0.500	0.500	ND	0.500	0.500	NA	NA	NA	NA	NA	NA	0.500
4-Chloro-3-methylphenol	SW8270C	mg/kg	ND	0.500	0.500	ND	0.500	0.500	NA	NA	NA	NA	NA	NA	0.500
4-Nitrophenol	SW8270C	mg/kg	ND	0.200	0.200	ND	0.250	0.250	NA	NA	NA	NA	NA	NA	0.225
Pentachlorophenol	SW8270C	mg/kg	ND	0.400	0.400	ND	0.400	0.400	NA	NA	NA	NA	NA	NA	0.400
Phenol	SW8270C	mg/kg	ND	0.200	0.200	ND	0.200	0.200	NA	NA	NA	NA	NA	NA	0.200
1-Methylnaphthalene	SW8310/8260B	mg/kg	NA	NA	NA	ND	0.250	0.250	NA	NA	NA	NA	NA	NA	0.200*
2-Methylnaphthalene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.250	0.250	NA	NA	NA	NA	NA	NA	0.200*
Acenaphthene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.250	0.250	NA	NA	NA	NA	NA	NA	0.200*
Acenaphthylene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.250	0.250	NA	NA	NA	NA	NA	NA	0.200*
Anthracene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.015	0.015	NA	NA	NA	NA	NA	NA	0.200*
Benzo(a)anthracene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.010	0.010	NA	NA	NA	NA	NA	NA	0.200*
Benzo(a)pyrene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.010	0.010	NA	NA	NA	NA	NA	NA	0.200*
Benzo(b)fluoranthene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.010	0.010	NA	NA	NA	NA	NA	NA	0.200*
Benzo(g,h,i)perylene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.010	0.010	NA	NA	NA	NA	NA	NA	0.200*
Benzo(k)fluoranthene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.010	0.010	NA	NA	NA	NA	NA	NA	0.200*
Chrysene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.011	0.011	NA	NA	NA	NA	NA	NA	0.200*
Dibenz(a,h)anthracene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.010	0.010	NA	NA	NA	NA	NA	NA	0.200*
Fluoranthene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.020	0.020	NA	NA	NA	NA	NA	NA	0.200*
Fluorene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.030	0.030	NA	NA	NA	NA	NA	NA	0.200*
Indeno(1,2,3-c,d)pyrene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.100	0.100	NA	NA	NA	NA	NA	NA	0.200*
Naphthalene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.250	0.250	NA	NA	NA	NA	NA	NA	0.200*
Phenanthrene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.015	0.015	NA	NA	NA	NA	NA	NA	0.200*
Pyrene	SW8310/8270C	mg/kg	NA	NA	NA	ND	0.025	0.025	NA	NA	NA	NA	NA	NA	0.200*
Cyanide	SW9012	mg/kg	ND	0.500	0.500	ND	0.350	0.350	NA	NA	NA	NA	NA	NA	0.425
Diesel Range Organics (DRO)	SW8015	mg/kg	ND	10.000	10.000	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.000
Gasoline Range Organics (GRO)	SW8015	mg/kg	ND	5.000	5.000	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.000
Total BTEX	SW8260B	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.250
Petroleum Hydrocarbons, TR	E418.1	mg/kg	ND	20.000	20.000	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.000
DRO+GRO	SW8015	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.000

Notes:

PQL = practical quantitation limit

ND = Not detected above the PQL.

NA = Data not available.

PAHs = polycyclic aromatic hydrocarbons.

The "Proposed Background Values" shown above are the average of the data available from the four background samples with the exception mentioned below

The Proposed Background Value for Total BTEX = the sum of the Proposed Background Values for each of the four individual analytes.

The Proposed Background Value for DRO+GRO = the sum of the Proposed Background Values for DRO and GRO

The Proposed Background Value for Radium-226+Radium-228 = the sum of the Proposed Background Values for Radium-226 and Radium-228.

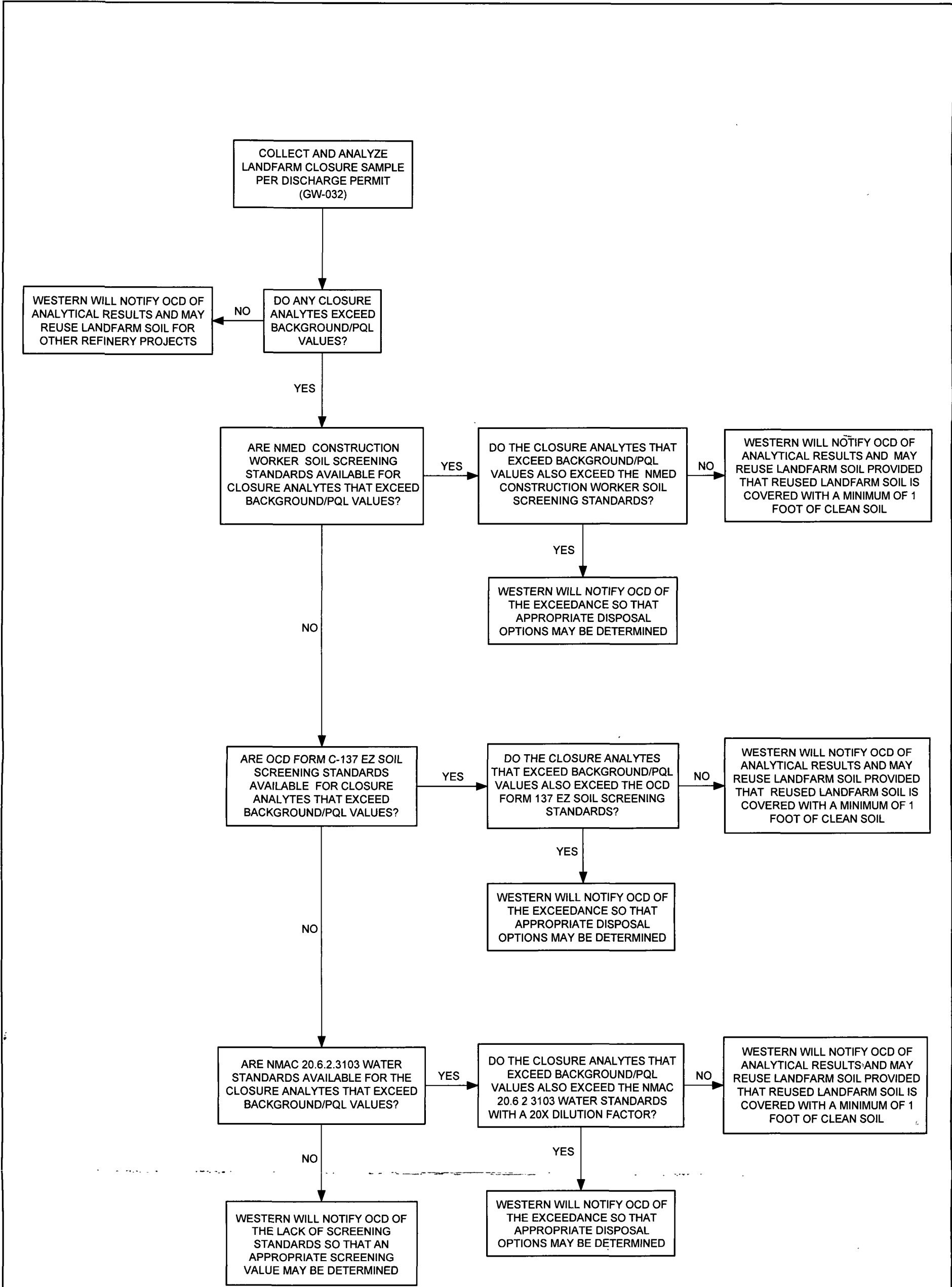
*PAHs were only analyzed for one of four background sample locations utilizing SIM analysis (SW8310).

A lower PQL is achieved utilizing SIM analysis than standard analysis (SW8270C).

Western intends to analyze future soil samples using the standard analysis.

Therefore, the SIM analysis PQLs would not be achievable

The PQLs utilized above for PAH Proposed Background Values are the PQLs provided from Hall Environmental for the standard analysis (SW8270C).



Chavez, Carl J, EMNRD

From: Riege, Ed [Ed.Riege@wnr.com]
Sent: Wednesday, July 13, 2011 3:01 PM
To: Chavez, Carl J, EMNRD
Cc: Grant Price
Subject: FW: Background Value and NE OCD Landfarm Closure Evaluation Tables
Attachments: BackgroundAndNELandfarm_TAB.PDF

Carl,
The Background Value and NE OCD Landfarm Closure Evaluation Tables are attached. We had discussed submitting a single table, but Grant thought this is too much data to go on one table.

So, the first table just shows our background data from the four individual background samples and the new proposed background values (which are the average of available data or the PQL if the analyte was not detected).

The second table takes the proposed background data from the first table and compares it with our NE OCD Landfarm closure sample, along with all of the other screening values that we've discussed.

Please take a look and let me know what you think. We will compose a flow chart to help communicate soil disposal options/criteria. For instance, the first box would say, "Does soil sample exceed background values" If no – "soil may be reused for any purpose" If yes – "does the soil exceed NMED soil screening levels" – If no "soil may be reused provided a 1-foot cap of clean soil is installed on top of reused soil" And so on. I think this may be helpful. We could put this together relatively quickly.

Ed

Ed Riege
Environmental Manager

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doi:10.1371/journal.pone.0019877.g002

Notes:
 NQL = practical quantitation limit
 ND = Not detected above the PQL
 C = Class available
 PAHs = polycyclic aromatic hydrocarbons

The "Proposed Background Values" shown above are the average of the data available from the four background samples with the exception mentioned below:
 The Proposed Background Value for Total BTEX = the sum of the Proposed Background Values for each of the four individual analytes
 The Proposed Background Value for DRO+GRO = the sum of the Proposed Background Values for DRO and GRO
 The Proposed Background Value for Radium-226+Radium-228 = the sum of the Proposed Background Values for Radium-226 and Radium-228
 *PAHs were only analyzed for one of four background sample locations utilizing SIM analysis (SWB210)
 A lower PQL was achieved utilizing SIM analysis than standard analysis (SWB270C)
 Western intends to analyze future soil samples using the standard analysis
 Therefore, the SIM analysis PQLs would not be achievable
 The PQLs listed above for PAH Proposed Background Values are the PQLs provided from Hal Environmental for the standard analysis (SWB270C)

Chavez, Carl J, EMNRD

From: Riege, Ed [Ed.Riege@wnr.com]
Sent: Friday, July 01, 2011 10:08 AM
To: Chavez, Carl J, EMNRD
Cc: Grant Price
Subject: FW: Gallup Refinery (GW-032) Temporary Landfarm Closure & Beneficial Reuse of Soils vs. Permitted Landfarm Remediation to greater of background/PQL

Hi Carl,
Grant helped me respond to your email questions below. After you have reviewed let me know when you want to have a call. We are available until 130 today or on Tuesday next week. Have a good fourth.

Thanks Ed

Ed Riege
Environmental Manager

Western Refining
Gallup Refinery
Route 3 Box 7
Gallup, NM 87301
(505) 722-0217
ed.riege@wnr.com

From OCD's latest email: Western appears to be attempting to apply the final background and/or PQL limit to both temporary and permitted land farms at the facility, which is not acceptable (see OCD clarification highlighted in yellow below) for the temporary landfill (NE Land Farm).

New Response: The following (in red) came from an email sent from Ed to Carl on 3/7/2011. The intent of this email was to summarize what was discussed on the phone between Trihydro/Western/OCD regarding background values and the Northeast Landfarm. OCD had stated that the background values would not apply to the NE Landfarm. However, if Western would attempt to excavate "hot spots" in the NE landfarm, resample at deeper depths, and show that the deeper sample results were consistent with the shallow sample results, OCD may reconsider the use of background values.

From above-referenced email:

Action items regarding the NE Landfarm:

As we discussed, Western would like to reuse soil in the NE Landfarm for Evaporation Pond berm repairs. However, OCD requires that the soil in the landfarm meet C-137 requirements and 20.6.2.3101 NMAC/20X dilution (3103) requirements prior to being used in such a manner. Based on the 11/2010 data, the landfarm does not meet 3103 requirements for some inorganics. Per our conversation, Western will attempt to excavate potential hot spots based on the 11/2010 data and will resample to see if C-137 and 3103 requirements are met. If they are met, Western will submit a Final Closure Report per form C-137. If they are not met, Western would like to evaluate whether or not the 3103 exceedances are due to naturally occurring background concentrations. If it appears that the exceedances are due to background concentrations, Western would like OCD to reconsider use of the soils for Evaporation Pond berm repair.

New Response:

The table below shows NE sample results for "problem analytes" in yellow. Note that these samples were collected from the same 4 locations at 1', 3' and 6' below ground surface. Note that the 6' sample is collected from native soil beneath the treated soil. Note that all sample results are relatively consistent. The grey cells are samples collected from other on-site locations. Note that they are relatively consistent with what was collected at the NE landfarm. This strongly suggests that these concentrations are naturally occurring. The red cells are OCD's proposed screening

standards. Note that, based on the data shown below, these standards are not obtainable as they are well below naturally occurring concentrations.

Sample	barium	chromium	iron	lead	mangane
NE Landfarm Composite (1' bgs) (11/2010)	300	15	16000	8.4	460
NE Landfarm #1 (3' bgs) (3/2011)	290	11	16000	5.8	400
NE Landfarm #2 (3' bgs) (3/2011)	350	13	20000	7.1	480
NE Landfarm #3 (3' bgs) (3/2011)	400	14	17000	6.7	410
NE Landfarm #4 (3' bgs) (3/2011)	440	14	18000	6.3	540
NE 5-year averages (6' bgs) (11/2010)	303	14	15250	6	393
Central 5-year averages (6' bgs) (11/2010)	300	17	15500	6	375
LTU 12/2009 (ZOI/TZ averages)	384	103	NA	31.1	NA
1997 LTU background data (averages)	258	12	NA	8	NA
Original Background Sample (2/2010)	310	8	NA	NA	NA
New Proposed Background	390	17	20000	8.2	820
NMAC 3103 list X-20	20	1	20	1	4
Form C-137	NA	NA	NA	NA	NA

From OCD's latest email: Western did not document how each parameter PQL was derived for Table 1, which is of concern because TCLP or mg/L or ug/L values must be corrected to soil units in mg/kg. Furthermore, Table 1 "Notes" state PQLs will be used as the background for VOCs, SVOCs and PAHs. How would PQLs be calculated from mg/L or ug/L to mg/kg or ug/kg?

New Response: PQLs are determined by the laboratory based upon method requirements, instrument capabilities, and laboratory capabilities. The PQLs provided on Table 1 were calculated by Hall Environmental since Hall conducts the OCD Landfarm analyses. Generally speaking, soils are not analyzed using TCLP (Method 1311) for this site. This was only done in March 2011 per OCD's suggestion so that the data could be more directly compared to the NMAC 3103 list water standards. However, in the future, Western will likely continue to use the analytical methods required by the Permit (not TCLP). Therefore, conversion of the PQL will not be needed. The PQLs provided by Hall in the analytical laboratory reports in mg/kg should suffice. These are what was utilized in Table 1. Should a NMAC 3103 with a 20X dilution factor comparison be needed, Western will simply multiply the NMAC standard by 20.

From OCD's latest email: The organic parameters in the table must be evaluated for background/PQL.

New Response: Organic parameters were not detected in the background samples. Therefore, per the Permit, the background concentration will be equal to the PQL. PQLs for organic parameters are provided in Appendix C of the background data submittal. Western can create a table showing these values if OCD would prefer.

From OCD's latest email: The table was also absent the following parameters: Aluminum, Boron, Cobalt, Molybdenum, and Nickel.

New Response: The most comprehensive list of analytes required by the Permit (utilized for Vadose Zone 5-year monitoring, release response monitoring, and closure monitoring) is Subsections A & B of the 20.6.2.3101 NMAC list. The constituents that OCD references above are included in Subsection C of the NMAC list. Western has occasionally used the generic term "NMAC 3101" to refer to Subsections A & B of the 20.6.2.3101 NMAC list as this is the portion of the list applicable to the Permit. Since the permit does not require analysis of Subsection C, Western did not believe it was appropriate to determine background concentrations for these analytes.

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Tuesday, June 28, 2011 11:49 AM

To: Riege, Ed

Subject: Gallup Refinery (GW-032) Temporary Landfarm Closure & Beneficial Reuse of Soils vs. Permitted Landfarm Remediation to greater of background/PQL

Ed:

Good morning. I have completed a review of Western's proposed background soil limits.

Western appears to be attempting to apply the final background and/or PQL limit to both temporary and permitted land farms at the facility, which is not acceptable (see OCD clarification highlighted in yellow below) for the temporary landfill (NE Land Farm).

The OCD notices that Western went a step further (may be ok) than prior sampling discussions and conducted a 3rd 5-point composite to compare with the selection of the highest concentration per parameter from the 3 samples collected to compare against the PQL. In addition, Western did not document how each parameter PQL was derived for Table 1, which is of concern because TCLP or mg/L or ug/L values must be corrected to soil units in mg/kg. Furthermore, Table 1 "Notes" state PQLs will be used as the background for VOCs, SVOCs and PAHs. How would PQLs be calculated from mg/L or ug/L to mg/kg or ug/kg? The organic parameters in the table must be evaluated for background/PQL. The table was also absent the following parameters: Aluminum, Boron, Cobalt, Molybdenum, and Nickel.

Why don't we discuss this further in a telephone call and see if we can't get on the same page for the temporary landfarm closure and beneficial soil reuse and the permitted landfarm establishment of cleanup under the discharge permit (greater of background and/or PQL).

Thank you.

Background Correspondence:

Hi Carl,

To answer the question in your second paragraph, yes, the background concentration should be the greater of the result value and/or the PQL in the Hall Environmental Analysis Lab QA/QC data report. Actually, it should probably be the greater of the result or the detection limit. But, Hall uses the PQL for the detection limit, so in this case, what you stated is correct.

Ed

Ed Riege
Environmental Manager

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(505) 722-0217
ed.riege@wnr.com

From: Chavez, Carl J, EMNRD [<mailto:CarlJ.Chavez@state.nm.us>]

Sent: Thursday, February 24, 2011 9:10 AM

To: Riege, Ed

Cc: Grant Price

Subject: RE: Land Farms - 1002391 Background Soil Samples

Ed:

Good morning. I keep getting side tracked on my review of your 2/4/2011 letter..... I've reviewed the attached soil background concentrations. I can see that the locations of the samples were not exactly as OCD had expected; however, they should suffice for the background of the landfarms in the current discharge permit at the refinery.

The question I now have for you is that background should be the greater of the result value and or PQL in the Hall Environmental Analysis Laboratory QA/QC data report right? Respond to this question and if you state yes, Western should finalize the background parameters with a submittal (on or before March 24, 2011) to the OCD which should reflect the above for the official landfarms at the facility.

Now for the temporary landfarms, OCD is evaluating the analytical using the § 20.6.2.3103 NMAC with a 20x dilution due to GW Standards. If you have any questions about this please contact me. The use of RCRA and/or NMED screening limits are not considered acceptable to the OCD for background. The OCD will also use the Form C-137 criteria to meet the technical standards of our most current regulations and limits.

Please call to communicate or respond to this message to establish documentation of the above conditions. I will continue to work on a response to your 2/4/2011 letter.

Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/ocd/index.htm>

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From: Riege, Ed [<mailto:Ed.Riege@wnr.com>]
Sent: Wednesday, March 30, 2011 1:24 PM
To: Chavez, Carl J, EMNRD
Subject: FW: Email for Carl re: OCD landfarms/background

Carl,

See email below regarding your email you just sent regarding the 3/24/11 date.

Ed

Ed Riege
Environmental Manager

Western Refining
Gallup Refinery
Route 3 Box 7
Gallup, NM 87301
(505) 722-0217
ed.riege@wnr.com

From: Riege, Ed
Sent: Monday, March 07, 2011 10:51 AM
To: Chavez, Carl J, EMNRD
Cc: Grant Price
Subject: FW: Email for Carl re: OCD landfarms/background

Hi Carl,

I'm sending this email to follow up with our conversation on 3/4/2011. For clarification, as you requested: The Northeast Landfarm is the refinery's only temporary OCD landfarm. The refinery wishes to close this landfarm prior to the expiration of the current Discharge Permit (August 1, 2011). The Central Landfarm is the refinery's only permanent OCD landfarm. This landfarm is currently at capacity and the refinery would like to eventually remove/reuse the soil that is currently in this landfarm so that the landfarm may be used to treat new soil.

Below are a list of action items/paths forward that we discussed. If you feel that any of these do not accurately convey what we discussed, please let me know so we can clarify.

Action items regarding additional background sampling:

After realizing that the unofficial 2/17/2010 background data set does not include all of the 20.6.2.3101 NMAC analytes, Western proposed to collect additional background data in an email on 3/4/2011. Western proposed to submit an additional background sampling plan to OCD by 3/24/2011. Per our conversation on 3/4/2011, OCD would like Western to collect additional background samples from the same general location of the original samples using the same procedures that were used to collect the original samples. OCD would like Western to analyze the sample for all analytes that are on the 20.6.2.3101 NMAC list that were not analyzed with the original data set. Due to the simplicity of this approach, Western does not think that an additional sampling plan is warranted, and therefore does not plan to submit another correspondence regarding this issue prior to 3/24/2011. Please let me know if you disagree. Western would like to propose one small variation from what was discussed. Instead of analyzing for all constituents that are on the 20.6.2.3101 NMAC list that were not analyzed with the original data set, Western proposes to reanalyze the entire 20.6.2.3101 list. The additional data would help supplement the existing data set and verify that there have been no temporal changes. The sample would be a single 5-point composite collected from the same general area that the original samples were collected.

Action items regarding the NE Landfarm:

As we discussed, Western would like to reuse soil in the NE Landfarm for Evaporation Pond berm repairs. However, OCD requires that the soil in the landfarm meet C-137 requirements and 20.6.2.3101 NMAC/20X dilution (3103) requirements prior to being used in such a manner. Based on the 11/2010 data, the landfarm does not meet 3103 requirements for some inorganics. Per our conversation, Western will attempt to excavate potential hot spots based on the 11/2010 data and will resample to see if C-137 and 3103 requirements are met. If they are met, Western will submit a Final Closure Report per form C-137. If they are not met, Western would like to evaluate whether or not the 3103

exceedances are due to naturally occurring background concentrations. If it appears that the exceedances are due to background concentrations, Western would like OCD to reconsider use of the soils for Evaporation Pond berm repair.

Action items regarding the Central Landfarm:

Per the current discharge permit, for soils to be removed from the Central landfarm, they must meet closure standards. Per our conversation on 3/4/2011, OCD utilizes the C-137 requirements in conjunction with the higher of background/3103. However, OCD said that the refinery may collect additional samples and analyze them for TCLP instead of using the 3103 20X dilution rule. This could allow for a more accurate comparison with the 3103 standards. Western would like to take this approach to verify the current exceedances. Also, the collection of additional background data may change the evaluation of the current data. Western would like to wait until additional background data and TCLP data are obtained prior to determining the appropriate path forward.

Thanks,
Ed

Ed Riege
Environmental Manager

Western Refining
Gallup Refinery
Route 3 Box 7
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(505) 722-0217
ed.riege@wnr.com

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, June 28, 2011 11:49 AM
To: 'Riege, Ed'
Subject: Gallup Refinery (GW-032) Temporary Landfarm Closure & Beneficial Reuse of Soils vs. Permitted Landfarm Remediation to greater of background/PQL

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From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Thursday, February 24, 2011 9:10 AM
To: Riege, Ed
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Subject: RE: Land Farms - 1002391 Background Soil Samples

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Thank you.

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Ed

Ed Riege
Environmental Manager

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Route 3 Box 7
Gallup, NM 87301
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RECEIVED OCE

2011 MAY 18 A 11: 4

May 17, 2011

Mr. Carl J. Chavez
Environmental Engineer
New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Proposed Background Soil Concentrations, Oil Conservation Division Landfarms,
Western Refining Company Southwest, Inc., Gallup Refinery, Gallup, New Mexico

Dear Mr. Chavez:

Western Refining Company's Gallup Refinery (Gallup) is submitting this correspondence to present the proposed background soil concentrations for Gallup's Oil Conservation Division (OCD) landfarms. Gallup's OCD Discharge Permit GW-032 (Discharge Permit) allows for comparison to background soil concentrations if they are higher than applicable soil screening standards. To date, OCD background soil concentrations for Gallup's OCD landfarms have not been established. During 2009, Gallup worked with OCD to determine an appropriate background sampling approach. Based on this approach, a five-point composite soil sample was collected on February 17, 2010, from approximately 6 to 12 inches below ground surface at locations illustrated on Figure 1. This data was submitted to OCD for approval via email on February 22, 2011. In an email dated February 24, 2011, OCD agreed that the sample locations should suffice for the landfarms listed in the Discharge Permit. Additionally, OCD suggested that background values should be the greater of the detected concentration or the Practical Quantitation Limit (PQL) listed in the laboratory analytical report. OCD requested that Gallup finalize the background values and submit them to OCD by March 24, 2011.

Gallup intended to submit finalized background values by March 24, 2011, as requested. However, subsequently, it was discovered that certain analytes requiring analysis per the Discharge Permit are not included in the February 17, 2010 background data set. Therefore, Gallup requested that an additional background sample be collected and incorporated into the finalized background values. In an email to OCD dated March 7, 2011, Gallup proposed procedures for collecting the additional background sample. In summary, the sample would be collected from the same location as the February 17, 2010 sample utilizing the same procedures. The sample would be analyzed for the analytes listed in Subsections A and B of 20.6.2.3103 NMAC (NMAC 3101 list). OCD approved this approach in an email dated March 8, 2011.

The above-referenced additional background sample (sample ID "BG-NE-033011") was collected by Trihydro Corporation (Trihydro) on March 30, 2011 and analyzed for the NMAC 3103 list. To verify

that the background data set is representative of the entire site, two additional samples were collected on the same date (BG-W-033011 and BG-S-033011). These additional samples were collected in areas that have not been impacted by refinery operations, and were collected utilizing the same procedures described above. Soil destined for Gallup's OCD Landfarms may potentially come from anywhere on refinery property. Therefore, Gallup believes it is appropriate to include data obtained from Samples BG-W-033011 and BG-S-033011 in the background soil concentration evaluation as these soils may be representative of soil treated at Gallup's OCD Landfarms. Locations of the three March 2011 background soil samples are illustrated on Figure 2. The samples were hand-delivered to Hall Environmental Analysis Laboratory of Albuquerque, New Mexico on March 31, 2011. Trihydro conducted a Tier II data validation on the March 2011 data set, and no data were rejected as a result of the data validation. The data validation is provided as Attachment A. Soil sampling logs prepared by field personnel are provided as Attachment B. Hall's analytical reports of the February 2010 data set and the March 2011 data set are provided as Attachment C.

The proposed background data are summarized in Table 1. If an analyte was not detected, the PQL is utilized as the background value. The highest concentration of the available data for each analyte is utilized as the Proposed Background Value.

Pending OCD approval of this correspondence, Gallup intends to utilize the Proposed Background Values included in this correspondence and the NMAC 3103 list with a 20X dilution factor for comparison with Gallup's OCD landfarm soil samples. The Proposed Background Values may also be used for other OCD-related evaluations, as applicable. If you have any questions or comments, please do not hesitate to call us at (505) 722-0217.

Sincerely,
Western Refining Company



Ed Riege
Environmental Manager

697-039-002

Attachments

cc: C. Johnson, Western Refining
G. Price, Trihydro Corporation
K. Van Horn, NMED

**TABLE 1. OIL CONSERVATION DIVISION LANDFARM PROPOSED BACKGROUND VALUES
WESTERN REFINING SOUTHWEST, GALLUP REFINERY, GALLUP, NEW MEXICO**

Analyte	Analytic Method	Reporting Units	Sample ID "Background" Collected February 2010			Sample ID "BG-NE-033011" Collected March 2011			Sample ID "BG-W-033011" Collect March 2011			Sample ID "BG-S-033011" Collected March 2011			Proposed Background Value
			Result	PQL	Sample Background Value	Result	PQL	Sample Background Value	Result	PQL	Sample Background Value	Result	PQL	Sample Background Value	
Chloride	E300	mg/kg	ND	7.500	7.500	7.600	7.500	7.600	ND	7.500	7.500	ND	7.500	7.500	7.600
Fluoride	E300	mg/kg	3.300	1.500	3.300	4.300	1.500	4.300	2.400	1.500	2.400	1.800	1.500	1.800	4.300
Nitrogen, Nitrate (As N)	E300	mg/kg	2.200	1.500	2.200	ND	1.500	1.500	3.000	1.500	3.000	2.100	1.500	2.100	3.000
Sulfate	E300	mg/kg	18.000	7.500	18.000	42.000	7.500	42.000	15.000	7.500	15.000	11.000	7.500	11.000	42.000
1,2-Dibromoethane	E504.1	µg/Kg	ND	0.100	0.100	ND	0.100	0.100	NA	NA	NA	NA	NA	NA	0.100
Radium-226	E901.1	pCi/g	1.500	NA	1.500	1.290	0.034	1.290	NA	NA	NA	NA	NA	NA	1.500
Radium-226 ±	E901.1	pCi/g	0.200	NA	0.200	0.182	0.000	0.182	NA	NA	NA	NA	NA	NA	0.200
Radium-228	E901.1	pCi/g	1.100	NA	1.100	1.400	0.058	1.400	NA	NA	NA	NA	NA	NA	1.400
Radium-228 ±	E901.1	pCi/g	0.400	NA	0.400	0.262	0.000	0.262	NA	NA	NA	NA	NA	NA	0.400
Arsenic	SW6010A	mg/kg	ND	13.000	13.000	ND	13.000	13.000	ND	13.000	13.000	ND	13.000	13.000	13.000
Barium	SW6010A	mg/kg	310.000	1.000	310.000	380.000	1.000	380.000	380.000	1.000	380.000	390.000	1.000	390.000	390.000
Cadmium	SW6010A	mg/kg	ND	0.500	0.500	ND	0.500	0.500	ND	0.500	0.500	ND	0.500	0.500	0.500
Chromium	SW6010A	mg/kg	8.000	1.500	8.000	17.000	1.500	17.000	16.000	1.500	16.000	9.800	1.500	9.800	17.000
Copper	SW6010A	mg/kg	4.000	1.500	4.000	4.200	1.500	4.200	1.700	1.500	1.700	1.900	1.500	1.900	4.200
Iron	SW6010A	mg/kg	NA	NA	NA	20000.000	500.000	20000.000	19000.000	500.000	19000.000	13000.000	500.000	13000.000	20000.000
Lead	SW6010A	mg/kg	NA	NA	NA	6.000	1.300	6.000	8.200	1.300	8.200	2.400	1.300	2.400	8.200
Manganese	SW6010A	mg/kg	NA	NA	NA	370.000	1.000	370.000	370.000	1.000	370.000	820.000	50.000	820.000	820.000
Selenium	SW6010A	mg/kg	ND	13.000	13.000	ND	13.000	13.000	ND	13.000	13.000	ND	13.000	13.000	13.000
Silver	SW6010A	mg/kg	ND	1.300	1.300	ND	1.300	1.300	ND	1.300	1.300	ND	1.300	1.300	1.300
Uranium	SW6010A	mg/kg	ND	25.000	25.000	ND	50.000	50.000	ND	50.000	50.000	ND	50.000	50.000	50.000
Zinc	SW6010A	mg/kg	NA	NA	NA	23.000	13.000	23.000	20.000	13.000	20.000	21.000	13.000	21.000	23.000
Mercury	SW7471	mg/kg	ND	0.330	0.330	ND	0.033	0.033	ND	0.033	0.033	ND	0.033	0.033	0.330
All PCBs	SW8082	mg/kg	NA	NA	NA	ND	0.020	0.020	NA	NA	NA	NA	NA	NA	0.020
All VOCs ¹	SW8260B	mg/kg	ND	Varies	Varies	ND	Varies	Varies	NA	NA	NA	NA	NA	NA	PQL
All SVOCs ²	SW8270C	mg/kg	ND	Varies	Varies	ND	Varies	Varies	NA	NA	NA	NA	NA	NA	PQL
All PAHs ³	SW8310	mg/kg	NA	NA	NA	ND	Varies	Varies	NA	NA	NA	NA	NA	NA	PQL
Cyanide	SW9012	mg/kg	ND	0.500	0.500	ND	0.350	0.350	NA	NA	NA	NA	NA	NA	0.500

Notes:

PQL = practical quantitation limit

ND = Not detected above the PQL.

NA = Data not available.

PCBs = polychlorinated biphenyls

VOCs = volatile organic compounds

SVOCs = semi-volatile organic compounds

PAHs = polycyclic aromatic hydrocarbons

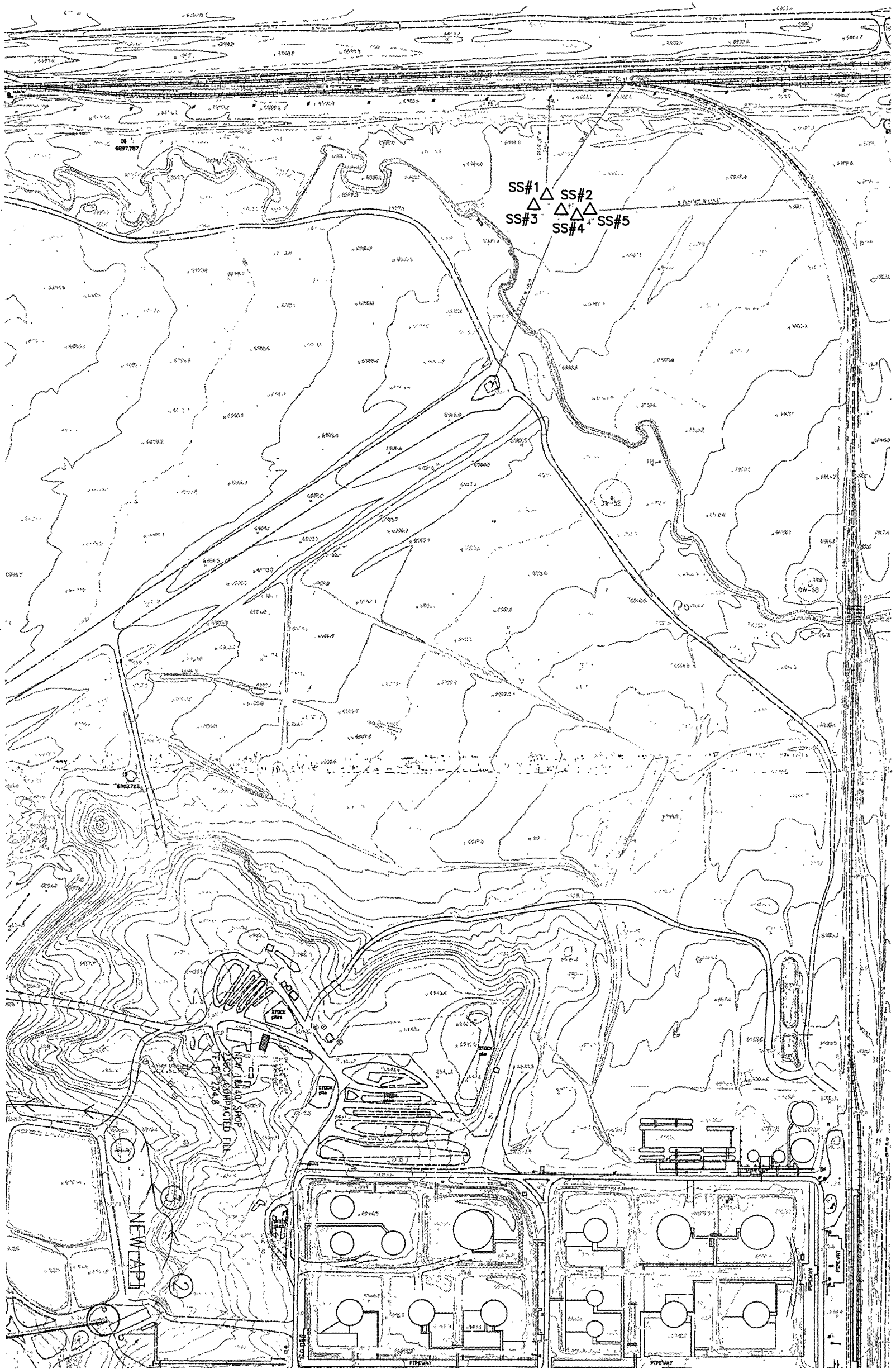
¹ VOCs have analyte-specific PQLs; the PQL of each individual analyte will be utilized as the background value.

² SVOCs have analyte-specific PQLs; the PQL of each individual analyte will be utilized as the background value.

³ PAHs have analyte-specific PQLs; the PQL of each individual analyte will be utilized as the background value.

TABLE

FIGURES



Base map: Western Refining Company, February 23, 2010.

EXPLANATION

△ SS#3 BACKGROUND SOIL SAMPLE LOCATION AND DESIGNATION

NOTE:

SS#1 THROUGH SS#5 WERE COMPOSITED AND SUBMITTED TO HALL ENVIRONMENTAL LABORATORIES AS SAMPLE ID. "BACKGROUND".

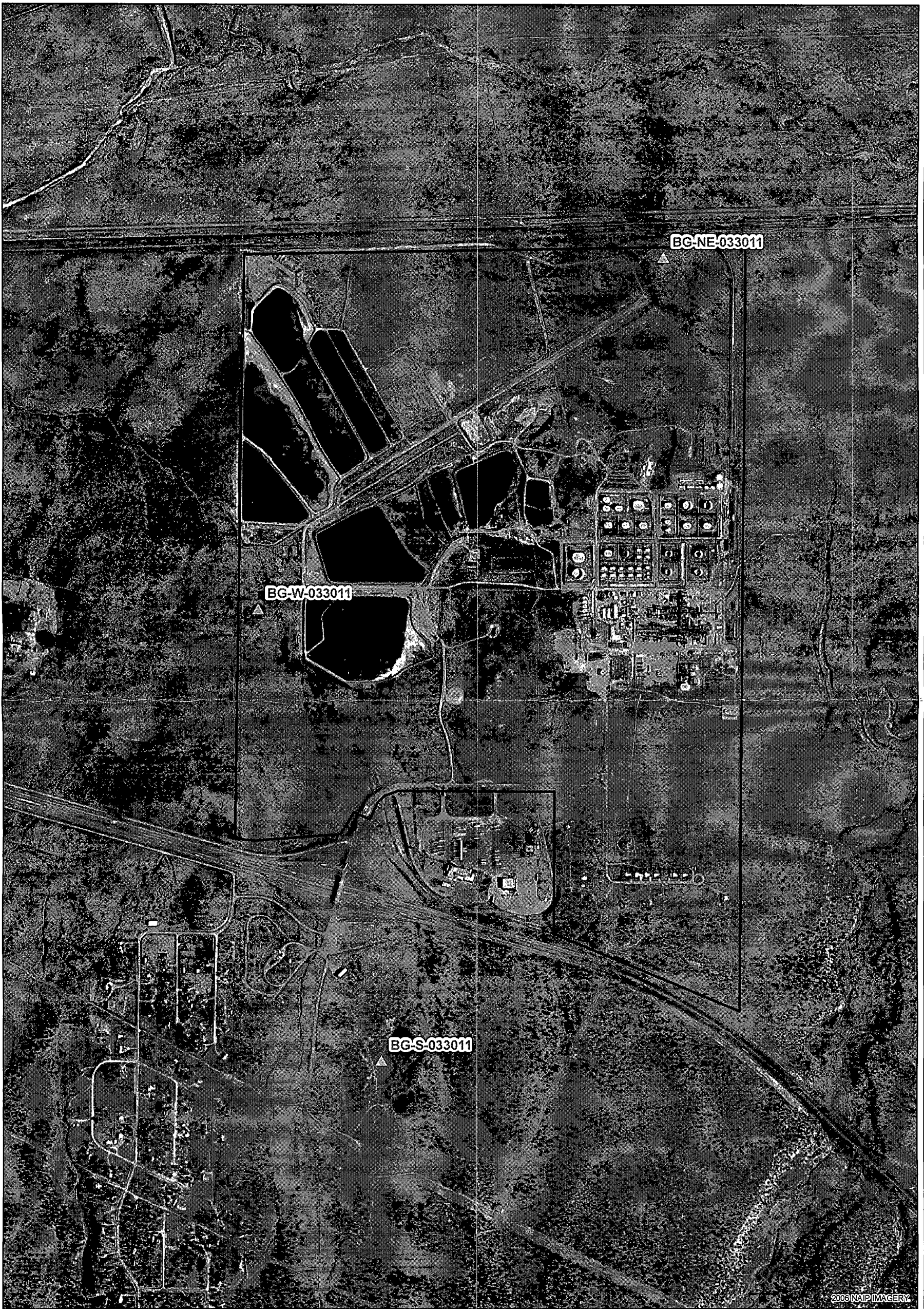


FIGURE 1

OCD BACKGROUND SOIL SAMPLE LOCATIONS
(FEBRUARY 2010)

WESTERN REFINING COMPANY L.L.C.
GALLUP REFINERY
GALLUP, NEW MEXICO

Drawn By: REP Checked By: GP Scale: NONE Date: 5/12/11 File: 697-OCD-PDF-201105

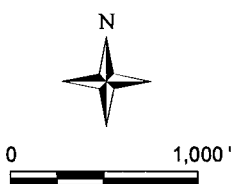


EXPLANATION

- BG-S-033011

BACKGROUND SOIL SAMPLE LOCATION AND DESIGNATION
- PROPERTY BOUNDARY

NOTE: A 5-POINT COMPOSITE SAMPLE WAS COLLECTED WITHIN A 100-FOOT AREA AT EACH SAMPLE LOCATION SHOWN ON THE MAP ABOVE.



Trihydro

CORPORATION

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Laramie, WY 82070

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FIGURE 2

OCD BACKGROUND SOIL SAMPLE LOCATIONS
(MARCH 2011)

WESTERN REFINING COMPANY L.L.C.
GALLUP REFINERY
GALLUP, NEW MEXICO

Drawn By: BR	Checked By: GP	Scale: 1" = 1000'	Date: 5/13/11	File: Gallup_OCD_Samples_20110513.mxd
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ATTACHMENT A
TIER II DATA VALIDATION



Tier II Data Validation Report Summary

Client: Western Refining Southwest, Gallup	Laboratory: Hall Environmental Analysis Laboratory, Anatek Labs, Inc. and Pace Analytical
Project Name: Gallup OCD Landfarms	Sample Matrix: Soil and Water
Project Number: 697-039-002	Sample Start Date: March 30, 2011
Date Validated: May 5, 2011	Sample End Date: March 31, 2011
Parameters Included: <u>Hall Environmental Analysis Laboratory:</u> 1,2-Dibromoethane (EDB) by Environmental Protection Agency (EPA) Method 8011 and/or 504.1 Modified, Polychlorinated Biphenyls (PCB) by EPA Method 8082, Polyaromatic Hydrocarbons (PAH) by EPA Method 8310, Anions by EPA Method 300.0, Mercury by EPA Method 7471, Soil Metals by EPA Method 6010B, Aqueous Metals by EPA Method 200.7, Semi-Volatile Organic Compounds (SVOC) by EPA Method 8270C, Volatile Organic Compounds (VOC) by EPA Methods 8260B and 8021B, pH by Standard Method (SM) 4500-H+B, Total Phenolics by Method 420.3, Total Dissolved Solids (TDS) by SM2540C, Diesel Range Organics (DRO) by EPA Method 8015B, Gasoline Range Organics (GRO) by EPA Method 8015B, <u>Anatek Labs, Inc.:</u> Cyanide by EPA Method 335.4 and Percent Moisture <u>Pace Analytical:</u> Radium-226 and Radium-228 by EPA Method 901.1m (Soil), 903.1 (Aqueous), and 904.0 (Aqueous)	
Laboratory Project ID: 1104008	
Data Validator: Jessica Swanson, Environmental Chemist	

DATA EVALUATION CRITERIA SUMMARY

A Tier II Data Validation was performed by Trihydro Corporation's Chemical Data Evaluation Services group on the analytical data report package generated by Hall Environmental Analysis Laboratory of Albuquerque, NM with subcontracted analyses performed by Anatek Labs, Inc. of Moscow, ID and Pace Analytical of Greensburg, PA, evaluating samples from the Western Refining OCD Landfarms located in Gallup, NM.

Precision, accuracy, method compliance, and completeness of this data package were assessed during this data review. Precision was determined by evaluating the calculated relative percent difference (RPD) values of samples from field duplicate pairs and laboratory duplicate pairs. Laboratory accuracy was established by reviewing the demonstrated percent recoveries of matrix spike (MS) and matrix spike duplicate (MSD) samples, and of laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) to verify that data are not biased. Additionally, field accuracy was established by collecting field, trip, and equipment blanks to monitor for possible ambient or cross contamination during sampling. Method compliance was established by reviewing holding times, detection limits, surrogate recoveries, method blanks, and the LCS and LCSD percent recoveries against method-specific requirements. Completeness was evaluated by determining the overall ratio of the number of samples planned versus the number of samples with valid analyses. Determination of completeness included a review of the chain-of-custody (CoC), laboratory analytical methods, and other necessary documents associated with this analytical data set.

Data were evaluated in general accordance with validation criteria set forth in the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review, document number USEPA-540-R-08-01, June 2008 with additional reference to the USEPA CLP National Functional Guidelines for Organic Data Review, document number EPA 540/R-99-008, October 1999 and the USEPA CLP National Functional Guidelines for Inorganic Superfund Data Review, document number EPA 540R-10-011, January 2010. Review of duplicates is conducted in accordance with USEPA Region 1 Laboratory Data Validation Functional Guidelines for Evaluation of Organic Analysis, December 1996.





Tier II Data Validation Report Summary

SAMPLE NUMBERS TABLE

Client Sample ID	Laboratory Sample Number
Hall Environmental Analysis Laboratory	
BG-NE-033011	1104008-01
BG-W-033011	1104008-02
BG-S-033011	1104008-03
CentralOCD-Close-033011	1104008-04
NEOCD-Close-033011	1104008-05
EB-033011	1104008-06
FB-033-11	1104008-07
Central OCD-01-033111	1104008-08
Central OCD-02-033111	1104008-09
Central OCD-03-033111	1104008-10
Central OCD-04-033111	1104008-11
NE OCD-01-033111	1104008-12
NE OCD-02-033111	1104008-13
NE OCD-03-033111	1104008-14
NE OCD-04-033111	1104008-15
Trip Blank	1104008-16
BD-02-033111	1104008-17
BD-01-033111	1104008-18
Anatek Labs, Inc	
BG-NE-033011	110405030-001
CentralOCD-Close-033011	110414047-001
Pace Analytical	
BG-NE-033011	3044432001
Central OCD-01-033111	3044432002
Central OCD-02-033111	3044432003
Central OCD-03-033111	3044432004
Central OCD-04-033111	3044432005
NE OCD-01-033111	3044432006
NE OCD-02-033111	3044432007
NE OCD-03-033111	3044432008
NE OCD-04-033111	3044432009
BD-02-033111	3044432010
BD-01-033111	3044432011
CentralOCD-Close-033011	3044907001
NEOCD-Close-033011	3044907002





Tier II Data Validation Report

The samples were analyzed for the required analytes. Assessment of CoC completeness is included in Section #3. The laboratory data were reviewed to evaluate compliance with the required methods and the quality of the reported data. A leading check mark (✓) indicates that the referenced validation criteria were deemed acceptable. A preceding crossed circle (⊗) indicates validation criteria for which the data may have been qualified by the data validator. Details are noted in the tables below.

Validation Criteria

- ✓ Data Completeness
- ✓ CoC Documentation
- ⊗ Holding Times and Preservation
- ✓ Laboratory Blanks
- ✓ System Monitoring Compounds (i.e., Surrogates)
- ⊗ Laboratory Control Samples/Laboratory Control Sample Duplicates (LCS/LCSD)
- ⊗ Matrix Spike/Matrix Spike Duplicates (MS/MSD)
- ⊗ Field Duplicates
- ✓ Field, Equipment, and Trip Blanks

OVERALL DATA PACKAGE ASSESSMENT

Based on a data validation review, the data are acceptable as delivered. Data qualified by the laboratory are discussed in Section #2.

The purpose of validating data and assigning qualifiers is to assist in proper data interpretation. Data which are not qualified meet the site data quality objectives. If values are assigned qualifiers other than an R (rejected, data not usable), the data may be used for site evaluation, with the reasons for qualification being given consideration when interpreting sample concentrations. Data points which are assigned an R qualifier should not be used for site evaluation purposes. Text identified in **bold font** indicates that further action and/or qualification of the data were required. Data validation qualifiers were added for the items noted with crossed circles, above. Please see the Data Qualification Summary table at the end of this report for a complete list of samples and analytes qualified.

Data qualifiers used during this validation included:

- J – Estimated concentration
- UJ – Estimated reporting limit

Data Completeness

The analyses were performed as requested on the CoC records. The associated samples were received by the laboratory and appeared to be analyzed properly. No data points were rejected. The data completeness measure for this data package is 100% and is acceptable.



VALIDATION CRITERIA CHECKLIST	
1. Was the report free of non-conformances related to the analytical data identified by the laboratory?	Yes
Comments: The report was free of non-conformances related to the analytical data as identified by the laboratory.	
2. Were data qualification flags or other notes used by the laboratory? If yes, define.	Yes
Comments: The following data qualification flags and notes were used by the laboratory S – Spike recovery outside accepted recovery limits. * – Value exceeds Maximum Contaminant Level H – Holding times for preparation or analysis exceeded.	
3. Were sample CoC forms complete?	Yes
Comments: The CoC form was complete from the field to the laboratory. Custody was maintained with proper signatures, times, and dates of receipt and between laboratories where sub-contracted work was performed. The CoC requested analyses were referred to as List 4 (normal), List 1 (normal), List 2 (normal), List 1 (TCLP), and List 3 (TCLP). These lists however, were not attached to the CoC or included with the laboratory report.	
4. Were detection limits in accordance with the quality assurance project plan (QAPP), permit, or method, or indicated as acceptable?	Yes
Comments: The detection limits were reviewed and found to be acceptable. <u>EPA Method 200.7</u> : Dilutions of 5 to 10 times for the barium and manganese analyses in samples CentralOCD-Close-033011 and NEOCD-Close-033011. <u>EPA Method 300</u> : Dilutions of 5 to 20 times were required for the chloride, fluoride, nitrate as nitrogen, nitrite as nitrogen, nitrate + nitrite, and sulfate analyses in the environmental samples. <u>SW Method 6010B</u> : Dilutions up to 500 times were required for the metals analyses in the environmental samples. <u>SW Method 8015</u> : Dilutions of 10 times were required for the DRO and motor oil range organics in sample BD-01-033111. <u>SW Method 8260B</u> : Dilutions of 20 times were required for the VOC analyses in the environmental samples	
5. Were the requested analytical methods in compliance with the QAPP, permit, or CoC?	Yes
Comments: The requested analytical methods were in compliance with the CoC.	
6. Were samples received in good condition within method specified requirements?	No
Comments: The samples were received on ice, intact, and in good condition upon arrival at Hall Environmental Analysis Laboratories with cooler temperatures outside the 4°C +/- 2°C acceptance range at 8.6°C, as noted on the Sample Receipt Checklist. The samples were hand delivered to the laboratory immediately after sample collection. Further action was not required since the samples were not given sufficient time to cool.	
7. Were samples analyzed within method specified or technical holding times?	No
Comments: The samples were analyzed within method specified or technical holding times with the following exception. The analysis of pH was performed outside of the method specified holding time of immediately which is interpreted as within 24 hours. As a result, the data were qualified as J to indicate estimated value.	
8. Were reported units appropriate for the sample matrix/matrices and method(s) of analyses?	Yes
Comments: The sample results were reported in mg/kg, µg/kg, mg/L, µg/L, pCi/u, and in standard pH units, which are appropriate for the matrices and analyses requested	
9. Do the laboratory reports include all constituents requested to be reported?	Yes
Comments: The laboratory report included the constituents requested on the CoC.	



VALIDATION CRITERIA CHECKLIST

10. Was there indication from the laboratory that the initial or continuing calibration verification results were within acceptable limits?

N/A

Comments: Initial and continuing calibration data were not included as part of this data set; however, these data are assumed to be acceptable as the laboratory did not note that any calibration verification results were outside acceptable limits

11. Was the total number of laboratory blank samples prepared equal to at least 5% of the total number of samples, or analyzed as required by the method?

Yes

Comments: The total number of laboratory blank samples prepared was equal to at least 5% of the total number of samples.

12. Were laboratory blank samples free of analyte contamination?

Yes

Comments: The laboratory blank samples were free of analyte contamination

13. Was the total number of matrix spike samples prepared equal to at least 5% of the total number of samples, or analyzed as required by the method?

No

Comments: The total number of matrix spike samples prepared was equal to at least 5% of the total number of samples. Matrix spike samples were not prepared for the radium, phenolics, DRO, or GRO analyses. These data were evaluated using other QC data. Additionally, matrix spike samples were not prepared for anion batches 26291, R44669, R44698, and R44785; metals batch 26237, and VOC batches 26239 and R44744.

Matrix spike samples for the cyanide analysis from Anatek Labs batch 110414047 was prepared from a sample not associated with this data set.

Matrix spike samples for the analyses from Hall Environmental Analysis Laboratory metals batch 26407, mercury batch 26593, anions batch R44750, EDB batch 26414, PCB batch 26425, PAH batch 26424, and TDS batch 26401 were prepared from sample CentralOCD-Close-033011. Matrix spike samples for metals batch 26389 were prepared from sample NEOCD-Close-033011. Matrix spike samples for EDB batch 26347, PCB batch 26241, SVOC batch 26243, SVOC batch 26348, and mercury batch 26253 were prepared from sample BG-NE-033011. Matrix spike samples for VOC batch 26239 were prepared from sample Central OCD-01-033111. Matrix spike samples for VOC batch R44594 were prepared from sample EB-033011.



VALIDATION CRITERIA CHECKLIST

14. Were MS/MSD percent recoveries and MS/MSD RPD values within data validation or laboratory quality control (QC) limits? No

Comments: Project specific MS and MSD percent recoveries were within laboratory QC limits, with the exceptions listed in the following table.

Analyte	Batch	MS	MSD	MS/MSD Limits
Aroclor 1016	PCB batch 26425	29.4%	30.7%	70-130%
Aroclor 1260	PCB batch 26425	23.3%	25.2%	61.1-129%
Chlorobenzene	VOC batch R44594	77.3%	--	78.8-114%
Naphthalene	PAH batch 26348	Acceptable	40.9%	42.9-109%
Naphthalene	PAH batch 26424	62.3%	61.4%	70-130%
1-Methylnaphthalene	PAH batch 26424	65.8%	64.5%	70-130%
2-Methylnaphthalene	PAH batch 26424	65.3%	64.9%	70-130%
Acenaphthylene	PAH batch 26424	67.6%	65.1%	70-130%
Fluorene	PAH batch 26424	54.6%	53.2%	70-130%
Phenanthrene	PAH batch 26424	34.8%	34.3%	70-130%
Anthracene	PAH batch 26424	Acceptable	67.4%	70-130%
Pyrene	PAH batch 26424	67.1%	57.9%	70-130%
Fluoranthene	PAH batch 26424	68.3%	Acceptable	70-130%

The analytes in the above table were qualified as J or UJ in the associated samples due to possible low bias.

The MS and MSD percent recoveries for non-project samples were considered, but data were not qualified since matrix similarity to project samples could not be guaranteed.

15. Was the total number of LCSs analyzed equal to at least 5% of the total number of samples, or analyzed as required by the method? Yes

Comments: The total number of LCSs analyzed was equal to at least 5% of the total number of samples. LCS samples were neither prepared nor required for radium analyses.

16. Were LCS/LCSD percent recoveries and LCS/LCSD RPD values within data validation or laboratory QC limits? No

Comments: The LCS percent recoveries were within laboratory QC limits with the following exceptions.

Method 200.7: The LCS percent recovery of silver in batch 26407 was outside of the laboratory QC limits 85-115% at 83.5%. As a result, silver was qualified as J or UJ in the associated samples due to a possible low bias.

Method 300.0: The LCS percent recovery of fluoride in batch R44785 was outside of the laboratory QC limits of 90-110% at 111%. Detections of fluoride in the associated samples were qualified as J due to a possible high bias.

17. Were surrogate recoveries within laboratory QC limits? Yes

Comments: Surrogate recoveries were within laboratory QC limits

18. Was the number of equipment, trip, or field blanks collected equal to at least 10% of the total number of samples, or as required by the project guidelines, QAPP, SAP, or permit? Yes

Comments: The number of equipment, trip, or field blanks collected was equal to at least 10% of the total number of samples. One equipment blank, EB-033011, one field blank, FB-033-11, and one trip blank, Trip Blank, were collected with the samples of this data set



VALIDATION CRITERIA CHECKLIST	
19. Were the trip blank, field blank, and/or equipment blank samples free of analyte contamination?	Yes
Comments: The blank samples were reported to be free of analyte contamination.	
20. Was the number of field duplicates collected equal to at least 10% of the total number of samples, or as required by the project guidelines, QAPP, SAP, or permit?	Yes
Comments: There were two field duplicate samples collected with the samples of this data set. Sample BD-01-033111 was collected as a duplicate of sample CentralOCD-01-033111 and sample BD-02-033111 was collected as a duplicate of sample NE OCD-01-033111	
21. Were field duplicate RPD values within data validation QC limits (soil 0-50%, water 0-30%, or air 0-25%)?	No
Comments: The field duplicate RPD values were within the data validation QC limits of 0-50% for soil samples as shown in the field duplicate summary tables at the end of this report with the following exception. The analyte DRO was qualified as UJ in the parent sample CentralOCD-01-033111 and as J in the duplicate sample BD-01-033111 since the detection in the duplicate was greater than two times the reporting limit.	
22. Were laboratory duplicate RPD values within laboratory QC limits?	N/A
Comments: Laboratory duplicate samples were not prepared for the analyses in this data set.	



FIELD DUPLICATE SUMMARY

Client Sample ID: CentralOCD-01-033111 Field Duplicate Sample ID: BD-01-033111			
Analyte	Laboratory Result (mg/kg)	Duplicate Result (mg/kg)	Relative Percent Difference (RPD)
Chloride	810	820	1.2%
Sulfate	420	360	15.4%
Barium	240	300	22.2%
Chromium	17	18	5.7%
Copper	5.4	5.4	0.0%
Iron	16000	18000	11.8%
Lead	6.4	5.9	8.1%
Manganese	420	430	2.4%
DRO	ND (10)	260	DL
Field duplicate RPD control limits are not to exceed 50% for soil as established by USEPA Region 1 Laboratory Data Validation Function Guidelines for Evaluation of Organic Analysis, December 1996. DL – Indicates that the analyte was detected in one of the duplicate samples and was undetected in the other sample, and therefore an RPD could not be calculated. No data were qualified if the detection was within two times the reporting limit. The analyte DRO was qualified as UJ in the parent sample CentralOCD-01-033111 and as J in the duplicate sample BD-01-033111 since the detection in the duplicate was greater than two times the reporting limit.			

Client Sample ID: NE OCD-01-033111 Field Duplicate Sample ID: BD-02-033111			
Analyte	Laboratory Result (mg/kg)	Duplicate Result (mg/kg)	Relative Percent Difference (RPD)
Chloride	240	220	8.7%
Sulfate	580	640	9.8%
Barium	290	290	0.0%
Chromium	11	12	8.7%
Iron	16000	17000	6.1%
Lead	5.8	6.5	11.4%
Manganese	400	400	0.0%
Field duplicate RPD control limits are not to exceed 50% for soil as established by USEPA Region 1 Laboratory Data Validation Function Guidelines for Evaluation of Organic Analysis, December 1996.			

DATA QUALIFICATION SUMMARY

Analyte	Method	Field Sample ID	Lab Sample ID	Result	Units	Reviewer Qualifier	Reviewer Qualifier Reason
1-Methylnaphthalene	SW8310	CentralOCD-Close-033011	1104008-04	ND (2)	ug/l	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
2-Methylnaphthalene	SW8310	CentralOCD-Close-033011	1104008-04	ND (2)	ug/l	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
Acenaphthylene	SW8310	CentralOCD-Close-033011	1104008-04	ND (2.5)	ug/l	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
Anthracene	SW8310	CentralOCD-Close-033011	1104008-04	ND (0.6)	ug/l	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
Aroclor 1016	SW8082	CentralOCD-Close-033011	1104008-04	ND (0.02)	mg/kg	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
Aroclor 1260	SW8082	CentralOCD-Close-033011	1104008-04	ND (1)	mg/kg	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
Chlorobenzene	SW8260B	EB-033011	1104008-06	ND (1)	ug/l	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
Chlorobenzene	SW8260B	FB-033-11	1104008-07	ND (1)	ug/l	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
Chlorobenzene	SW8260B	Trip Blank	1104008-16	ND (1)	ug/l	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
DRO	SW8015	BD-01-033111	1104008-18	260	mg/kg	J	High field duplicate RPD value
DRO	SW8015	Central OCD-01-033111	1104008-08	ND (10)	mg/kg	UJ	High field duplicate RPD value
Fluoranthene	SW8310	CentralOCD-Close-033011	1104008-04	ND (0.3)	ug/l	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
Fluorene	SW8310	CentralOCD-Close-033011	1104008-04	ND (0.8)	ug/l	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
Fluoride	E300	CentralOCD-Close-033011	1104008-04	1.8	mg/l	J	The LCS and/or LCSD recovery(ies) were above the acceptable limits indicating a possible high bias.
Naphthalene	SW8310	BG-NE-033011	1104008-01	ND (0.25)	mg/kg	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
Naphthalene	SW8310	CentralOCD-Close-033011	1104008-04	2.5	ug/l	J	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
pH	SM 4500	BG-NE-033011	1104008-01	9.03	pH	J	Sample was analyzed outside of the acceptable holding time.
pH	SM 4501	CentralOCD-Close-033011	1104008-04	6.52	pH	J	Sample was analyzed outside of the acceptable holding time.
Phenanthrene	SW8310	CentralOCD-Close-033011	1104008-04	ND (0.6)	ug/l	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
Pyrene	SW8310	CentralOCD-Close-033011	1104008-04	ND (0.3)	ug/l	UJ	The MS and/or MSD recovery(ies) were below the acceptable limits indicating possible matrix interference.
Silver	E200.7	CentralOCD-Close-033011	1104008-04	ND (0.005)	mg/l	UJ	The LCS and/or LCSD recovery(ies) were below the acceptable limits indicating a possible low bias.

ATTACHMENT B
SOIL SAMPLING LOGS

TRIHYDRO CORPORATION
FIELD BORING LOG

Sheet 1 of 1 Sheets

Project & Project Number: Western Refining, Gallup 697-039-002	Date: 3/30/11
Project Location/Address: Gallup, NM	Drilling Company: N/A
Client: Western Refining	Driller: N/A
Weather: Wind from W, ~20 mph, ~60°	Rig Type / Method: Shovel / Hand
Logged by: G. Price	Sample Method (circle one): Direct Push Split Spoon Shelby Tube Other: /
Logger's Signature: <i>[Signature]</i>	Surface Elevation: Casing Elevation: GE Elevation:
	Equipment List: shovel, rod

BORING ID: BG-W-033011

Boring Location: New Background Sampling

West of Refinery

Interval (ft bgs)	Texture - Grain Size Major Minor	Color Major Modifier	Plasticity	Consistency	Moisture	Odor	PID Interval Reading	Additional Comments (Odor descriptor, sheen, nodules, structure, vegetation, etc.)	
0-3"	GVL - FMC Sand - FMC Silt Clay	Grvly Sandy Silty Clayey	Black Gray - L M D Bm - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -	Strong Moderate Slight None Noted	
3-12"	GVL - FMC Sand - FMC Silt Clay	Grvly Sandy Silty Clayey	Black Gray - L M D Bm - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -	Strong Moderate Slight None Noted	
0-1"	GVL - FMC Sand - FMC Silt Clay	Grvly Sandy Silty Clayey	Black Gray - L M D Bm - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -	Strong Moderate Slight None Noted	BG-W-1 N 35° 29.302 W 108° 26.375
	GVL - FMC Sand - FMC Silt Clay	Grvly Sandy Silty Clayey	Black Gray - L M D Bm - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -	Strong Moderate Slight None Noted	BG-W-2 N 35° 29.302 W 108° 26.384
	GVL - FMC Sand - FMC Silt Clay	Grvly Sandy Silty Clayey	Black Gray - L M D Bm - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -	Strong Moderate Slight None Noted	BG-W-3 N 35° 29.301 W 108° 26.388
	GVL - FMC Sand - FMC Silt Clay	Grvly Sandy Silty Clayey	Black Gray - L M D Bm - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -	Strong Moderate Slight None Noted	BG-W-4 N 35° 29.303 W 108° 26.394
	GVL - FMC Sand - FMC Silt Clay	Grvly Sandy Silty Clayey	Black Gray - L M D Bm - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -	Strong Moderate Slight None Noted	BG-W-5 N 35° 29.305 W 108° 26.399

Sample Collected: Yes

Sample ID: BG-W-033011

Date: 3/30/11

Time: 13:15

Depth: 6-12" ~ 9"

Number/Size of Containers: 2 / 4 oz jar

Analysis to be Performed List 2 (Normal)

Duplicate Collected: No

Notes: This is a 5 point composite sample.

TRIHEDRO CORPORATION
FIELD BORING LOG

Sheet 1 of 1 Sheets

Project & Project Number: Western Refining, Gallup 697-039-002		Date: 3/30/11
Project Location/Address: Gallup, NM		Drilling Company: NA
Client: Western Refining		Driller: NA
Weather: Wind from W ~ 15 mph ~ 65°		Rig Type / Method: shovel / travel
Logged by: G Price		Sample Method (circle one): <u>Direct Push</u> Split Spoon Shelby Tube Other
Logger's Signature: <i>[Signature]</i>		Surface Elevation: Casing Elevation: GE Elevation:
		Equipment List: shovel / travel

BORING ID: BG-S-033011

Boring Location: New Background Sampling

South of Hwy / I-40

Interval (ft bgs)	Texture - Grain Size Major Minor	Color Major Modifier	Plasticity	Consistency	Moisture	Odor	PID Interval/Reading	Additional Comments (Odor descriptor, sheen, nodules, structure, vegetation, etc.)	
0-1	GVL - FMC Sand - FMC Silt Clay	Grvly Sandy Silty Clayey	Black Gray - LMD Bm - LMD Red - LMD Other	Red Brown Gray Green Rust Yellow Other % 12	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -	Strong Moderate Slight None Noted	abundant roots. All 5 sections similar.
	GVL - FMC Sand - FMC Silt Clay	Grvly Sandy Silty Clayey	Black Gray - LMD Bm - LMD Red - LMD Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -	Strong Moderate Slight None Noted	
	GVL - FMC Sand - FMC Silt Clay	Grvly Sandy Silty Clayey	Black Gray - LMD Bm - LMD Red - LMD Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -	Strong Moderate Slight None Noted	BG-S-1 N 35° 28.539 W 108° 26.116 Ele 6930
	GVL - FMC Sand - FMC Silt Clay	Grvly Sandy Silty Clayey	Black Gray - LMD Bm - LMD Red - LMD Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -	Strong Moderate Slight None Noted	BG-S-2 N 35° 28.537 W 108° 26.125 Ele 6929
	GVL - FMC Sand - FMC Silt Clay	Grvly Sandy Silty Clayey	Black Gray - LMD Bm - LMD Red - LMD Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -	Strong Moderate Slight None Noted	BG-S-3 N 35° 28.533 W 108° 26.123 Ele 6938
	GVL - FMC Sand - FMC Silt Clay	Grvly Sandy Silty Clayey	Black Gray - LMD Bm - LMD Red - LMD Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -	Strong Moderate Slight None Noted	BG-S-4 N 35° 28.531 W 108° 26.127 -Ele 6936
	GVL - FMC Sand - FMC Silt Clay	Grvly Sandy Silty Clayey	Black Gray - LMD Bm - LMD Red - LMD Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -	Strong Moderate Slight None Noted	BG-S-5 N 35° 28.528 W 108° 26.130 Ele 6940

Sample Collected: Yes

Number/Size of Containers: 2 - 4 oz jar

Sample ID: BG-S-033011

Analysis to be Performed: List 2 (Normal)

Date: 3/30/11

Duplicate Collected: No

Time: 14:10

Notes: This is a 5 point composite sample

Depth: 6-12" ~ 9"

ATTACHMENT C

LABORATORY ANALYTICAL REPORTS



COVER LETTER

Friday, March 12, 2010

Gaurav Rajen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-0227

FAX (505) 722-0210

RE: Land Farms

Order No.: 1002391

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 2/19/2010 for the analyses presented in the following report.

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

Reporting limits are determined by EPA methodology.

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

Sincerely,

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

Andy Freeman, Laboratory Manager

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



Hall Environmental Analysis Laboratory, Inc.

Date: 12-Mar-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1002391
 Project: Land Farms
 Lab ID: 1002391-01

Client Sample ID: Background
 Collection Date: 2/17/2010 9:00:00 AM
 Date Received: 2/19/2010
 Matrix: SOILL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 504.1 MODIFIED: EDB						Analyst: LRW
1,2-Dibromoethane	ND	0.10		µg/Kg	1	3/1/2010 1:41:02 PM
Surr: 1,2,3-Trichloropropane	105	56.9-128		%REC	1	3/1/2010 1:41:02 PM
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/23/2010 2:21:23 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/23/2010 2:21:23 PM
Surr: DNOP	88.6	61.7-135		%REC	1	2/23/2010 2:21:23 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/25/2010 2:22:59 PM
Surr: BFB	92.2	65.9-118		%REC	1	2/25/2010 2:22:59 PM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Fluoride	3.3	1.5		mg/Kg	5	2/20/2010 11:15:16 AM
Chloride	ND	7.5		mg/Kg	5	2/20/2010 11:15:16 AM
Nitrogen, Nitrate (As N)	2.2	1.5		mg/Kg	5	2/20/2010 11:15:16 AM
Sulfate	18	7.5		mg/Kg	5	2/20/2010 11:15:16 AM
EPA METHOD 7471: MERCURY						Analyst: SNV
Mercury	ND	0.033		mg/Kg	1	3/3/2010 1:02:57 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	3/1/2010 5:14:41 PM
Barium	310	1.0		mg/Kg	10	3/1/2010 5:45:12 PM
Cadmium	ND	0.50		mg/Kg	5	3/1/2010 5:14:41 PM
Chromium	8.0	1.5		mg/Kg	5	3/1/2010 5:14:41 PM
Copper	4.0	1.5		mg/Kg	5	3/1/2010 5:14:41 PM
Selenium	ND	13		mg/Kg	5	3/1/2010 5:14:41 PM
Silver	ND	1.3		mg/Kg	5	3/1/2010 5:14:41 PM
Uranium	ND	25		mg/Kg	5	3/3/2010 9:42:07 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: LBJ
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	2/26/2010 11:54:43 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	2/26/2010 11:54:43 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	2/26/2010 11:54:43 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	2/26/2010 11:54:43 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	2/26/2010 11:54:43 AM
2-Methylphenol	ND	0.50		mg/Kg	1	2/26/2010 11:54:43 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM
4-Nitrophenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Mar-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1002391
Project: Land Farms
Lab ID: 1002391-01

Client Sample ID: Background
Collection Date: 2/17/2010 9:00:00 AM
Date Received: 2/19/2010
Matrix: SOILL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: LBJ
Pentachlorophenol	ND	0.40		mg/Kg	1	2/26/2010 11:54:43 AM
Phenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM
Surr: 2,4,6-Tribromophenol	78.3	28.4-132		%REC	1	2/26/2010 11:54:43 AM
Surr: 2-Fluorobiphenyl	83.0	37.4-123		%REC	1	2/26/2010 11:54:43 AM
Surr: 2-Fluorophenol	79.5	28.6-110		%REC	1	2/26/2010 11:54:43 AM
Surr: 4-Terphenyl-d14	71.7	29.2-111		%REC	1	2/26/2010 11:54:43 AM
Surr: Nitrobenzene-d5	80.9	33.8-128		%REC	1	2/28/2010 11:54:43 AM
Surr: Phenol-d5	75.8	35.3-110		%REC	1	2/26/2010 11:54:43 AM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Toluene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Naphthalene	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	2/22/2010 12:46:03 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	2/22/2010 12:46:03 PM
Acetone	ND	0.75		mg/Kg	1	2/22/2010 12:46:03 PM
Bromobenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Bromoform	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Bromomethane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
2-Butanone	ND	0.50		mg/Kg	1	2/22/2010 12:46:03 PM
Carbon disulfide	ND	0.50		mg/Kg	1	2/22/2010 12:46:03 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
Chlorobenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Chloroethane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
Chloroform	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Chloromethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Dibromomethane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Mar-10

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Background

Lab Order: 1002391

Collection Date: 2/17/2010 9:00:00 AM

Project: Land Farms

Date Received: 2/19/2010

Lab ID: 1002391-01

Matrix: SOILL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
2-Hexanone	ND	0.50		mg/Kg	1	2/22/2010 12:46:03 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	2/22/2010 12:46:03 PM
Methylene chloride	ND	0.15		mg/Kg	1	2/22/2010 12:46:03 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Styrene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
Vinyl chloride	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
Surr: 1,2-Dichloroethane-d4	92.2	59.5-119		%REC	1	2/22/2010 12:46:03 PM
Surr: 4-Bromofluorobenzene	97.0	57.9-141		%REC	1	2/22/2010 12:46:03 PM
Surr: Dibromofluoromethane	99.7	65.4-122		%REC	1	2/22/2010 12:46:03 PM
Surr: Toluene-d8	91.0	81.1-112		%REC	1	2/22/2010 12:46:03 PM

EPA METHOD 418.1: TPH

Analyst: JB

Petroleum Hydrocarbons, TR ND 20 mg/Kg 1 2/23/2010

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



LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1002391
Lab ID: C10020722-001
Client Sample ID: Background

Report Date: 03/12/10
Collection Date: 02/17/10 09:00
Date Received: 02/23/10
Matrix: Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
NON-METALS							
Cyanide, Total	ND	mg/kg		0.50		SW9012	03/01/10 13:05 / eli-b
RADIONUCLIDES - TOTAL							
Radium 226	1.5	pCi/g-dry			E903.0		03/10/10 13:09 / trs
Radium 226 precision (±)	0.2	pCi/g-dry			E903.0		03/10/10 13:09 / trs
Radium 226 MDC	0.06	pCi/g-dry			E903.0		03/10/10 13:09 / trs
Radium 228	1.1	pCi/g-dry			RA-05		03/05/10 11:20 / plj
Radium 228 precision (±)	0.4	pCi/g-dry			RA-05		03/05/10 11:20 / plj
Radium 228 MDC	0.6	pCi/g-dry			RA-05		03/05/10 11:20 / plj

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Hall Environmental
Project: 1002391

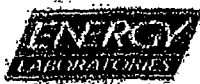
Report Date: 03/12/10
Work Order: C10020722

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: 25377
Sample ID: C10020722-001AMS Radium 226	Sample Matrix Spike 9.3	pCi/g-dry	104		70	130			03/10/10 13:09
Sample ID: C10020722-001AMSD Radium 226	Sample Matrix Spikes Duplicate 9.1	pCi/g-dry	103		70	130	1.9	22.1	03/10/10 13:09
Sample ID: LCS-25377 Radium 226	Laboratory Control Sample 1.5	pCi/g-dry	98		70	130			03/10/10 13:09
Sample ID: MB-25377 Radium 226	Method Blank 6E-05	pCi/g-dry							03/10/10 13:09
Radium 226 precision (±)	0.0002	pCi/g-dry							U
Radium 226 MDC	0.0003	pCi/g-dry							

Qualifiers:

RL - Analyte reporting limit
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Hall Environmental
Project: 1002391

Report Date: 03/12/10
Work Order: C10020722

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05							Batch: 25377		
Sample ID: LCS-25377	Laboratory Control Sample		Run: TENNELEC-3_100226C			03/05/10 11:20			
Radium 228	1.6	pCi/g-dry	107	70	130				
Sample ID: MB-25377	Method Blank		Run: TENNELEC-3_100226C			03/05/10 11:20			
Radium 228	0.005	pCi/g-dry							
Radium 228 precision (±)	0.002	pCi/g-dry							
Radium 228 MDC	0.003	pCi/g-dry							
Sample ID: C10020722-001AMS	Sample Matrix Spike		Run: TENNELEC-3_100226C			03/05/10 11:20			
Radium 228	9.0	pCi/g-dry	110	70	130				
Sample ID: C10020722-001AMSD	Sample Matrix Spike Duplicate		Run: TENNELEC-3_100226C			03/05/10 11:20			
Radium 228	9.0	pCi/g-dry	107	70	130	0.5	32.6		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Hall Environmental

Project: 1002391

Report Date: 03/12/10

Work Order: C10020722

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW9012							Batch: B_44783		
Sample ID: LCS-44783	Laboratory Control Sample				Run: SUB-B143898		03/01/10 12:30		
Cyanide, Total	4.6	mg/kg	0.50	92	60	140			
Sample ID: MB-44783	Method Blank				Run: SUB-B143898		03/01/10 12:35		
Cyanide, Total	ND	mg/kg	0.5						
Sample ID: C10020722-001B	Sample Matrix Spike				Run: SUB-B143898		03/01/10 13:06		
Cyanide, Total	4.7	mg/kg	0.50	94	50	150			
Sample ID: C10020722-001B	Sample Matrix Spike Duplicate				Run: SUB-B143898		03/01/10 13:16		
Cyanide, Total	3.5	mg/kg	0.50	71	50	150	28	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit

MDC - Minimum detectable concentration

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Land Farms

Work Order: 1002391

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB-21439		MBLK									
Batch ID:	21439	Analysis Date:	2/20/2010 10:40:27 AM								
Fluoride	ND	mg/Kg	0.30								
Chloride	ND	mg/Kg	1.5								
Nitrogen, Nitrate (As N)	ND	mg/Kg	0.30								
Sulfate	ND	mg/Kg	1.5								
Sample ID: LCS-21439		LCS									
Batch ID:	21439	Analysis Date:	2/20/2010 10:57:52 AM								
Fluoride	1.551	mg/Kg	0.30	1.5	0	103	90	110			
Chloride	14.08	mg/Kg	1.5	15	0	93.9	90	110			
Nitrogen, Nitrate (As N)	7.248	mg/Kg	0.30	7.5	0	96.6	90	110			
Sulfate	28.92	mg/Kg	1.5	30	0	98.4	90	110			
Method: EPA Method 418.1: TPH											
Sample ID: MB-21464		MBLK									
Batch ID:	21464	Analysis Date:	2/23/2010								
Petroleum Hydrocarbons, TR	ND	mg/Kg	20								
Sample ID: LCS-21464		LCS									
Batch ID:	21464	Analysis Date:	2/23/2010								
Petroleum Hydrocarbons, TR	100.7	mg/Kg	20	100	0	101	82	114			
Sample ID: LCSD-21464		LCSD									
Batch ID:	21464	Analysis Date:	2/23/2010								
Petroleum Hydrocarbons, TR	104.8	mg/Kg	20	100	0	105	82	114			
Method: EPA Method 504.1 Modified: EDB											
Sample ID: 1002391-01AMSD		MSD									
Batch ID:	21511	Analysis Date:	3/1/2010 2:08:19 PM								
1,2-Dibromoethane	1.055	µg/Kg	0.10	1	0	106	65.8	127	1.78	20	
Sample ID: MB-21511		MBLK									
Batch ID:	21511	Analysis Date:	3/1/2010 1:03:11 PM								
1,2-Dibromoethane	ND	µg/Kg	0.10								
Sample ID: LCS-21511		LCS									
Batch ID:	21511	Analysis Date:	3/1/2010 1:15:50 PM								
1,2-Dibromoethane	0.9170	µg/Kg	0.10	1	0	91.7	70	130			
Sample ID: LCSD-21511		LCSD									
Batch ID:	21511	Analysis Date:	3/1/2010 1:28:29 PM								
1,2-Dibromoethane	1.001	µg/Kg	0.10	1	0	100	70	130	8.76	20	
Sample ID: 1002391-01AMS		MS									
Batch ID:	21511	Analysis Date:	3/1/2010 1:53:40 PM								
1,2-Dibromoethane	1.074	µg/Kg	0.10	1	0	107	65.8	127			
Method: EPA Method 8016B: Diesel Range Organics											
Sample ID: MB-21442		MBLK									
Batch ID:	21442	Analysis Date:	2/23/2010 7:40:12 AM								
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-21442		LCS									
Batch ID:	21442	Analysis Date:	2/23/2010 8:16:03 AM								
Diesel Range Organics (DRO)	43.20	mg/Kg	10	50	0	86.4	64.6	116			
Sample ID: LCSD-21442		LCSD									
Batch ID:	21442	Analysis Date:	2/23/2010 8:51:46 AM								
Diesel Range Organics (DRO)	41.16	mg/Kg	10	50	0	82.3	64.6	116	4.82	17.4	

Qualifiers:

E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 NC Non-Chlorinated
 R RPD outside accepted recovery limits

Page 1

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Land Farms

Work Order: 1002391

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8015B: Gasoline Range

Sample ID: MB-21434

MBLK

Batch ID: 21434 Analysis Date: 2/25/2010 8:57:06 PM

Gasoline Range Organics (GRO)

ND

mg/Kg

5.0

Sample ID: 2.5UG GRO LCS

LCS

Batch ID: 21434 Analysis Date: 2/25/2010 8:28:49 PM

Gasoline Range Organics (GRO)

27.14

mg/Kg

5.0

25

1.96

101

77.7

135

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Land Farms

Work Order: 1002391

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: mb-21434

MBLK

Batch ID: 21434 Analysis Date: 2/22/2010 3:07:55 PM

Benzene	ND	mg/Kg	0.050
Toluene	ND	mg/Kg	0.050
Ethylbenzene	ND	mg/Kg	0.050
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.050
1,2,4-Trimethylbenzene	ND	mg/Kg	0.050
1,3,5-Trimethylbenzene	ND	mg/Kg	0.050
1,2-Dichloroethane (EDC)	ND	mg/Kg	0.050
1,2-Dibromoethane (EDB)	ND	mg/Kg	0.050
Naphthalene	ND	mg/Kg	0.10
1-Methylnaphthalene	ND	mg/Kg	0.20
2-Methylnaphthalene	ND	mg/Kg	0.20
Acetone	ND	mg/Kg	0.75
Bromobenzene	ND	mg/Kg	0.050
Bromodichloromethane	ND	mg/Kg	0.050
Bromoform	ND	mg/Kg	0.050
Bromomethane	ND	mg/Kg	0.10
2-Butanone	ND	mg/Kg	0.50
Carbon disulfide	ND	mg/Kg	0.50
Carbon tetrachloride	ND	mg/Kg	0.10
Chlorobenzene	ND	mg/Kg	0.050
Chloroethane	ND	mg/Kg	0.10
Chloroform	ND	mg/Kg	0.050
Chloromethane	ND	mg/Kg	0.050
2-Chlorotoluene	ND	mg/Kg	0.050
4-Chlorotoluene	ND	mg/Kg	0.050
cis-1,2-DCE	ND	mg/Kg	0.050
cis-1,3-Dichloropropene	ND	mg/Kg	0.050
1,2-Dibromo-3-chloropropane	ND	mg/Kg	0.10
Dibromochloromethane	ND	mg/Kg	0.050
Dibromomethane	ND	mg/Kg	0.10
1,2-Dichlorobenzene	ND	mg/Kg	0.050
1,3-Dichlorobenzene	ND	mg/Kg	0.050
1,4-Dichlorobenzene	ND	mg/Kg	0.050
Dichlorodifluoromethane	ND	mg/Kg	0.050
1,1-Dichloroethane	ND	mg/Kg	0.10
1,1-Dichloroethene	ND	mg/Kg	0.050
1,2-Dichloropropane	ND	mg/Kg	0.050
1,3-Dichloropropane	ND	mg/Kg	0.050
2,2-Dichloropropane	ND	mg/Kg	0.10
1,1-Dichloropropene	ND	mg/Kg	0.10
Hexachlorobutadiene	ND	mg/Kg	0.10
2-Hexanone	ND	mg/Kg	0.50
Isopropylbenzene	ND	mg/Kg	0.050
4-Isopropyltoluene	ND	mg/Kg	0.050

Qualifiers:

E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 NC Non-Chlorinated
 R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: Land Farms

Work Order: 1002391

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: mb-21434

MBLK

Batch ID: 21434 Analysis Date: 2/22/2010 3:07:55 PM

4-Methyl-2-pentanone	ND	mg/Kg	0.50
Methylene chloride	ND	mg/Kg	0.15
n-Butylbenzene	ND	mg/Kg	0.050
n-Propylbenzene	ND	mg/Kg	0.050
sec-Butylbenzene	ND	mg/Kg	0.050
Styrene	ND	mg/Kg	0.050
tert-Butylbenzene	ND	mg/Kg	0.050
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.050
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.050
Tetrachloroethene (PCE)	ND	mg/Kg	0.050
trans-1,2-DCE	ND	mg/Kg	0.050
trans-1,3-Dichloropropene	ND	mg/Kg	0.050
1,2,3-Trichlorobenzene	ND	mg/Kg	0.10
1,2,4-Trichlorobenzene	ND	mg/Kg	0.050
1,1,1-Trichloroethane	ND	mg/Kg	0.050
1,1,2-Trichloroethane	ND	mg/Kg	0.050
Trichloroethene (TCE)	ND	mg/Kg	0.050
Trichlorofluoromethane	ND	mg/Kg	0.050
1,2,3-Trichloropropane	ND	mg/Kg	0.10
Vinyl chloride	ND	mg/Kg	0.050
Xylenes, Total	ND	mg/Kg	0.10

Sample ID: lcs-21434

LCS

Batch ID: 21434 Analysis Date: 2/22/2010 2:39:35 PM

Benzene	1.008	mg/Kg	0.050	1	0	101	84.5	114
Toluene	1.083	mg/Kg	0.050	1	0	108	85.4	109
Chlorobenzene	1.103	mg/Kg	0.050	1	0.0058	110	86.8	110
1,1-Dichloroethene	1.088	mg/Kg	0.050	1	0	109	74.4	129
Trichloroethene (TCE)	1.045	mg/Kg	0.050	1	0	104	77.8	114

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: Land Farms

Work Order: 1002391

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8270C: Semivolatiles

Sample ID: 1002391-01Amsd

MSD

Batch ID: 21451 Analysis Date: 2/26/2010 12:53:40 PM

4-Chloro-3-methylphenol	2.568	mg/Kg	0.50	3.33	0	77.1	14.6	154	4.54	30
2-Chlorophenol	2.363	mg/Kg	0.20	3.33	0	71.0	13.3	149	3.37	30
4-Nitrophenol	2.699	mg/Kg	0.20	3.33	0	81.0	13.1	150	0.185	0
Pentachlorophenol	2.549	mg/Kg	0.40	3.33	0	76.5	20.1	139	7.40	30
Phenol	2.509	mg/Kg	0.20	3.33	0	75.4	17.3	141	0.293	30

Sample ID: mb-21451

MBLK

Batch ID: 21451 Analysis Date: 2/26/2010 10:54:22 AM

4-Chloro-3-methylphenol	ND	mg/Kg	0.50							
2-Chlorophenol	ND	mg/Kg	0.20							
2,4-Dichlorophenol	ND	mg/Kg	0.40							
2,4-Dimethylphenol	ND	mg/Kg	0.30							
4,6-Dinitro-2-methylphenol	ND	mg/Kg	0.50							
2,4-Dinitrophenol	ND	mg/Kg	0.40							
2-Methylphenol	ND	mg/Kg	0.50							
3+4-Methylphenol	ND	mg/Kg	0.20							
2-Nitrophenol	ND	mg/Kg	0.20							
4-Nitrophenol	ND	mg/Kg	0.20							
Pentachlorophenol	ND	mg/Kg	0.40							
Phenol	ND	mg/Kg	0.20							
2,4,5-Trichlorophenol	ND	mg/Kg	0.20							
2,4,6-Trichlorophenol	ND	mg/Kg	0.20							

Sample ID: lcs-21451

LCS

Batch ID: 21451 Analysis Date: 2/26/2010 1:23:08 PM

4-Chloro-3-methylphenol	2.838	mg/Kg	0.50	3.33	0	85.2	40.1	96.6		
2-Chlorophenol	2.598	mg/Kg	0.20	3.33	0	78.0	32.2	94.6		
4-Nitrophenol	1.868	mg/Kg	0.20	3.33	0	56.1	18.1	122		
Pentachlorophenol	3.013	mg/Kg	0.40	3.33	0	90.5	37.5	98.8		
Phenol	1.660	mg/Kg	0.20	3.33	0	49.8	29	96		

Sample ID: 1002391-01Ams

MS

Batch ID: 21451 Analysis Date: 2/26/2010 12:24:15 PM

4-Chloro-3-methylphenol	2.454	mg/Kg	0.50	3.33	0	73.7	14.6	154		
2-Chlorophenol	2.444	mg/Kg	0.20	3.33	0	73.4	13.3	149		
4-Nitrophenol	2.704	mg/Kg	0.20	3.33	0	81.2	13.1	150		
Pentachlorophenol	2.745	mg/Kg	0.40	3.33	0	82.4	20.1	139		
Phenol	2.502	mg/Kg	0.20	3.33	0	75.1	17.3	141		

Method: EPA Method 7471: Mercury

Sample ID: 1002391-01BMSD

MSD

Batch ID: 21525 Analysis Date: 3/3/2010 1:06:27 PM

Mercury	0.1736	mg/Kg	0.033	0.164	0.0052	103	75	125	2.84	20
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Sample ID: MB-21525

MBLK

Batch ID: 21525 Analysis Date: 3/3/2010 12:59:28 PM

Mercury	ND	mg/Kg	0.033							
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Sample ID: LCS-21525

LCS

Batch ID: 21525 Analysis Date: 3/3/2010 1:01:12 PM

Mercury	0.1676	mg/Kg	0.033	0.167	0.0006	100	80	120		
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Sample ID: 1002391-01BMS

MS

Batch ID: 21525 Analysis Date: 3/3/2010 1:04:42 PM

Mercury	0.1786	mg/Kg	0.033	0.166	0.0052	104	75	125		
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Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Land Farms

Work Order: 1002391

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 6010B: Soil Metals

Sample ID: 1002391-01BMSD

MSD

Batch ID: 21509 Analysis Date: 3/1/2010 5:19:37 PM

Arsenic	20.63	mg/Kg	13	23.91	0	86.3	75	125	0.235	20	
Cadmium	23.92	mg/Kg	0.50	23.91	0	100	75	125	4.51	20	
Chromium	30.60	mg/Kg	1.5	23.91	8.003	94.5	75	125	4.03	20	
Copper	26.43	mg/Kg	1.5	23.91	3.95	94.0	75	125	4.76	20	
Selenium	20.23	mg/Kg	13	23.91	0	84.6	75	125	12.2	20	
Silver	23.72	mg/Kg	1.3	23.91	0	99.2	75	125	3.85	20	

Sample ID: MB-21509

MBLK

Batch ID: 21509 Analysis Date: 3/1/2010 5:00:24 PM

Arsenic	ND	mg/Kg	2.5								
Barium	ND	mg/Kg	0.10								
Cadmium	ND	mg/Kg	0.10								
Chromium	ND	mg/Kg	0.30								
Copper	ND	mg/Kg	0.30								
Selenium	ND	mg/Kg	2.5								
Silver	ND	mg/Kg	0.25								

Sample ID: MB-21509

MBLK

Batch ID: 21509 Analysis Date: 3/3/2010 9:37:19 AM

Uranium	ND	mg/Kg	5.0								
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Sample ID: LCS-21509

LCS

Batch ID: 21509 Analysis Date: 3/1/2010 5:02:51 PM

Arsenic	24.39	mg/Kg	2.5	25	0	97.6	80	120			
Barium	24.70	mg/Kg	0.10	25	0	98.8	80	120			
Cadmium	24.02	mg/Kg	0.10	25	0	96.1	80	120			
Chromium	24.71	mg/Kg	0.30	25	0	98.8	80	120			
Copper	25.63	mg/Kg	0.30	25	0.1818	102	80	120			
Selenium	24.66	mg/Kg	2.5	25	0	98.6	80	120			
Silver	24.85	mg/Kg	0.25	25	0.1556	98.8	80	120			

Sample ID: LCS-21509

LCS

Batch ID: 21509 Analysis Date: 3/3/2010 9:39:43 AM

Uranium	28.97	mg/Kg	5.0	25	0	116	80	120			
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Sample ID: 1002391-01BMS

MS

Batch ID: 21509 Analysis Date: 3/1/2010 5:17:10 PM

Arsenic	20.67	mg/Kg	13	24.3	0	85.1	75	125			
Cadmium	22.87	mg/Kg	0.50	24.3	0	94.1	75	125			
Chromium	29.39	mg/Kg	1.5	24.3	8.003	88.0	75	125			
Copper	25.20	mg/Kg	1.5	24.3	3.95	87.5	75	125			
Selenium	17.90	mg/Kg	13	24.3	0	73.7	75	125			S
Silver	22.82	mg/Kg	1.3	24.3	0	93.9	75	125			

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU

Date Received:

2/19/2010

Work Order Number 1002391

Received by: TLS

Sample ID labels checked by:

Checklist completed by:

Signature

Date

Initials

Matrix:

Carrier name FedEx

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Not Shipped ☐

Custody seals intact on sample bottles?

Yes ☒

No ☐

N/A ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☒

Yes ☐

No ☐

Number of preserved bottles checked for pH:

Water - Preservation labels on bottle and cap match?

Yes ☐

No ☐

N/A ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

<2 >12 unless noted below.

Container/Temp Blank temperature?

5.1°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

per CR analysis for Ar 2/19/10

Corrective Action

Chain-of-Custody Record

Client: **WESTERN REFINING**

Turn-Around Time:

☒ Standard ☐ Rush

Address: **GALLUP**

Project Name:

LAND FARMS

Phone #: **505 722 3833**

Project #:

BACKGROUND

email or Fax#:

Project Manager:

G. RAJEN

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

☐ Other

☐ EDD (Type)

Sampler:

On-site / Off-site

Sample Temperature



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8024)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8260)	8310 (PNA or PAH)	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	As, Ba, Cd, Cr, Hg, Se, Pb, U, Cu, 6010/7421	PHENOLS 420.3	Radium 226, 228	901.1	Cyanide	Air Bubbles (Y or N)
2/17	9:00AM	BACKGROUND	1802	NONE	10023901	X		X	X				X									
			1802	NONE						X	X				X		X	X				
			1802	NONE															X			

Date: 2/18	Time: 9:00	Relinquished by: ALVIN DORSEY	Received by: [Signature] 2/19/10	Remarks:
Date:	Time:	Relinquished by:	Received by:	

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



COVER LETTER

Wednesday, May 04, 2011

Ed Riege
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833

FAX (505) 722-0210

RE: Gallup OCD Landfarms

Order No.: 1104008

Dear Ed Riege:

Hall Environmental Analysis Laboratory, Inc. received 18 sample(s) on 3/31/2011 for the analyses presented in the following report.

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

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

Sincerely,



Andy Freeman, Laboratory Manager

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



Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Project: Gallup OCD Landfarms
Lab Order: 1104008

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Batch ID	Test Name	Collection Date
1104008-01A	BG-NE-033011	26291	EPA Method 300.0: Anions	3/30/2011 12:10:00 PM
1104008-01A	BG-NE-033011	26348	EPA Method 8310: PAHs	3/30/2011 12:10:00 PM
1104008-01A	BG-NE-033011	26347	EPA Method 504.1 Modified: EDB	3/30/2011 12:10:00 PM
1104008-01A	BG-NE-033011	26253	EPA Method 7471: Mercury	3/30/2011 12:10:00 PM
1104008-01A	BG-NE-033011	26291	EPA Method 300.0: Anions	3/30/2011 12:10:00 PM
1104008-01A	BG-NE-033011	26239	EPA Method 8260B: VOLATILES	3/30/2011 12:10:00 PM
1104008-01A	BG-NE-033011	26243	EPA Method 8270C: Semivolatiles	3/30/2011 12:10:00 PM
1104008-01A	BG-NE-033011	26241	EPA Method 8082: PCB's	3/30/2011 12:10:00 PM
1104008-01A	BG-NE-033011	26237	EPA Method 6010B: Soil Metals	3/30/2011 12:10:00 PM
1104008-01A	BG-NE-033011	26237	EPA Method 6010B: Soil Metals	3/30/2011 12:10:00 PM
1104008-01A	BG-NE-033011	26237	EPA Method 6010B: Soil Metals	3/30/2011 12:10:00 PM
1104008-01A	BG-NE-033011	26237	EPA Method 6010B: Soil Metals	3/30/2011 12:10:00 PM
1104008-01A	BG-NE-033011	R44664	SM4500-H+B: pH	3/30/2011 12:10:00 PM
1104008-01B	BG-NE-033011	R44992	CYANIDE-TOTAL	3/30/2011 12:10:00 PM
1104008-01C	BG-NE-033011	R45118	EPA 903.1: Ra 226 and EPA 904.0: Ra 2	3/30/2011 12:10:00 PM
1104008-02A	BG-W-033011	26237	EPA Method 6010B: Soil Metals	3/30/2011 1:15:00 PM
1104008-02A	BG-W-033011	26291	EPA Method 300.0: Anions	3/30/2011 1:15:00 PM
1104008-02A	BG-W-033011	26291	EPA Method 300.0: Anions	3/30/2011 1:15:00 PM
1104008-02A	BG-W-033011	26291	EPA Method 300.0: Anions	3/30/2011 1:15:00 PM
1104008-02A	BG-W-033011	26237	EPA Method 6010B: Soil Metals	3/30/2011 1:15:00 PM
1104008-02A	BG-W-033011	26253	EPA Method 7471: Mercury	3/30/2011 1:15:00 PM
1104008-02A	BG-W-033011	26237	EPA Method 6010B: Soil Metals	3/30/2011 1:15:00 PM
1104008-02A	BG-W-033011	26237	EPA Method 6010B: Soil Metals	3/30/2011 1:15:00 PM
1104008-03A	BG-S-033011	26237	EPA Method 6010B: Soil Metals	3/30/2011 2:10:00 PM
1104008-03A	BG-S-033011	26291	EPA Method 300.0: Anions	3/30/2011 2:10:00 PM
1104008-03A	BG-S-033011	26291	EPA Method 300.0: Anions	3/30/2011 2:10:00 PM
1104008-03A	BG-S-033011	26237	EPA Method 6010B: Soil Metals	3/30/2011 2:10:00 PM
1104008-03A	BG-S-033011	26237	EPA Method 6010B: Soil Metals	3/30/2011 2:10:00 PM
1104008-03A	BG-S-033011	26237	EPA Method 6010B: Soil Metals	3/30/2011 2:10:00 PM
1104008-03A	BG-S-033011	26253	EPA Method 7471: Mercury	3/30/2011 2:10:00 PM
1104008-03A	BG-S-033011	26291	EPA Method 300.0: Anions	3/30/2011 2:10:00 PM
1104008-04A	CentralOCD-Close-0	26315	Volatiles by 8260B/1311	3/30/2011 4:30:00 PM
1104008-04B	CentralOCD-Close-0	R44744	EPA Method 8260B: VOLATILES	4/8/2011
1104008-04C	CentralOCD-Close-0	26414	EPA Method 8011/504.1: EDB	4/8/2011
1104008-04D	CentralOCD-Close-0	26425	EPA Method 8082: PCB's	4/8/2011
1104008-04D	CentralOCD-Close-0	26424	EPA Method 8310: PAHs	4/8/2011
1104008-04E	CentralOCD-Close-0	26405	Total Phenolics	4/8/2011
1104008-04F	CentralOCD-Close-0	26407	EPA Method 200.7: Metals	4/8/2011

CLIENT: Western Refining Southwest, Gallup
Project: Gallup OCD Landfarms
Lab Order: 1104008

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Batch ID	Test Name	Collection Date
1104008-04F	CentralOCD-Close-0	26407	EPA Method 200.7: Metals	4/8/2011
1104008-04F	CentralOCD-Close-0	26593	EPA Method 245.1: Mercury	4/8/2011
1104008-04G	CentralOCD-Close-0	26401	SM2540C MOD: Total Dissolved Solids	4/8/2011
1104008-04G	CentralOCD-Close-0	R44785	EPA Method 300.0: Anions	4/8/2011
1104008-04G	CentralOCD-Close-0	R44769	SM4500-H+B: pH	4/8/2011
1104008-04G	CentralOCD-Close-0	R44750	EPA Method 300.0: Anions	4/8/2011
1104008-04G	CentralOCD-Close-0	R44750	EPA Method 300.0: Anions	4/8/2011
1104008-04G	CentralOCD-Close-0	R44785	EPA Method 300.0: Anions	4/8/2011
1104008-04H	CentralOCD-Close-0	R44992	EPA 335.4: Total Cyanide Subbed	4/8/2011
1104008-05B	NEOCD-Close-0330	R44669	EPA Method 300.0: Anions	4/8/2011
1104008-05B	NEOCD-Close-0330	R44669	EPA Method 300.0: Anions	4/8/2011
1104008-05B	NEOCD-Close-0330	R44698	EPA Method 300.0: Anions	4/8/2011
1104008-05C	NEOCD-Close-0330	26389	EPA Method 200.7: Metals	4/8/2011
1104008-05C	NEOCD-Close-0330	26389	EPA Method 200.7: Metals	4/8/2011
1104008-05C	NEOCD-Close-0330	26389	EPA Method 200.7: Metals	4/8/2011
1104008-06A	EB-033011	R44594	EPA Method 8260B: VOLATILES	3/30/2011 6:00:00 PM
1104008-07A	FB-033-11	R44594	EPA Method 8260B: VOLATILES	3/30/2011 6:05:00 PM
1104008-08A	Central OCD-01-033	26239	EPA Method 8021B: Volatiles	3/31/2011 10:30:00 AM
1104008-08A	Central OCD-01-033	26291	EPA Method 300.0: Anions	3/31/2011 10:30:00 AM
1104008-08A	Central OCD-01-033	26291	EPA Method 300.0: Anions	3/31/2011 10:30:00 AM
1104008-08A	Central OCD-01-033	26239	EPA Method 8015B: Gasoline Range	3/31/2011 10:30:00 AM
1104008-08A	Central OCD-01-033	26269	EPA Method 418.1: TPH	3/31/2011 10:30:00 AM
1104008-08A	Central OCD-01-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 10:30:00 AM
1104008-08A	Central OCD-01-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 10:30:00 AM
1104008-08A	Central OCD-01-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 10:30:00 AM
1104008-08A	Central OCD-01-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 10:30:00 AM
1104008-08A	Central OCD-01-033	26252	EPA Method 8015B: Diesel Range Orga	3/31/2011 10:30:00 AM
1104008-08B	Central OCD-01-033	R45118	EPA 903.1: Ra 226 and EPA 904.0: Ra 2	3/31/2011 10:30:00 AM
1104008-09A	Central OCD-02-033	26239	EPA Method 8015B: Gasoline Range	3/31/2011 11:00:00 AM
1104008-09A	Central OCD-02-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:00:00 AM
1104008-09A	Central OCD-02-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:00:00 AM
1104008-09A	Central OCD-02-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:00:00 AM
1104008-09A	Central OCD-02-033	26239	EPA Method 8021B: Volatiles	3/31/2011 11:00:00 AM
1104008-09A	Central OCD-02-033	26252	EPA Method 8015B: Diesel Range Orga	3/31/2011 11:00:00 AM
1104008-09A	Central OCD-02-033	26291	EPA Method 300.0: Anions	3/31/2011 11:00:00 AM
1104008-09A	Central OCD-02-033	26291	EPA Method 300.0: Anions	3/31/2011 11:00:00 AM
1104008-09A	Central OCD-02-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:00:00 AM
1104008-09B	Central OCD-02-033	R45118	EPA 903.1: Ra 226 and EPA 904.0: Ra 2	3/31/2011 11:00:00 AM
1104008-10A	Central OCD-03-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:35:00 AM
1104008-10A	Central OCD-03-033	26291	EPA Method 300.0: Anions	3/31/2011 11:35:00 AM

CLIENT: Western Refining Southwest, Gallup
Project: Gallup OCD Landfarms
Lab Order: 1104008

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Batch ID	Test Name	Collection Date
1104008-10A	Central OCD-03-033	26291	EPA Method 300.0: Anions	3/31/2011 11:35:00 AM
1104008-10A	Central OCD-03-033	26252	EPA Method 8015B: Diesel Range Orga	3/31/2011 11:35:00 AM
1104008-10A	Central OCD-03-033	26239	EPA Method 8021B: Volatiles	3/31/2011 11:35:00 AM
1104008-10A	Central OCD-03-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:35:00 AM
1104008-10A	Central OCD-03-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:35:00 AM
1104008-10A	Central OCD-03-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:35:00 AM
1104008-10A	Central OCD-03-033	26239	EPA Method 8015B: Gasoline Range	3/31/2011 11:35:00 AM
1104008-10B	Central OCD-03-033	R45118	EPA 903.1: Ra 226 and EPA 904.0: Ra 2	3/31/2011 11:35:00 AM
1104008-11A	Central OCD-04-033	26239	EPA Method 8021B: Volatiles	3/31/2011 11:20:00 AM
1104008-11A	Central OCD-04-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:20:00 AM
1104008-11A	Central OCD-04-033	26291	EPA Method 300.0: Anions	3/31/2011 11:20:00 AM
1104008-11A	Central OCD-04-033	26291	EPA Method 300.0: Anions	3/31/2011 11:20:00 AM
1104008-11A	Central OCD-04-033	26239	EPA Method 8015B: Gasoline Range	3/31/2011 11:20:00 AM
1104008-11A	Central OCD-04-033	26252	EPA Method 8015B: Diesel Range Orga	3/31/2011 11:20:00 AM
1104008-11A	Central OCD-04-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:20:00 AM
1104008-11A	Central OCD-04-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:20:00 AM
1104008-11A	Central OCD-04-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:20:00 AM
1104008-11A	Central OCD-04-033	26237	EPA Method 6010B: Soil Metals	3/31/2011 11:20:00 AM
1104008-11B	Central OCD-04-033	R45118	EPA 903.1: Ra 226 and EPA 904.0: Ra 2	3/31/2011 11:20:00 AM
1104008-12A	NE OCD-01-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 8:45:00 AM
1104008-12A	NE OCD-01-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 8:45:00 AM
1104008-12A	NE OCD-01-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 8:45:00 AM
1104008-12A	NE OCD-01-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 8:45:00 AM
1104008-12A	NE OCD-01-033111	26291	EPA Method 300.0: Anions	3/31/2011 8:45:00 AM
1104008-12A	NE OCD-01-033111	26291	EPA Method 300.0: Anions	3/31/2011 8:45:00 AM
1104008-12B	NE OCD-01-033111	R45118	EPA 903.1: Ra 226 and EPA 904.0: Ra 2	3/31/2011 8:45:00 AM
1104008-13A	NE OCD-02-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 9:00:00 AM
1104008-13A	NE OCD-02-033111	26291	EPA Method 300.0: Anions	3/31/2011 9:00:00 AM
1104008-13A	NE OCD-02-033111	26291	EPA Method 300.0: Anions	3/31/2011 9:00:00 AM
1104008-13A	NE OCD-02-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 9:00:00 AM
1104008-13A	NE OCD-02-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 9:00:00 AM
1104008-13A	NE OCD-02-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 9:00:00 AM
1104008-13B	NE OCD-02-033111	R45118	EPA 903.1: Ra 226 and EPA 904.0: Ra 2	3/31/2011 9:00:00 AM
1104008-14A	NE OCD-03-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 9:25:00 AM
1104008-14A	NE OCD-03-033111	26291	EPA Method 300.0: Anions	3/31/2011 9:25:00 AM
1104008-14A	NE OCD-03-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 9:25:00 AM
1104008-14A	NE OCD-03-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 9:25:00 AM
1104008-14A	NE OCD-03-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 9:25:00 AM
1104008-14A	NE OCD-03-033111	26291	EPA Method 300.0: Anions	3/31/2011 9:25:00 AM
1104008-14B	NE OCD-03-033111	R45118	EPA 903.1: Ra 226 and EPA 904.0: Ra 2	3/31/2011 9:25:00 AM
1104008-15A	NE OCD-04-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 9:40:00 AM

CLIENT: Western Refining Southwest, Gallup
Project: Gallup OCD Landfarms
Lab Order: 1104008

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Batch ID	Test Name	Collection Date
1104008-15A	NE OCD-04-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 9:40:00 AM
1104008-15A	NE OCD-04-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 9:40:00 AM
1104008-15A	NE OCD-04-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011 9:40:00 AM
1104008-15A	NE OCD-04-033111	26291	EPA Method 300.0: Anions	3/31/2011 9:40:00 AM
1104008-15B	NE OCD-04-033111	R45118	EPA 903.1: Ra 226 and EPA 904.0: Ra 2	3/31/2011 9:40:00 AM
1104008-16A	Trip Blank	R44594	EPA Method 8260B: VOLATILES	
1104008-17A	BD-02-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011
1104008-17A	BD-02-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011
1104008-17A	BD-02-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011
1104008-17A	BD-02-033111	26291	EPA Method 300.0: Anions	3/31/2011
1104008-17A	BD-02-033111	26291	EPA Method 300.0: Anions	3/31/2011
1104008-17A	BD-02-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011
1104008-17B	BD-02-033111	R45118	EPA 903.1: Ra 226 and EPA 904.0: Ra 2	3/31/2011
1104008-18A	BD-01-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011
1104008-18A	BD-01-033111	26291	EPA Method 300.0: Anions	3/31/2011
1104008-18A	BD-01-033111	26291	EPA Method 300.0: Anions	3/31/2011
1104008-18A	BD-01-033111	26239	EPA Method 8015B: Gasoline Range	3/31/2011
1104008-18A	BD-01-033111	26239	EPA Method 8021B: Volatiles	3/31/2011
1104008-18A	BD-01-033111	26252	EPA Method 8015B: Diesel Range Orga	3/31/2011
1104008-18A	BD-01-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011
1104008-18A	BD-01-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011
1104008-18A	BD-01-033111	26237	EPA Method 6010B: Soil Metals	3/31/2011
1104008-18B	BD-01-033111	R45118	EPA 903.1: Ra 226 and EPA 904.0: Ra 2	3/31/2011

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-01

Client Sample ID: BG-NE-033011
Collection Date: 3/30/2011 12:10:00 PM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 504.1 MODIFIED: EDB						Analyst: LRW
1,2-Dibromoethane	ND	0.10		µg/Kg	1	4/11/2011 8:04:28 PM
Surr: 1,2,3-Trichloropropane	102	48.2-131		%REC	1	4/11/2011 8:04:28 PM
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	4/5/2011 5:47:47 PM
Aroclor 1221	ND	0.020		mg/Kg	1	4/5/2011 5:47:47 PM
Aroclor 1232	ND	0.020		mg/Kg	1	4/5/2011 5:47:47 PM
Aroclor 1242	ND	0.020		mg/Kg	1	4/5/2011 5:47:47 PM
Aroclor 1248	ND	0.020		mg/Kg	1	4/5/2011 5:47:47 PM
Aroclor 1254	ND	0.020		mg/Kg	1	4/5/2011 5:47:47 PM
Aroclor 1260	ND	0.020		mg/Kg	1	4/5/2011 5:47:47 PM
Surr: Decachlorobiphenyl	79.2	20.8-136		%REC	1	4/5/2011 5:47:47 PM
EPA METHOD 8310: PAHS						Analyst: SCC
Naphthalene	ND	0.25		mg/Kg	1	4/13/2011 1:50:59 PM
1-Methylnaphthalene	ND	0.25		mg/Kg	1	4/13/2011 1:50:59 PM
2-Methylnaphthalene	ND	0.25		mg/Kg	1	4/13/2011 1:50:59 PM
Acenaphthylene	ND	0.25		mg/Kg	1	4/13/2011 1:50:59 PM
Acenaphthene	ND	0.25		mg/Kg	1	4/13/2011 1:50:59 PM
Fluorene	ND	0.030		mg/Kg	1	4/13/2011 1:50:59 PM
Phenanthrene	ND	0.015		mg/Kg	1	4/13/2011 1:50:59 PM
Anthracene	ND	0.015		mg/Kg	1	4/13/2011 1:50:59 PM
Fluoranthene	ND	0.020		mg/Kg	1	4/13/2011 1:50:59 PM
Pyrene	ND	0.025		mg/Kg	1	4/13/2011 1:50:59 PM
Benz(a)anthracene	ND	0.010		mg/Kg	1	4/13/2011 1:50:59 PM
Chrysene	ND	0.011		mg/Kg	1	4/13/2011 1:50:59 PM
Benzo(b)fluoranthene	ND	0.010		mg/Kg	1	4/13/2011 1:50:59 PM
Benzo(k)fluoranthene	ND	0.010		mg/Kg	1	4/13/2011 1:50:59 PM
Benzo(a)pyrene	ND	0.010		mg/Kg	1	4/13/2011 1:50:59 PM
Dibenz(a,h)anthracene	ND	0.010		mg/Kg	1	4/13/2011 1:50:59 PM
Benzo(g,h,i)perylene	ND	0.010		mg/Kg	1	4/13/2011 1:50:59 PM
Indeno(1,2,3-cd)pyrene	ND	0.10		mg/Kg	1	4/13/2011 1:50:59 PM
Surr: Benzo(e)pyrene	82.7	37.6-115		%REC	1	4/13/2011 1:50:59 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	4.3	1.5		mg/Kg	5	4/8/2011 4:23:25 PM
Chloride	7.6	7.5		mg/Kg	5	4/8/2011 4:23:25 PM
Nitrogen, Nitrate (As N)	ND	1.5		mg/Kg	5	4/8/2011 4:23:25 PM
Sulfate	42	7.5		mg/Kg	5	4/8/2011 4:23:25 PM
EPA METHOD 7471: MERCURY						Analyst: ELS

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-01

Client Sample ID: BG-NE-033011
Collection Date: 3/30/2011 12:10:00 PM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	4/5/2011 12:42:41 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	4/5/2011 11:29:42 AM
Barium	380	1.0		mg/Kg	10	4/5/2011 1:08:39 PM
Cadmium	ND	0.50		mg/Kg	5	4/5/2011 11:29:42 AM
Chromium	17	1.5		mg/Kg	5	4/5/2011 11:29:42 AM
Copper	4.2	1.5		mg/Kg	5	4/5/2011 11:29:42 AM
Iron	20000	500		mg/Kg	500	4/5/2011 1:12:54 PM
Lead	6.0	1.3		mg/Kg	5	4/5/2011 11:29:42 AM
Manganese	370	1.0		mg/Kg	10	4/5/2011 1:08:39 PM
Selenium	ND	13		mg/Kg	5	4/5/2011 11:29:42 AM
Silver	ND	1.3		mg/Kg	5	4/5/2011 11:29:42 AM
Uranium	ND	50		mg/Kg	10	4/5/2011 1:08:39 PM
Zinc	23	13		mg/Kg	5	4/5/2011 11:29:42 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	4/7/2011 6:29:37 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	4/7/2011 6:29:37 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	4/7/2011 6:29:37 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	4/7/2011 6:29:37 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	4/7/2011 6:29:37 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	4/7/2011 6:29:37 PM
2-Methylphenol	ND	0.50		mg/Kg	1	4/7/2011 6:29:37 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	4/7/2011 6:29:37 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	4/7/2011 6:29:37 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	4/7/2011 6:29:37 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	4/7/2011 6:29:37 PM
Phenol	ND	0.20		mg/Kg	1	4/7/2011 6:29:37 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	4/7/2011 6:29:37 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	4/7/2011 6:29:37 PM
Surr: 2,4,6-Tribromophenol	70.3	29.4-125		%REC	1	4/7/2011 6:29:37 PM
Surr: 2-Fluorobiphenyl	62.1	21-131		%REC	1	4/7/2011 6:29:37 PM
Surr: 2-Fluorophenol	64.5	25.7-110		%REC	1	4/7/2011 6:29:37 PM
Surr: 4-Terphenyl-d14	43.9	36.2-172		%REC	1	4/7/2011 6:29:37 PM
Surr: Nitrobenzene-d5	62.4	23.2-122		%REC	1	4/7/2011 6:29:37 PM
Surr: Phenol-d5	71.4	25.2-114		%REC	1	4/7/2011 6:29:37 PM
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Toluene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-01

Client Sample ID: BG-NE-033011
Collection Date: 3/30/2011 12:10:00 PM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Ethylbenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Naphthalene	ND	0.10		mg/Kg	1	4/7/2011 6:08:04 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	4/7/2011 6:08:04 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	4/7/2011 6:08:04 PM
Acetone	ND	0.75		mg/Kg	1	4/7/2011 6:08:04 PM
Bromobenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Bromoform	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Bromomethane	ND	0.15		mg/Kg	1	4/7/2011 6:08:04 PM
2-Butanone	ND	0.50		mg/Kg	1	4/7/2011 6:08:04 PM
Carbon disulfide	ND	0.50		mg/Kg	1	4/7/2011 6:08:04 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	4/7/2011 6:08:04 PM
Chlorobenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Chloroethane	ND	0.10		mg/Kg	1	4/7/2011 6:08:04 PM
Chloroform	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Chloromethane	ND	0.15		mg/Kg	1	4/7/2011 6:08:04 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	4/7/2011 6:08:04 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Dibromomethane	ND	0.10		mg/Kg	1	4/7/2011 6:08:04 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	4/7/2011 6:08:04 PM
1,1-Dichloroethane	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	4/7/2011 6:08:04 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	4/7/2011 6:08:04 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	4/7/2011 6:08:04 PM
2-Hexanone	ND	0.50		mg/Kg	1	4/7/2011 6:08:04 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
POL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-01

Client Sample ID: BG-NE-033011
Collection Date: 3/30/2011 12:10:00 PM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
4-Isopropyltoluene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	4/7/2011 6:08:04 PM
Methylene chloride	ND	0.15		mg/Kg	1	4/7/2011 6:08:04 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Styrene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	4/7/2011 6:08:04 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	4/7/2011 6:08:04 PM
Vinyl chloride	ND	0.050		mg/Kg	1	4/7/2011 6:08:04 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/7/2011 6:08:04 PM
Surr: 1,2-Dichloroethane-d4	76.4	49.2-130		%REC	1	4/7/2011 6:08:04 PM
Surr: 4-Bromofluorobenzene	99.9	68.3-124		%REC	1	4/7/2011 6:08:04 PM
Surr: Dibromofluoromethane	78.2	65.5-126		%REC	1	4/7/2011 6:08:04 PM
Surr: Toluene-d8	93.0	87.6-115		%REC	1	4/7/2011 6:08:04 PM
SM4500-H+B: PH						Analyst: KS
pH	9.03	0.100		pH Units	1	4/11/2011 3:39:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-02

Client Sample ID: BG-W-033011
Collection Date: 3/30/2011 1:15:00 PM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	2.4	1.5		mg/Kg	5	4/13/2011 5:17:11 AM
Chloride	ND	7.5		mg/Kg	5	4/13/2011 5:17:11 AM
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	4/13/2011 5:17:11 AM
Nitrogen, Nitrate (As N)	3.0	1.5		mg/Kg	5	4/13/2011 5:17:11 AM
Sulfate	15	7.5		mg/Kg	5	4/13/2011 5:17:11 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	4/5/2011 12:51:48 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	4/5/2011 11:36:29 AM
Barium	380	1.0		mg/Kg	10	4/5/2011 1:23:44 PM
Cadmium	ND	0.50		mg/Kg	5	4/5/2011 11:36:29 AM
Chromium	16	1.5		mg/Kg	5	4/5/2011 11:36:29 AM
Copper	1.7	1.5		mg/Kg	5	4/5/2011 11:36:29 AM
Iron	19000	500		mg/Kg	500	4/5/2011 1:26:19 PM
Lead	8.2	1.3		mg/Kg	5	4/5/2011 11:36:29 AM
Manganese	370	1.0		mg/Kg	10	4/5/2011 1:23:44 PM
Selenium	ND	13		mg/Kg	5	4/5/2011 11:36:29 AM
Silver	ND	1.3		mg/Kg	5	4/5/2011 11:36:29 AM
Uranium	ND	50		mg/Kg	10	4/5/2011 1:23:44 PM
Zinc	20	13		mg/Kg	5	4/5/2011 11:36:29 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
Q Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-03

Client Sample ID: BG-S-033011
Collection Date: 3/30/2011 2:10:00 PM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	1.8	1.5		mg/Kg	5	4/13/2011 5:34:36 AM
Chloride	ND	7.5		mg/Kg	5	4/13/2011 5:34:36 AM
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	4/13/2011 5:34:36 AM
Nitrogen, Nitrate (As N)	2.1	1.5		mg/Kg	5	4/13/2011 5:34:36 AM
Sulfate	11	7.5		mg/Kg	5	4/13/2011 5:34:36 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	4/5/2011 12:53:38 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	4/5/2011 11:51:22 AM
Barium	390	1.0		mg/Kg	10	4/5/2011 1:28:55 PM
Cadmium	ND	0.50		mg/Kg	5	4/5/2011 11:51:22 AM
Chromium	9.8	1.5		mg/Kg	5	4/5/2011 11:51:22 AM
Copper	1.9	1.5		mg/Kg	5	4/5/2011 11:51:22 AM
Iron	13000	500		mg/Kg	500	4/5/2011 1:31:30 PM
Lead	2.4	1.3		mg/Kg	5	4/5/2011 11:51:22 AM
Manganese	820	50		mg/Kg	500	4/5/2011 1:31:30 PM
Selenium	ND	13		mg/Kg	5	4/5/2011 11:51:22 AM
Silver	ND	1.3		mg/Kg	5	4/5/2011 11:51:22 AM
Uranium	ND	50		mg/Kg	10	4/5/2011 1:28:55 PM
Zinc	21	13		mg/Kg	5	4/5/2011 11:51:22 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
ND Not Detected at the Reporting Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-04

Client Sample ID: CentralOCD-Close-033011
Collection Date: 4/8/2011
Date Received: 3/31/2011
Matrix: LEACHATE

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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EPA METHOD 8011/504.1: EDB

Analyst: JDC

1,2-Dibromoethane	ND	0.010		µg/L	1	4/14/2011 4:42:21 PM
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EPA METHOD 8082: PCB'S

Analyst: SCC

Aroclor 1016	ND	1.0		µg/L	1	4/19/2011 9:22:46 PM
Aroclor 1221	ND	1.0		µg/L	1	4/19/2011 9:22:46 PM
Aroclor 1232	ND	1.0		µg/L	1	4/19/2011 9:22:46 PM
Aroclor 1242	ND	1.0		µg/L	1	4/19/2011 9:22:46 PM
Aroclor 1248	ND	1.0		µg/L	1	4/19/2011 9:22:46 PM
Aroclor 1254	ND	1.0		µg/L	1	4/19/2011 9:22:46 PM
Aroclor 1260	ND	1.0		µg/L	1	4/19/2011 9:22:46 PM
Surr: Decachlorobiphenyl	45.2	23.9-124		%REC	1	4/19/2011 9:22:46 PM
Surr: Tetrachloro-m-xylene	42.8	28.1-139		%REC	1	4/19/2011 9:22:46 PM

EPA METHOD 8310: PAHS

Analyst: SCC

Naphthalene	2.5	2.0		µg/L	1	4/21/2011 8:05:03 PM
1-Methylnaphthalene	ND	2.0		µg/L	1	4/21/2011 8:05:03 PM
2-Methylnaphthalene	ND	2.0		µg/L	1	4/21/2011 8:05:03 PM
Acenaphthylene	ND	2.5		µg/L	1	4/21/2011 8:05:03 PM
Acenaphthene	ND	5.0		µg/L	1	4/21/2011 8:05:03 PM
Fluorene	ND	0.80		µg/L	1	4/21/2011 8:05:03 PM
Phenanthrene	ND	0.60		µg/L	1	4/21/2011 8:05:03 PM
Anthracene	ND	0.60		µg/L	1	4/21/2011 8:05:03 PM
Fluoranthene	ND	0.30		µg/L	1	4/21/2011 8:05:03 PM
Pyrene	ND	0.30		µg/L	1	4/21/2011 8:05:03 PM
Benz(a)anthracene	0.070	0.070		µg/L	1	4/21/2011 8:05:03 PM
Chrysene	ND	0.20		µg/L	1	4/21/2011 8:05:03 PM
Benzo(b)fluoranthene	ND	0.10		µg/L	1	4/21/2011 8:05:03 PM
Benzo(k)fluoranthene	ND	0.070		µg/L	1	4/21/2011 8:05:03 PM
Benzo(a)pyrene	ND	0.070		µg/L	1	4/21/2011 8:05:03 PM
Dibenz(a,h)anthracene	ND	0.070		µg/L	1	4/21/2011 8:05:03 PM
Benzo(g,h,i)perylene	ND	0.080		µg/L	1	4/21/2011 8:05:03 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	4/21/2011 8:05:03 PM
Surr: Benzo(e)pyrene	79.8	26.9-103		%REC	1	4/21/2011 8:05:03 PM

EPA METHOD 300.0: ANIONS

Analyst: SRM

Fluoride	1.8	0.50		mg/L	5	4/16/2011 9:25:23 AM
Chloride	19	10		mg/L	20	4/14/2011 8:12:23 AM
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	4/16/2011 8:50:34 AM
Sulfate	220	2.5		mg/L	5	4/14/2011 7:54:58 AM

EPA METHOD 200.7: METALS

Analyst: RAGE

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-04

Client Sample ID: CentralOCD-Close-033011
Collection Date: 4/8/2011
Date Received: 3/31/2011
Matrix: LEACHATE

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 200.7: METALS						Analyst: RAGS
Barium	0.39	0.0020		mg/L	1	4/15/2011 4:09:13 PM
Cadmium	ND	0.0020		mg/L	1	4/15/2011 4:09:13 PM
Chromium	ND	0.0060		mg/L	1	4/15/2011 4:09:13 PM
Copper	0.016	0.0060		mg/L	1	4/15/2011 4:09:13 PM
Iron	0.020	0.020		mg/L	1	4/15/2011 4:09:13 PM
Lead	ND	0.0050		mg/L	1	4/15/2011 4:09:13 PM
Manganese	4.5	0.010	*	mg/L	5	4/19/2011 10:38:31 AM
Silver	ND	0.0050		mg/L	1	4/15/2011 4:09:13 PM
Zinc	0.14	0.010		mg/L	1	4/15/2011 4:09:13 PM
EPA METHOD 245.1: MERCURY						Analyst: MBR
Mercury	ND	0.00020		mg/L	1	4/28/2011 12:34:16 PM
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Toluene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Ethylbenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,2,4-Trimethylbenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,3,5-Trimethylbenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,2-Dichloroethane (EDC)	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,2-Dibromoethane (EDB)	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Naphthalene	ND	40		µg/L	20	4/14/2011 5:54:11 AM
1-Methylnaphthalene	ND	80		µg/L	20	4/14/2011 5:54:11 AM
2-Methylnaphthalene	ND	80		µg/L	20	4/14/2011 5:54:11 AM
Acetone	ND	200		µg/L	20	4/14/2011 5:54:11 AM
Bromobenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Bromodichloromethane	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Bromoform	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Bromomethane	ND	60		µg/L	20	4/14/2011 5:54:11 AM
2-Butanone	ND	200		µg/L	20	4/14/2011 5:54:11 AM
Carbon disulfide	ND	200		µg/L	20	4/14/2011 5:54:11 AM
Carbon Tetrachloride	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Chlorobenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Chloroethane	ND	40		µg/L	20	4/14/2011 5:54:11 AM
Chloroform	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Chloromethane	ND	60		µg/L	20	4/14/2011 5:54:11 AM
2-Chlorotoluene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
4-Chlorotoluene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
cis-1,2-DCE	ND	20		µg/L	20	4/14/2011 5:54:11 AM
cis-1,3-Dichloropropene	ND	20		µg/L	20	4/14/2011 5:54:11 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-04

Client Sample ID: CentralOCD-Close-033011
Collection Date: 4/8/2011
Date Received: 3/31/2011
Matrix: LEACHATE

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	4/14/2011 5:54:11 AM
Dibromochloromethane	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Dibromomethane	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,2-Dichlorobenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,3-Dichlorobenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,4-Dichlorobenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Dichlorodifluoromethane	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,1-Dichloroethane	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,1-Dichloroethene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,2-Dichloropropane	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,3-Dichloropropane	ND	20		µg/L	20	4/14/2011 5:54:11 AM
2,2-Dichloropropane	ND	40		µg/L	20	4/14/2011 5:54:11 AM
1,1-Dichloropropene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Hexachlorobutadiene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
2-Hexanone	ND	200		µg/L	20	4/14/2011 5:54:11 AM
Isopropylbenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
4-Isopropyltoluene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
4-Methyl-2-pentanone	ND	200		µg/L	20	4/14/2011 5:54:11 AM
Methylene Chloride	ND	60		µg/L	20	4/14/2011 5:54:11 AM
n-Butylbenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
n-Propylbenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
sec-Butylbenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Styrene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
tert-Butylbenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	4/14/2011 5:54:11 AM
Tetrachloroethane (PCE)	ND	20		µg/L	20	4/14/2011 5:54:11 AM
trans-1,2-DCE	ND	20		µg/L	20	4/14/2011 5:54:11 AM
trans-1,3-Dichloropropene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,2,3-Trichlorobenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,2,4-Trichlorobenzene	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,1,1-Trichloroethane	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,1,2-Trichloroethane	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Trichloroethane (TCE)	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Trichlorofluoromethane	ND	20		µg/L	20	4/14/2011 5:54:11 AM
1,2,3-Trichloropropane	ND	40		µg/L	20	4/14/2011 5:54:11 AM
Vinyl chloride	ND	20		µg/L	20	4/14/2011 5:54:11 AM
Xylenes, Total	ND	30		µg/L	20	4/14/2011 5:54:11 AM
Surr: 1,2-Dichloroethane-d4	97.3	65.8-138		%REC	20	4/14/2011 5:54:11 AM
Surr: 4-Bromofluorobenzene	111	72.7-128		%REC	20	4/14/2011 5:54:11 AM
Surr: Dibromofluoromethane	103	69-135		%REC	20	4/14/2011 5:54:11 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT:	Western Refining Southwest, Gallup	Client Sample ID:	CentralOCD-Close-033011
Lab Order:	1104008	Collection Date:	4/8/2011
Project:	Gallup OCD Landfarms	Date Received:	3/31/2011
Lab ID:	1104008-04	Matrix:	LEACHATE

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES Analyst: MMS						
Surr: Toluene-d8	105	86.1-134		%REC	20	4/14/2011 5:54:11 AM
TOTAL PHENOLICS Analyst: SCC						
Phenolics, Total Recoverable	6.9	2.5		µg/L	1	4/14/2011
SM4500-H+B: PH Analyst: LJB						
pH	6.52	0.100	H	pH units	1	4/14/2011 6:45:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS						
Total Dissolved Solids	8650	100		mg/L	1	4/14/2011 8:54:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
Q Quality recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-05

Client Sample ID: NEOCD-Close-033011
Collection Date: 4/8/2011
Date Received: 3/31/2011
Matrix: LEACHATE

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	6.3	5.0		mg/L	10	4/12/2011 3:21:20 PM
Sulfate	44	0.50		mg/L	1	4/11/2011 3:03:31 PM
EPA METHOD 200.7: METALS						Analyst: ELS
Barium	0.81	0.010		mg/L	5	4/19/2011 10:47:26 AM
Chromium	ND	0.0060		mg/L	1	4/15/2011 5:00:24 PM
Iron	ND	0.020		mg/L	1	4/15/2011 5:00:24 PM
Lead	ND	0.0050		mg/L	1	4/15/2011 5:00:24 PM
Manganese	6.0	0.020	*	mg/L	10	4/19/2011 10:43:30 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-06

Client Sample ID: EB-033011
Collection Date: 3/30/2011 6:00:00 PM
Date Received: 3/31/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Toluene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Ethylbenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Naphthalene	ND	2.0		µg/L	1	4/6/2011 4:57:36 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	4/6/2011 4:57:36 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	4/6/2011 4:57:36 PM
Acetone	ND	10		µg/L	1	4/6/2011 4:57:36 PM
Bromobenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Bromodichloromethane	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Bromoform	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Bromomethane	ND	3.0		µg/L	1	4/6/2011 4:57:36 PM
2-Butanone	ND	10		µg/L	1	4/6/2011 4:57:36 PM
Carbon disulfide	ND	10		µg/L	1	4/6/2011 4:57:36 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Chlorobenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Chloroethane	ND	2.0		µg/L	1	4/6/2011 4:57:36 PM
Chloroform	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Chloromethane	ND	3.0		µg/L	1	4/6/2011 4:57:36 PM
2-Chlorotoluene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
4-Chlorotoluene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
cis-1,2-DCE	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/6/2011 4:57:36 PM
Dibromochloromethane	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Dibromomethane	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/6/2011 4:57:36 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-06

Client Sample ID: EB-033011
Collection Date: 3/30/2011 6:00:00 PM
Date Received: 3/31/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
2-Hexanone	ND	10		µg/L	1	4/6/2011 4:57:36 PM
Isopropylbenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/6/2011 4:57:36 PM
Methylene Chloride	ND	3.0		µg/L	1	4/6/2011 4:57:36 PM
n-Butylbenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
n-Propylbenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
sec-Butylbenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Styrene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
tert-Butylbenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/6/2011 4:57:36 PM
Tetrachloroethane (PCE)	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
trans-1,2-DCE	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/6/2011 4:57:36 PM
Vinyl chloride	ND	1.0		µg/L	1	4/6/2011 4:57:36 PM
Xylenes, Total	ND	1.5		µg/L	1	4/6/2011 4:57:36 PM
Surr: 1,2-Dichloroethane-d4	94.2	65.8-138		%REC	1	4/6/2011 4:57:36 PM
Surr: 4-Bromofluorobenzene	112	72.7-128		%REC	1	4/6/2011 4:57:36 PM
Surr: Dibromofluoromethane	99.7	69-135		%REC	1	4/6/2011 4:57:36 PM
Surr: Toluene-d8	101	86.1-134		%REC	1	4/6/2011 4:57:36 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank,
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-07

Client Sample ID: FB-033-11
Collection Date: 3/30/2011 6:05:00 PM
Date Received: 3/31/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Toluene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Ethylbenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Naphthalene	ND	2.0		µg/L	1	4/6/2011 6:22:15 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	4/6/2011 6:22:15 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	4/6/2011 6:22:15 PM
Acetone	ND	10		µg/L	1	4/6/2011 6:22:15 PM
Bromobenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Bromodichloromethane	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Bromoform	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Bromomethane	ND	3.0		µg/L	1	4/6/2011 6:22:15 PM
2-Butanone	ND	10		µg/L	1	4/6/2011 6:22:15 PM
Carbon disulfide	ND	10		µg/L	1	4/6/2011 6:22:15 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Chlorobenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Chloroethane	ND	2.0		µg/L	1	4/6/2011 6:22:15 PM
Chloroform	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Chloromethane	ND	3.0		µg/L	1	4/6/2011 6:22:15 PM
2-Chlorotoluene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
4-Chlorotoluene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
cis-1,2-DCE	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/6/2011 6:22:15 PM
Dibromochloromethane	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Dibromomethane	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/6/2011 6:22:15 PM
1,1-Dichloropropane	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-07

Client Sample ID: FB-033-11
Collection Date: 3/30/2011 6:05:00 PM
Date Received: 3/31/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
2-Hexanone	ND	10		µg/L	1	4/6/2011 6:22:15 PM
Isopropylbenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/6/2011 6:22:15 PM
Methylene Chloride	ND	3.0		µg/L	1	4/6/2011 6:22:15 PM
n-Butylbenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
n-Propylbenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
sec-Butylbenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Styrene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
tert-Butylbenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/6/2011 6:22:15 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
trans-1,2-DCE	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/6/2011 6:22:15 PM
Vinyl chloride	ND	1.0		µg/L	1	4/6/2011 6:22:15 PM
Xylenes, Total	ND	1.5		µg/L	1	4/6/2011 6:22:15 PM
Surr: 1,2-Dichloroethane-d4	101	65.8-138		%REC	1	4/6/2011 6:22:15 PM
Surr: 4-Bromofluorobenzene	107	72.7-128		%REC	1	4/6/2011 6:22:15 PM
Surr: Dibromofluoromethane	108	69-135		%REC	1	4/6/2011 6:22:15 PM
Surr: Toluene-d8	105	86.1-134		%REC	1	4/6/2011 6:22:15 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-08

Client Sample ID: Central OCD-01-033111
Collection Date: 3/31/2011 10:30:00 AM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/7/2011 8:45:22 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/7/2011 8:45:22 AM
Surr: DNOP	99.2	81.8-129		%REC	1	4/7/2011 8:45:22 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/6/2011 12:46:03 PM
Surr: BFB	103	89.7-125		%REC	1	4/6/2011 12:46:03 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/6/2011 12:46:03 PM
Toluene	ND	0.050		mg/Kg	1	4/6/2011 12:46:03 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/6/2011 12:46:03 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/6/2011 12:46:03 PM
Surr: 4-Bromofluorobenzene	117	85.3-139		%REC	1	4/6/2011 12:46:03 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	810	30		mg/Kg	20	4/8/2011 7:00:09 PM
Sulfate	420	30		mg/Kg	20	4/8/2011 7:00:09 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Barium	240	1.0		mg/Kg	10	4/5/2011 1:36:47 PM
Chromium	17	1.5		mg/Kg	5	4/5/2011 1:34:04 PM
Copper	5.4	1.5		mg/Kg	5	4/5/2011 1:34:04 PM
Iron	16000	500		mg/Kg	500	4/5/2011 1:39:24 PM
Lead	6.4	1.3		mg/Kg	5	4/5/2011 1:34:04 PM
Manganese	420	1.0		mg/Kg	10	4/5/2011 1:36:47 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-09

Client Sample ID: Central OCD-02-033111
Collection Date: 3/31/2011 11:00:00 AM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/7/2011 9:19:43 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/7/2011 9:19:43 AM
Surr: DNOP	106	81.8-129		%REC	1	4/7/2011 9:19:43 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/6/2011 1:15:01 PM
Surr: BFB	103	89.7-125		%REC	1	4/6/2011 1:15:01 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/6/2011 1:15:01 PM
Toluene	ND	0.050		mg/Kg	1	4/6/2011 1:15:01 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/6/2011 1:15:01 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/6/2011 1:15:01 PM
Surr: 4-Bromofluorobenzene	121	85.3-139		%REC	1	4/6/2011 1:15:01 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	300	30		mg/Kg	20	4/8/2011 7:34:59 PM
Sulfate	290	30		mg/Kg	20	4/8/2011 7:34:59 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Barium	210	0.50		mg/Kg	5	4/5/2011 1:42:04 PM
Chromium	16	1.5		mg/Kg	5	4/5/2011 1:42:04 PM
Copper	4.4	1.5		mg/Kg	5	4/5/2011 1:42:04 PM
Iron	20000	500		mg/Kg	500	4/5/2011 1:49:07 PM
Lead	6.0	1.3		mg/Kg	5	4/5/2011 1:42:04 PM
Manganese	450	1.0		mg/Kg	10	4/5/2011 1:46:28 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-10

Client Sample ID: Central OCD-03-033111
Collection Date: 3/31/2011 11:35:00 AM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/7/2011 9:53:54 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/7/2011 9:53:54 AM
Surr: DNOP	96.3	81.8-129		%REC	1	4/7/2011 9:53:54 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/6/2011 1:43:57 PM
Surr: BFB	102	89.7-125		%REC	1	4/6/2011 1:43:57 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/6/2011 1:43:57 PM
Toluene	ND	0.050		mg/Kg	1	4/6/2011 1:43:57 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/6/2011 1:43:57 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/6/2011 1:43:57 PM
Surr: 4-Bromofluorobenzene	122	85.3-139		%REC	1	4/6/2011 1:43:57 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	200	30		mg/Kg	20	4/8/2011 8:09:49 PM
Sulfate	510	30		mg/Kg	20	4/8/2011 8:09:49 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGE
Barium	410	1.0		mg/Kg	10	4/5/2011 2:02:38 PM
Chromium	15	1.5		mg/Kg	5	4/5/2011 1:59:53 PM
Copper	5.5	1.5		mg/Kg	5	4/5/2011 1:59:53 PM
Iron	17000	500		mg/Kg	500	4/5/2011 2:05:15 PM
Lead	7.1	1.3		mg/Kg	5	4/5/2011 1:59:53 PM
Manganese	430	1.0		mg/Kg	10	4/5/2011 2:02:38 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
POL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-11

Client Sample ID: Central OCD-04-033111
Collection Date: 3/31/2011 11:20:00 AM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/6/2011 4:50:32 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/6/2011 4:50:32 PM
Surr: DNOP	84.9	81.8-129		%REC	1	4/6/2011 4:50:32 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/6/2011 2:12:53 PM
Surr: BFB	104	89.7-125		%REC	1	4/6/2011 2:12:53 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/6/2011 2:12:53 PM
Toluene	ND	0.050		mg/Kg	1	4/6/2011 2:12:53 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/6/2011 2:12:53 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/6/2011 2:12:53 PM
Surr: 4-Bromofluorobenzene	123	85.3-139		%REC	1	4/6/2011 2:12:53 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	480	30		mg/Kg	20	4/8/2011 8:44:38 PM
Sulfate	350	30		mg/Kg	20	4/8/2011 8:44:38 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Barium	310	1.0		mg/Kg	10	4/5/2011 2:10:35 PM
Chromium	16	1.5		mg/Kg	5	4/5/2011 2:07:50 PM
Copper	4.6	1.5		mg/Kg	5	4/5/2011 2:07:50 PM
Iron	20000	500		mg/Kg	500	4/5/2011 2:13:10 PM
Lead	5.0	1.3		mg/Kg	5	4/5/2011 2:07:50 PM
Manganese	420	1.0		mg/Kg	10	4/5/2011 2:10:35 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-12

Client Sample ID: NE OCD-01-033111
Collection Date: 3/31/2011 8:45:00 AM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	240	30		mg/Kg	20	4/8/2011 9:54:16 PM
Sulfate	580	30		mg/Kg	20	4/8/2011 9:54:16 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Barium	290	1.0		mg/Kg	10	4/5/2011 2:20:06 PM
Chromium	11	1.5		mg/Kg	5	4/5/2011 2:15:46 PM
Iron	16000	500		mg/Kg	500	4/5/2011 2:22:42 PM
Lead	5.8	1.3		mg/Kg	5	4/5/2011 2:15:46 PM
Manganese	400	1.0		mg/Kg	10	4/5/2011 2:20:06 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-13

Client Sample ID: NE OCD-02-033111
Collection Date: 3/31/2011 9:00:00 AM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	130	7.5		mg/Kg	5	4/8/2011 10:11:41 PM
Sulfate	290	7.5		mg/Kg	5	4/8/2011 10:11:41 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Barium	350	1.0		mg/Kg	10	4/5/2011 2:40:13 PM
Chromium	13	1.5		mg/Kg	5	4/5/2011 2:37:29 PM
Iron	20000	500		mg/Kg	500	4/5/2011 2:42:52 PM
Lead	7.1	1.3		mg/Kg	5	4/5/2011 2:37:29 PM
Manganese	480	1.0		mg/Kg	10	4/5/2011 2:40:13 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-14

Client Sample ID: NE OCD-03-033111
Collection Date: 3/31/2011 9:25:00 AM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	290	30		mg/Kg	20	4/8/2011 11:03:56 PM
Sulfate	230	7.5		mg/Kg	5	4/8/2011 10:46:31 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Barium	400	1.0		mg/Kg	10	4/5/2011 3:31:43 PM
Chromium	14	1.5		mg/Kg	5	4/5/2011 3:28:57 PM
Iron	17000	500		mg/Kg	500	4/5/2011 3:34:19 PM
Lead	6.7	1.3		mg/Kg	5	4/5/2011 3:28:57 PM
Manganese	410	1.0		mg/Kg	10	4/5/2011 3:31:43 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-15

Client Sample ID: NE OCD-04-033111
Collection Date: 3/31/2011 9:40:00 AM
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	110	30		mg/Kg	20	4/8/2011 11:21:21 PM
Sulfate	490	30		mg/Kg	20	4/8/2011 11:21:21 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Barium	440	1.0		mg/Kg	10	4/5/2011 2:48:11 PM
Chromium	14	1.5		mg/Kg	5	4/5/2011 2:45:26 PM
Iron	18000	500		mg/Kg	500	4/5/2011 2:50:46 PM
Lead	6.3	1.3		mg/Kg	5	4/5/2011 2:45:26 PM
Manganese	540	50		mg/Kg	500	4/5/2011 2:50:46 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-16

Client Sample ID: Trip Blank
Collection Date:
Date Received: 3/31/2011
Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Toluene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Ethylbenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Naphthalene	ND	2.0		µg/L	1	4/6/2011 6:50:34 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	4/6/2011 6:50:34 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	4/6/2011 6:50:34 PM
Acetone	ND	10		µg/L	1	4/6/2011 6:50:34 PM
Bromobenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Bromodichloromethane	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Bromoform	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Bromomethane	ND	3.0		µg/L	1	4/6/2011 6:50:34 PM
2-Butanone	ND	10		µg/L	1	4/6/2011 6:50:34 PM
Carbon disulfide	ND	10		µg/L	1	4/6/2011 6:50:34 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Chlorobenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Chloroethane	ND	2.0		µg/L	1	4/6/2011 6:50:34 PM
Chloroform	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Chloromethane	ND	3.0		µg/L	1	4/6/2011 6:50:34 PM
2-Chlorotoluene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
4-Chlorotoluene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
cis-1,2-DCE	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/6/2011 6:50:34 PM
Dibromochloromethane	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Dibromomethane	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/6/2011 6:50:34 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-16

Client Sample ID: Trip Blank
Collection Date:
Date Received: 3/31/2011
Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
2-Hexanone	ND	10		µg/L	1	4/6/2011 6:50:34 PM
Isopropylbenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/6/2011 6:50:34 PM
Methylene Chloride	ND	3.0		µg/L	1	4/6/2011 6:50:34 PM
n-Butylbenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
n-Propylbenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
sec-Butylbenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Styrene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
tert-Butylbenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/6/2011 6:50:34 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
trans-1,2-DCE	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/6/2011 6:50:34 PM
Vinyl chloride	ND	1.0		µg/L	1	4/6/2011 6:50:34 PM
Xylenes, Total	ND	1.5		µg/L	1	4/6/2011 6:50:34 PM
Surr: 1,2-Dichloroethane-d4	105	65.8-138		%REC	1	4/6/2011 6:50:34 PM
Surr: 4-Bromofluorobenzene	108	72.7-128		%REC	1	4/6/2011 6:50:34 PM
Surr: Dibromofluoromethane	105	69-135		%REC	1	4/6/2011 6:50:34 PM
Surr: Toluene-d8	105	86.1-134		%REC	1	4/6/2011 6:50:34 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-17

Client Sample ID: BD-02-033111
Collection Date: 3/31/2011
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	220	30		mg/Kg	20	4/8/2011 11:58:11 PM
Sulfate	640	30		mg/Kg	20	4/8/2011 11:58:11 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGE
Barium	290	1.0		mg/Kg	10	4/5/2011 2:57:52 PM
Chromium	12	1.5		mg/Kg	5	4/5/2011 2:55:07 PM
Iron	17000	500		mg/Kg	500	4/5/2011 3:00:30 PM
Lead	6.5	1.3		mg/Kg	5	4/5/2011 2:55:07 PM
Manganese	400	1.0		mg/Kg	10	4/5/2011 2:57:52 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 04-May-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1104008
Project: Gallup OCD Landfarms
Lab ID: 1104008-18

Client Sample ID: BD-01-033111
Collection Date: 3/31/2011
Date Received: 3/31/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	260	100		mg/Kg	10	4/6/2011 8:15:20 PM
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	4/6/2011 8:15:20 PM
Surr: DNOP	0	81.8-129	S	%REC	10	4/6/2011 8:15:20 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/6/2011 3:39:33 PM
Surr: BFB	104	89.7-125		%REC	1	4/6/2011 3:39:33 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/6/2011 3:39:33 PM
Toluene	ND	0.050		mg/Kg	1	4/6/2011 3:39:33 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/6/2011 3:39:33 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/6/2011 3:39:33 PM
Surr: 4-Bromofluorobenzene	119	85.3-139		%REC	1	4/6/2011 3:39:33 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	820	30		mg/Kg	20	4/9/2011 2:15:31 AM
Sulfate	360	30		mg/Kg	20	4/9/2011 2:15:31 AM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Barium	300	1.0		mg/Kg	10	4/5/2011 3:14:02 PM
Chromium	18	1.5		mg/Kg	5	4/5/2011 3:03:08 PM
Copper	5.4	1.5		mg/Kg	5	4/5/2011 3:03:08 PM
Iron	18000	500		mg/Kg	500	4/5/2011 3:16:40 PM
Lead	5.9	1.3		mg/Kg	5	4/5/2011 3:03:08 PM
Manganese	430	1.0		mg/Kg	10	4/5/2011 3:14:02 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
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

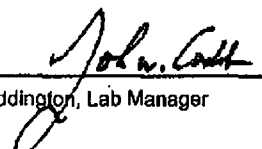
Batch #: 110405030
Project Name: 1104008

Analytical Results Report

Sample Number	110405030-001	Sampling Date	3/30/2011	Date/Time Received	4/5/2011 12:20 PM
Client Sample ID	1104008-01B / BG-NE-033011	Sampling Time	12:10 PM		
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.35	4/13/2011	JTT	EPA 335.4	
%moisture	18.3	Percent		4/13/2011	CRW	%moisture	

Authorized Signature


John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E67883; ID:ID00013; IN:C-ID-01; KY:80142; MT:Cert0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA-WA00169; CA:Cert2632; ID-WA00169; WA:C585; MT:Cert0085

Friday, April 15, 2011

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

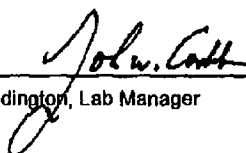
Batch #: 110414047
Project Name: 1104008

Analytical Results Report

Sample Number	110414047-001	Sampling Date	4/8/2011	Date/Time Received	4/14/2011 12:10 PM
Client Sample ID	1104008-04H / CENTRALOCD-CLOSE-033011			Extraction Date	
Matrix	Water			Sampling Time	
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/L	0.01	4/20/2011	JTT	EPA 335.4	

Authorized Signature


John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 110414047
Project Name: 1104008

Analytical Results Report Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Cyanide	0.474	mg/L	0.5	94.8	80-120	4/20/2011	4/20/2011

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
110408031-007	Cyanide	ND	0.474	mg/L	0.5	94.8	70-130	4/20/2011	4/20/2011

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Cyanide	0.487	mg/L	0.5	97.4	2.7	0-25	4/20/2011	4/20/2011

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Cyanide	ND	mg/L	0.01	4/20/2011	4/20/2011

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA1D00013; AZ:0701; CO:1D00013; FL(NELAP):E87893; ID:1D00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM:1D00013; OR:1D200001-002; WA:C695
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C586; MT:Cert0095

Wednesday, April 27, 2011

Page 1 of 1



Pace Analytical Services, Inc.
1838 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-6600

May 03, 2011

Ms. Anne Thorne
Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109

RE: Project: 1104008
Pace Project No.: 3044432

Dear Ms. Thorne:

Enclosed are the analytical results for sample(s) received by the laboratory on April 05, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAP standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins

jacquelyn.collins@pacelabs.com
Project Manager

Enclosures

cc: Kacey Gutierrez, Hall Environmental Analysis La

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 1104008
Pace Project No.: 3044432

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA
15601

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/NELAC Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/NELAC Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/NELAC Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/NELAC Certification #: LA080002

Louisiana/NELAC Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/NELAC Certification #: 2976

New Jersey/NELAC Certification #: PA 051

New Mexico Certification

New York/NELAC Certification #: 10888

North Carolina Certification #: 42706

Oregon/NELAC Certification #: PA200002

Pennsylvania/NELAC Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/NELAC Certification #: T104704188-09 TX

Utah/NELAC Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Washington Certification #: C1941

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 1104008
Pace Project No.: 3044432

Lab ID	Sample ID	Matrix	Date Collected	Date Received
3044432001	1104008-01C	Solid	03/30/11 12:10	04/05/11 09:45
3044432002	1104008-08B	Solid	03/31/11 10:30	04/05/11 09:45
3044432003	1104008-09B	Solid	03/31/11 11:00	04/05/11 09:45
3044432004	1104008-10B	Solid	03/31/11 11:35	04/05/11 09:45
3044432005	1104008-11B	Solid	03/31/11 11:20	04/05/11 09:45
3044432006	1104008-12B	Solid	03/31/11 08:45	04/05/11 09:45
3044432007	1104008-13B	Solid	03/31/11 09:00	04/05/11 09:45
3044432008	1104008-14B	Solid	03/31/11 09:25	04/05/11 09:45
3044432009	1104008-15B	Solid	03/31/11 09:40	04/05/11 09:45
3044432010	1104008-17B	Solid	03/31/11 00:01	04/05/11 09:45
3044432011	1104008-18B	Solid	03/31/11 00:01	04/05/11 09:45

REPORT OF LABORATORY ANALYSIS

Page 3 of 10

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SAMPLE ANALYTE COUNT

Project: 1104008
Pace Project No.: 3044432

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3044432001	1104008-01C	EPA 901.1m	AEH	2	PASI-PA
3044432002	1104008-08B	EPA 901.1m	AEH	2	PASI-PA
3044432003	1104008-09B	EPA 901.1m	AEH	2	PASI-PA
3044432004	1104008-10B	EPA 901.1m	AEH	2	PASI-PA
3044432005	1104008-11B	EPA 901.1m	AEH	2	PASI-PA
3044432006	1104008-12B	EPA 901.1m	AEH	2	PASI-PA
3044432007	1104008-13B	EPA 901.1m	AEH	2	PASI-PA
3044432008	1104008-14B	EPA 901.1m	AEH	2	PASI-PA
3044432009	1104008-15B	EPA 901.1m	AEH	2	PASI-PA
3044432010	1104008-17B	EPA 901.1m	AEH	2	PASI-PA
3044432011	1104008-18B	EPA 901.1m	AEH	2	PASI-PA

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1838 Roseytown Road - Suites 2,3,4
Greensburg, PA 16801
(724)850-5600

PROJECT NARRATIVE

Project: 1104008
Pace Project No.: 3044432

Method: EPA 901.1m
Description: 901.1 Gamma Spec
Client: Hall Environmental Analysis Laboratory
Date: May 03, 2011

General Information:

11 samples were analyzed for EPA 901.1m. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

Page 5 of 10

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Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-8600

ANALYTICAL RESULTS

Project: 1104008
Pace Project No.: 3044432

Sample: 1104008-01C Lab ID: 3044432001 Collected: 03/30/11 12:10 Received: 04/05/11 09:45 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	1.29 ± 0.182 (0.0340)	pCi/g	05/02/11 10:11	13982-63-3	
Radium-228	EPA 901.1m	1.40 ± 0.262 (0.0580)	pCi/g	05/02/11 10:11	15262-20-1	

Sample: 1104008-08B Lab ID: 3044432002 Collected: 03/31/11 10:30 Received: 04/05/11 09:45 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	1.19 ± 0.259 (0.0720)	pCi/g	04/30/11 10:08	13982-63-3	
Radium-228	EPA 901.1m	1.69 ± 0.453 (0.120)	pCi/g	04/30/11 10:08	15262-20-1	

Sample: 1104008-09B Lab ID: 3044432003 Collected: 03/31/11 11:00 Received: 04/05/11 09:45 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	0.808 ± 0.188 (0.0390)	pCi/g	04/30/11 10:45	13982-63-3	
Radium-228	EPA 901.1m	0.859 ± 0.349 (0.132)	pCi/g	04/30/11 10:45	15262-20-1	

Sample: 1104008-10B Lab ID: 3044432004 Collected: 03/31/11 11:35 Received: 04/05/11 09:45 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	0.870 ± 0.183 (0.0540)	pCi/g	04/30/11 11:17	13982-63-3	
Radium-228	EPA 901.1m	1.31 ± 0.412 (0.119)	pCi/g	04/30/11 11:17	15262-20-1	

Sample: 1104008-11B Lab ID: 3044432005 Collected: 03/31/11 11:20 Received: 04/05/11 09:45 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	0.764 ± 0.169 (0.0580)	pCi/g	04/30/11 11:48	13982-63-3	
Radium-228	EPA 901.1m	1.83 ± 0.409 (0.0470)	pCi/g	04/30/11 11:48	15262-20-1	

Sample: 1104008-12B Lab ID: 3044432006 Collected: 03/31/11 08:45 Received: 04/05/11 09:45 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	0.973 ± 0.200 (0.0560)	pCi/g	04/30/11 12:21	13982-63-3	
Radium-228	EPA 901.1m	1.18 ± 0.330 (0.0690)	pCi/g	04/30/11 12:21	15262-20-1	

Date: 05/03/2011 12:57 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1104008
Pace Project No.: 3044432

Sample: 1104008-13B Lab ID: 3044432007 Collected: 03/31/11 09:00 Received: 04/05/11 09:45 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	0.967 ± 0.200 (0.0280)	pCi/g	04/30/11 12:53	13982-63-3	
Radium-228	EPA 901.1m	1.33 ± 0.337 (0.0620)	pCi/g	04/30/11 12:53	15262-20-1	

Sample: 1104008-14B Lab ID: 3044432008 Collected: 03/31/11 09:25 Received: 04/05/11 09:45 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	0.866 ± 0.170 (0.0540)	pCi/g	04/30/11 13:25	13982-63-3	
Radium-228	EPA 901.1m	1.58 ± 0.324 (0.0970)	pCi/g	04/30/11 13:25	15262-20-1	

Sample: 1104008-15B Lab ID: 3044432009 Collected: 03/31/11 09:40 Received: 04/05/11 09:45 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	1.10 ± 0.207 (0.0490)	pCi/g	04/30/11 13:59	13982-63-3	
Radium-228	EPA 901.1m	1.33 ± 0.380 (0.116)	pCi/g	04/30/11 13:59	15262-20-1	

Sample: 1104008-17B Lab ID: 3044432010 Collected: 03/31/11 00:01 Received: 04/05/11 09:45 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	1.05 ± 0.227 (0.0460)	pCi/g	04/30/11 14:30	13982-63-3	
Radium-228	EPA 901.1m	0.778 ± 0.294 (0.133)	pCi/g	04/30/11 14:30	15262-20-1	

Sample: 1104008-18B Lab ID: 3044432011 Collected: 03/31/11 00:01 Received: 04/05/11 09:45 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	0.906 ± 0.203 (0.0430)	pCi/g	04/30/11 15:02	13982-63-3	
Radium-228	EPA 901.1m	1.57 ± 0.366 (0.0930)	pCi/g	04/30/11 15:02	15262-20-1	

Date: 05/03/2011 12:57 PM

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(724)850-5800

QUALITY CONTROL DATA

Project: 1104008
Pace Project No.: 3044432

QC Batch: RADC/7943 Analysis Method: EPA 901.1m
QC Batch Method: EPA 901.1m Analysis Description: 901.1 Gamma Spec
Associated Lab Samples: 3044432002, 3044432003, 3044432004, 3044432005, 3044432006, 3044432007, 3044432008, 3044432009, 3044432010, 3044432011

METHOD BLANK: 285224 Matrix: Solid
Associated Lab Samples: 3044432002, 3044432003, 3044432004, 3044432005, 3044432006, 3044432007, 3044432008, 3044432009, 3044432010, 3044432011

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226	-0.029 ± 1.64 (0.0610)	pCi/g	05/02/11 08:49	
Radium-228	0.0190 ± 0.243 (0.145)	pCi/g	05/02/11 08:49	

QUALITY CONTROL DATA

Project: 1104008

Pace Project No.: 3044432

QC Batch: RADC/7987

Analysis Method: EPA 901.1m

QC Batch Method: EPA 901.1m

Analysis Description: 901.1 Gamma Spec

Associated Lab Samples: 3044432001

METHOD BLANK: 286262

Matrix: Solid

Associated Lab Samples: 3044432001

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226	0.0250 ± 0.0310 (0.0250)	pCi/g	05/02/11 11:16	
Radium-228	0.0120 ± 0.0670 (0.0410)	pCi/g	05/02/11 11:16	



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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: 1104008
Pace Project No.: 3044432

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

Hall Environmental Analysis Laboratory, Inc.
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109-4372
TEL: 5053453975 FAX: 5053454107

CHAIN-OF-CUSTODY RECORD

Page 1 of 2

Subcontractor:

Pace Analytical Services, Inc.
1638 Roseytown Rd Ste 2,3,4
Greensburg, PA 15601

TEL: (724) 850-5600
FAX: (724) 850-5601
Acct #:

Project Name: 1104008

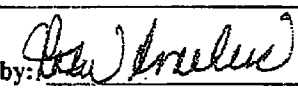
3044432

04-Apr-11

Lab ID	Client Sample ID	Matrix	Collection Date	Bottle Type	Requested Tests
1104008-01C	001 BG-NE-033011	Soil	3/30/2011 12:10:00 PM	8OZGU	SEE BELOW
1104008-08B	002 Central OCD-01-033111	Soil	3/31/2011 10:30:00 AM	4OZGU	SEE BELOW
1104008-09B	003 Central OCD-02-033111	Soil	3/31/2011 11:00:00 AM	4OZGU	SEE BELOW
1104008-10B	004 Central OCD-03-033111	Soil	3/31/2011 11:35:00 AM	4OZGU	SEE BELOW
1104008-11B	005 Central OCD-04-033111	Soil	3/31/2011 11:20:00 AM	4OZGU	SEE BELOW
1104008-12B	006 NE OCD-01-033111	Soil	3/31/2011 8:45:00 AM	4OZGU	SEE BELOW
1104008-13B	007 NE OCD-02-033111	Soil	3/31/2011 9:00:00 AM	4OZGU	SEE BELOW
1104008-14B	008 NE OCD-03-033111	Soil	3/31/2011 9:25:00 AM	4OZGU	SEE BELOW

ANALYTICAL 01C, 08B, 09B, 10B, 11B 12B, 13B, 14B, 15B, 17B, 18B-RADIUM 226/228
COMMENTS:

Standard TAT. Please fax (505) 345-4107 results when completed, or email to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you

Relinquished by: 	Date/Time: 04/04/11 0930	Received by: 	Date/Time: 4/8/11 0945
Relinquished by: _____	Received by: _____	Relinquished by: _____	Received by: _____

Hall Environmental Analysis Laboratory, Inc.

4901 Hawkins NE, Suite D

Albuquerque, New Mexico 87109-4372

TEL: 5053453975

FAX: 5053454107

CHAIN-OF-CUSTODY RECORD

Page 2 of 2

Subcontractor:

Pace Analytical Services, Inc.

1638 Roseytown Rd Ste 2,3,4

Greensburg, PA 15601

TEL: (724) 850-5600

FAX: (724) 850-5601

Acct #:

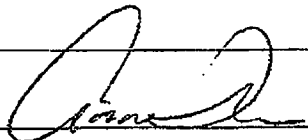
Project Name: 1104008

04-Apr-11

Lab ID	Client Sample ID	Matrix	Collection Date	Bottle Type	Requested Tests
1104008-15B	009 NE OCD-04-033111	Soil	3/31/2011 9:40:00 AM	4OZGU	SEE BELOW
1104008-17B	010 BD-02-033111	Soil	3/31/2011	4OZGU	SEE BELOW
1104008-18B	011 BD-01-033111	Soil	3/31/2011	4OZGU	SEE BELOW

ANALYTICAL 01C, 08B, 09B, 10B, 11B 12B, 13B, 14B, 15B, 17B, 18B-RADIUM 226/228
COMMENTS:

Standard TAT. Please fax (505) 345-4107 results when completed, or email to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you

Relinquished by: 	Date/Time: 04/04/11 0830	Received by: 	Date/Time: 4/5/11 0943
Relinquished by: _____		Received by: _____	

Sample Condition Upon Receipt

Pace Analytical

Client Name:

Hill

Project #

3044432

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

Tracking #: 7946 1060 5123

Custody Seal on Cooler/Box Present: ☒ Yes ☐ No Seals intact: ☒ Yes ☐ No

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Thermometer Used 3 5

Type of Ice: Wet Blue None

☐ Samples on ice, cooling process has begun

Cooler Temperature

N/A

Biological Tissue is Frozen: Yes No

Date and Initial of person examining contents: 4/16/11

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☐ Yes ☒ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No ☐ N/A	6.
Rush Turn Around Time Requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☐ Yes ☒ No ☐ N/A	
Containers intact:	☒ Yes ☐ No ☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12.
-Includes date/time/ID/Analysis Matrix:	3	
All containers needing preservation have been checked.	☐ Yes ☐ No ☒ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☒ Yes ☐ No	Initial when completed: [Signature] Lot # of added preservative:
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	15.
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	16.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

Project Manager Review:

[Signature]

Date:

4/16/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

F-ALLC003-4 23Feb2010



Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

April 30, 2011

Ms. Anne Thorne
Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109

RE: Project: 1104008
Pace Project No.: 3044907

Dear Ms. Thorne:

Enclosed are the analytical results for sample(s) received by the laboratory on April 14, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAP standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins

jacquelyn.collins@pacelabs.com
Project Manager

Enclosures

cc: Kacey Gutierrez, Hall Environmental Analysis La

REPORT OF LABORATORY ANALYSIS

Page 1 of 11

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CERTIFICATIONS

Project: 1104008
Pace Project No.: 3044907

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA
15601
Alabama Certification #: 41690
Arizona Certification #: AZ0734
Arkansas Certification
California/NELAC Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/NELAC Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/NELAC Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/NELAC Certification #: 2976
New Jersey/NELAC Certification #: PA 051
New Mexico Certification
New York/NELAC Certification #: 10888
North Carolina Certification #: 42706
Oregon/NELAC Certification #: PA200002
Pennsylvania/NELAC Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/NELAC Certification #: T104704188-09 TX
Utah/NELAC Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Washington Certification #: C1941
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

Page 2 of 11

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SAMPLE SUMMARY

Project: 1104008
Pace Project No.: 3044907

Lab ID	Sample ID	Matrix	Date Collected	Date Received
3044907001	1104008-04I	Water	04/08/11 00:01	04/14/11 10:30
3044907002	1104008-05D	Water	04/08/11 00:01	04/14/11 10:30
3044907003	1104008-04I-MS	Water	04/08/11 00:01	04/14/11 10:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 1104008
Pace Project No.: 3044907

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3044907001	1104008-04I	EPA 903.1	RMD	1	PASI-PA
		EPA 904.0	DJL	1	PASI-PA
3044907002	1104008-05D	EPA 903.1	RMD	1	PASI-PA
		EPA 904.0	DJL	1	PASI-PA
3044907003	1104008-04I-MS	EPA 903.1	RMD	1	PASI-PA
		EPA 904.0	DJL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

PROJECT NARRATIVE

Project: 1104008
Pace Project No.: 3044907

Method: EPA 903.1
Description: 903.1 Radium 226
Client: Hall Environmental Analysis Laboratory
Date: April 30, 2011

General Information:

3 samples were analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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(724)860-5600

PROJECT NARRATIVE

Project: 1104008
Pace Project No.: 3044907

Method: EPA 904.0
Description: 904.0 Radium 228
Client: Hall Environmental Analysis Laboratory
Date: April 30, 2011

General Information:

3 samples were analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1104008

Pace Project No.: 3044907

Sample: 1104008-04I		Lab ID: 3044907001	Collected: 04/08/11 00:01	Received: 04/14/11 10:30	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 903.1	0.929 ± 0.548 (0.488)	pCi/L	04/28/11 11:57	13982-63-3	
Radium-228	EPA 904.0	1.86 ± 0.688 (0.977)	pCi/L	04/28/11 15:01	15262-20-1	

Sample: 1104008-05D		Lab ID: 3044907002	Collected: 04/08/11 00:01	Received: 04/14/11 10:30	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 903.1	0.746 ± 0.457 (0.423)	pCi/L	04/28/11 11:57	13982-63-3	
Radium-228	EPA 904.0	2.59 ± 0.837 (0.970)	pCi/L	04/28/11 15:02	15262-20-1	

Sample: 1104008-04I-MS		Lab ID: 3044907003	Collected: 04/08/11 00:01	Received: 04/14/11 10:30	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 903.1	0.367 ± 0.421 (0.659)	pCi/L	04/28/11 12:11	13982-63-3	
Radium-228	EPA 904.0	21.1 ± 4.34 (1.34)	pCi/L	04/29/11 12:08	15262-20-1	

Date: 04/30/2011 06:48 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1104008

Pace Project No.: 3044907

QC Batch:	RADC/8043	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
Associated Lab Samples: 3044907001, 3044907002, 3044907003			

METHOD BLANK: 288361 Matrix: Water

Associated Lab Samples: 3044907001, 3044907002, 3044907003

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226	0.112 ± 0.312 (0.604)	pCi/L	04/28/11 10:28	



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1838 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-6600

QUALITY CONTROL DATA

Project: 1104008

Pace Project No.: 3044907

QC Batch: RADC/8099

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Associated Lab Samples: 3044907001, 3044907002

METHOD BLANK: 289569

Matrix: Water

Associated Lab Samples: 3044907001, 3044907002

Parameter	Act ± Uno (MDC)	Units	Analyzed	Qualifiers
Radium-228	0.373 ± 0.453 (0.981)	pCi/L	04/28/11 15:01	

QUALITY CONTROL DATA

Project: 1104008

Pace Project No.: 3044907

QC Batch: RADC/8100

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Associated Lab Samples: 3044907003

METHOD BLANK: 289570

Matrix: Water

Associated Lab Samples: 3044907003

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-228	0.717 ± 0.504 (0.983)	pCi/L	04/29/11 12:11	

QUALIFIERS

Project: 1104008
Pace Project No.: 3044907

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

Hall Environmental Analysis Laboratory, Inc.

4901 Hawkins NE, Suite D

Albuquerque, New Mexico 87109-4372

TEL: 5053453975

FAX: 5053454107

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Subcontractor:

Pace Analytical Services, Inc.
1638 Roseytown Rd Ste 2,3,4
Greensburg, PA 15601

TEL: (724) 850-5600
FAX: (724) 850-5601
Acct #:

Project Name: 1104008

3044907

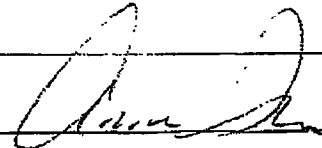
13-Apr-11

Lab ID	Client Sample ID	Matrix	Collection Date	Bottle Type	Requested Tests
1104008-04I	CentralOCD-Close-033011	Leachate	4/8/2011	1LHDPEHNO3	SEE BELOW
1104008-05D	NEOCD-Close-033011	Leachate	4/8/2011	1LHDPEHNO3	SEE BELOW

**ANALYTICAL
COMMENTS:**

LEACHATE SAMPLES-04I, 05D-RADIUM 226.228

Standard TAT. Please fax (505) 345-4107 results when completed, or email to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you

Relinquished by: 	Date/Time: 4/13/11	Received by: 	Date/Time: 4/14/11
Relinquished by: _____	_____	Received by: _____	_____

Hall Environmental Analysis Laboratory, Inc.

4901 Hawkins NE, Suite D

Albuquerque, New Mexico 87109-4372

TEL: 5053453975

FAX: 5053454107

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

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Greensburg, PA 15601

TEL: (724) 850-5600

FAX: (724) 850-5601

Acct #:

Project Name: 1104008

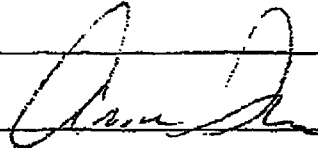
13-Apr-11

Lab ID	Client Sample ID	Matrix	Collection Date	Bottle Type	Requested Tests
1104008-04I	CentralOCD-Close-033011	Leachate	4/8/2011	1LHDPEHNO3	SEE BELOW
1104008-05D	NEOCD-Close-033011	Leachate	4/8/2011	1LHDPEHNO3	SEE BELOW

ANALYTICAL COMMENTS:

Please provide ms 1A 4/11/11
LEACHATE SAMPLES-04I, 05D-RADIUM 226.228

Standard TAT. Please fax (505) 345-4107 results when completed, or email to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you

Relinquished by: 	Date/Time: <u>4/13/11</u>	Received by: _____	Date/Time: _____
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____

Sample Condition Upon Receipt



Client Name: Hall

Project # 3044907

SMB

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 7921648958861

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals Intact: ☐ yes ☐ no

Optional:
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____

Thermometer Used 3 5 Type of Ice: Wet ☒ Blue ☐ None ☐ Samples on Ice, cooling process has begun

Cooler Temperature N/A

Biological Tissue Is Frozen: Yes No

Date and initials of person examining contents: 4/14/11

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☐ Yes ☒ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No ☐ N/A	6.
Rush Turn Around Time Requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☐ Yes ☒ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>Wt</u>		
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☒ No ☐ N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐ Yes ☐ No	Initial when completed <u>Wt</u> Lot # of added preservative <u>REF-005725</u>
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>8mm):	☐ Yes ☐ No ☒ N/A	15.
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	16.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review:

[Signature]

Date: 4/14/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 200.7: Metals

Sample ID: 1104008-04FMSD		MSD				Batch ID: 26407		Analysis Date: 4/15/2011 4:19:13 PM		
Barium	0.8400	mg/L	0.0020	0.5	0.3858	90.8	70	130	1.18	20
Cadmium	0.5051	mg/L	0.0020	0.5	0	101	70	130	0.971	20
Chromium	0.4929	mg/L	0.0060	0.5	0	98.6	70	130	0.923	20
Copper	0.6197	mg/L	0.0060	0.5	0.0158	121	70	130	1.97	20
Iron	0.4834	mg/L	0.020	0.5	0.0202	92.6	70	130	0.621	20
Lead	0.4839	mg/L	0.0050	0.5	0.0036	96.1	70	130	0.899	20
Silver	0.4725	mg/L	0.0050	0.5	0	94.5	70	130	14.9	20
Zinc	0.5843	mg/L	0.010	0.5	0.1389	89.1	70	130	0.934	20

Sample ID: 1104008-05CMSD		MSD				Batch ID: 26389		Analysis Date: 4/15/2011 5:10:31 PM		
Chromium	0.4804	mg/L	0.0060	0.5	0	96.1	70	130	1.85	20
Iron	0.4608	mg/L	0.020	0.5	0	92.2	70	130	1.34	20
Lead	0.4706	mg/L	0.0050	0.5	0.0019	93.7	70	130	1.77	20

Sample ID: 1104008-05CMSD	MSD					Batch ID: 26389	Analysis Date: 4/19/2011 10:59:04 AM				
Barium	1.258	mg/L	0.010	0.5	0.8107	89.4	70	130	1.82	20	

Sample ID: MB-26407	MBLK	Batch ID: 26407	Analysis Date: 4/15/2011 3:52:21 PM
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Barium	ND	mg/L	0.0020								
Cadmium	ND	mg/L	0.0020								
Chromium	ND	mg/L	0.0060								
Copper	ND	mg/L	0.0060								
Iron	ND	mg/L	0.020								
Lead	ND	mg/L	0.0050								
Manganese	ND	mg/L	0.0020								
Silver	ND	mg/L	0.0050								
Zinc	ND	mg/L	0.010								

Sample ID: LCS-26407		LCS				Batch ID: 26407		Analysis Date: 4/15/2011 4:05:32 PM	
Barium	0.4663	mg/L	0.0020	0.5	0	93.3	85	115	
Cadmium	0.4894	mg/L	0.0020	0.5	0	97.9	85	115	
Chromium	0.5049	mg/L	0.0060	0.5	0	101	85	115	
Copper	0.5174	mg/L	0.0060	0.5	0.0026	103	85	115	
Iron	0.4818	mg/L	0.020	0.5	0	96.4	85	115	
Lead	0.4986	mg/L	0.0050	0.5	0	99.7	85	115	
Manganese	0.4867	mg/L	0.0020	0.5	0.0002	97.3	85	115	
Silver	0.4184	mg/L	0.0050	0.5	0.0007	83.5	85	115	S
Zinc	0.4798	mg/L	0.010	0.5	0.0006	95.8	85	115	

Sample ID: 1104008-04FMS		MS				Batch ID: 26407	Analysis Date: 4/15/2011 4:14:24 PM	
Barium	0.8301	mg/L	0.0020	0.5	0.3858	88.9	70	130
Cadmium	0.5002	mg/L	0.0020	0.5	0	100	70	130
Chromium	0.4884	mg/L	0.0060	0.5	0	97.7	70	130
Copper	0.6076	mg/L	0.0060	0.5	0.0158	118	70	130
Iron	0.4804	mg/L	0.020	0.5	0.0202	92.0	70	130
Lead	0.4796	mg/L	0.0050	0.5	0.0036	95.2	70	130
Silver	0.4071	mg/L	0.0050	0.5	0	81.4	70	130
Zinc	0.5789	mg/L	0.010	0.5	0.1389	88.0	70	130

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 200.7: Metals

Sample ID: 1104008-05CMS MS Batch ID: 26389 Analysis Date: 4/15/2011 5:05:40 PM

Chromium	0.4894	mg/L	0.0060	0.5	0	97.9	70	130			
Iron	0.4670	mg/L	0.020	0.5	0	93.4	70	130			
Lead	0.4790	mg/L	0.0050	0.5	0.0019	95.4	70	130			

Sample ID: 1104008-05CMS MS Batch ID: 26389 Analysis Date: 4/19/2011 10:54:11 AM

Barium	1.281	mg/L	0.010	0.5	0.8107	94.0	70	130			
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Method: EPA Method 245.1: Mercury

Sample ID: 1104008-04FMSD MSD Batch ID: 26593 Analysis Date: 4/28/2011 12:37:48 PM

Mercury	0.005195	mg/L	0.00020	0.005	0	104	75	125	1.14	20	
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Sample ID: MBLK-26593 MBLK Batch ID: 26593 Analysis Date: 4/28/2011 12:30:47 PM

Mercury	ND	mg/L	0.00020								
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Sample ID: LCS-26593 LCS Batch ID: 26593 Analysis Date: 4/28/2011 12:32:31 PM

Mercury	0.005076	mg/L	0.00020	0.005	0	102	80	120			
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Sample ID: 1104008-04FMS MS Batch ID: 26593 Analysis Date: 4/28/2011 12:36:02 PM

Mercury	0.005254	mg/L	0.00020	0.005	0	105	75	125			
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Method: EPA Method 300.0: Anions

Sample ID: MB-26291 MBLK Batch ID: 26291 Analysis Date: 4/8/2011 11:09:58 AM

Fluoride	ND	mg/Kg	0.30								
Chloride	ND	mg/Kg	1.5								
Nitrogen, Nitrate (As N)	ND	mg/Kg	0.30								
Sulfate	ND	mg/Kg	1.5								

Sample ID: LCS-26291 LCS Batch ID: 26291 Analysis Date: 4/9/2011 1:05:51 AM

Fluoride	1.595	mg/Kg	0.30	1.5	0	106	90	110			
Chloride	13.73	mg/Kg	1.5	15	0	91.5	90	110			
Nitrogen, Nitrate (As N)	7.165	mg/Kg	0.30	7.5	0	95.5	90	110			
Sulfate	29.06	mg/Kg	1.5	30	0	96.9	90	110			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: 1104008-04GMSD x		MSD				Batch ID: R44750	Analysis Date: 4/14/2011 9:22:02 AM				
Chloride	42.28	mg/L	2.5	25	18.45	95.3	78	107	3.58	20	
Sample ID: MB		MBLK				Batch ID: R44689	Analysis Date: 4/11/2011 2:38:42 PM				
Chloride	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		MBLK				Batch ID: R44698	Analysis Date: 4/12/2011 10:42:44 AM				
Chloride	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		MBLK				Batch ID: R44750	Analysis Date: 4/13/2011 7:08:50 PM				
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		MBLK				Batch ID: R44750	Analysis Date: 4/14/2011 10:31:42 AM				
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		MBLK				Batch ID: R44785	Analysis Date: 4/15/2011 10:29:51 AM				
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20								
Sulfate	ND	mg/L	0.50								
Sample ID: LCS		LCS				Batch ID: R44689	Analysis Date: 4/11/2011 2:51:06 PM				
Chloride	4.882	mg/L	0.50	5	0	97.6	90	110			
Sulfate	9.923	mg/L	0.50	10	0	99.2	90	110			
Sample ID: LCS		LCS				Batch ID: R44698	Analysis Date: 4/12/2011 11:00:09 AM				
Chloride	4.897	mg/L	0.50	5	0	97.9	90	110			
Sulfate	10.40	mg/L	0.50	10	0	104	90	110			
Sample ID: LCS		LCS				Batch ID: R44750	Analysis Date: 4/13/2011 7:26:15 PM				
Fluoride	0.5549	mg/L	0.10	0.5	0	111	90	110			S
Chloride	4.876	mg/L	0.50	5	0	97.5	90	110			
Nitrate (As N)+Nitrite (As N)	3.437	mg/L	0.20	3.5	0	98.2	90	110			
Sulfate	9.824	mg/L	0.50	10	0	98.2	90	110			
Sample ID: LCS		LCS				Batch ID: R44750	Analysis Date: 4/14/2011 10:49:06 AM				
Fluoride	0.5486	mg/L	0.10	0.5	0	110	90	110			
Chloride	4.998	mg/L	0.50	5	0	100	90	110			
Nitrate (As N)+Nitrite (As N)	3.537	mg/L	0.20	3.5	0	101	90	110			
Sulfate	10.14	mg/L	0.50	10	0	101	90	110			
Sample ID: LCS		LCS				Batch ID: R44785	Analysis Date: 4/15/2011 10:47:15 AM				
Fluoride	0.5384	mg/L	0.10	0.5	0	108	90	110			
Chloride	5.087	mg/L	0.50	5	0	102	90	110			
Nitrate (As N)+Nitrite (As N)	3.574	mg/L	0.20	3.5	0	102	90	110			

Qualifiers:

E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 NC Non-Chlorinated
 R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: LCS		LCS				Batch ID: R44785		Analysis Date: 4/15/2011 10:47:15 AM			
Sulfate	10.31	mg/L	0.50	10	0	103	90	110			
Sample ID: 1104008-04GMS x5		MS				Batch ID: R44750		Analysis Date: 4/14/2011 9:04:37 AM			
Chloride	43.83	mg/L	2.5	25	18.45	101	78	107			
Method: Total Phenolics											
Sample ID: MB-26404		MBLK				Batch ID: 26405		Analysis Date: 4/14/2011			
Phenolics, Total Recoverable	ND	µg/L	2.5								
Sample ID: LCS-26404		LCS				Batch ID: 26405		Analysis Date: 4/14/2011			
Phenolics, Total Recoverable	21.20	µg/L	2.5	20	0	106	74.2	128			
Sample ID: LCSD-26404		LCSD				Batch ID: 26405		Analysis Date: 4/14/2011			
Phenolics, Total Recoverable	23.70	µg/L	2.5	20	0	119	74.2	128	11.2	20	
Method: EPA Method 504.1 Modified: EDB											
Sample ID: 1104008-01AMSD		MSD				Batch ID: 26347		Analysis Date: 4/11/2011 8:34:55 PM			
1,2-Dibromoethane	1.121	µg/Kg	0.10	1	0	112	59.361	138.471	4.19	11.2	
Sample ID: MB-26347		MBLK				Batch ID: 26347		Analysis Date: 4/11/2011 7:17:30 PM			
1,2-Dibromoethane	ND	µg/Kg	0.10								
Sample ID: LCS-26347		LCS				Batch ID: 26347		Analysis Date: 4/11/2011 7:33:11 PM			
1,2-Dibromoethane	1.043	µg/Kg	0.10	1	0	104	70	130			
Sample ID: LCSD-26347		LCSD				Batch ID: 26347		Analysis Date: 4/11/2011 7:49:03 PM			
1,2-Dibromoethane	1.041	µg/Kg	0.10	1	0	104	70	130	0.192	20	
Sample ID: 1104008-01AMS		MS				Batch ID: 26347		Analysis Date: 4/11/2011 8:19:45 PM			
1,2-Dibromoethane	1.075	µg/Kg	0.10	1	0	108	59.361	138.471			
Method: EPA Method 8011/504.1: EDB											
Sample ID: 1104008-04CMSD		MSD				Batch ID: 26414		Analysis Date: 4/14/2011 5:07:45 PM			
1,2-Dibromoethane	0.1170	µg/L	0.010	0.1	0	117	55.6	140	1.69	15.5	
Sample ID: MB-26414		MBLK				Batch ID: 26414		Analysis Date: 4/14/2011 4:04:13 PM			
1,2-Dibromoethane	ND	µg/L	0.010								
Sample ID: LCS-26414		LCS				Batch ID: 26414		Analysis Date: 4/14/2011 4:16:54 PM			
1,2-Dibromoethane	0.1060	µg/L	0.010	0.1	0	106	70	130			
Sample ID: LCSD-26414		LCSD				Batch ID: 26414		Analysis Date: 4/14/2011 4:29:40 PM			
1,2-Dibromoethane	0.1090	µg/L	0.010	0.1	0	109	70	130	2.79	20	
Sample ID: 1104008-04CMS		MS				Batch ID: 26414		Analysis Date: 4/14/2011 4:55:06 PM			
1,2-Dibromoethane	0.1190	µg/L	0.010	0.1	0	119	55.6	140			

Qualifiers:

E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 NC Non-Chlorinated
 R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-26252		MBLK				Batch ID: 26252		Analysis Date: 4/6/2011 9:45:01 AM			
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-26252		LCS				Batch ID: 26252		Analysis Date: 4/6/2011 10:19:08 AM			
Diesel Range Organics (DRO)	48.66	mg/Kg	10	50	0	97.3	66.2	120			
Sample ID: LCSD-26252		LCSD				Batch ID: 26252		Analysis Date: 4/6/2011 10:53:19 AM			
Diesel Range Organics (DRO)	45.97	mg/Kg	10	50	0	91.9	66.2	120	5.69	14.3	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: MB-26239		MBLK				Batch ID: 26239		Analysis Date: 4/6/2011 7:59:54 PM			
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-26239		LCS				Batch ID: 26239		Analysis Date: 4/8/2011 6:04:17 PM			
Gasoline Range Organics (GRO)	25.56	mg/Kg	5.0	25	0	102	88.8	124			
Method: EPA Method 8021B: Volatiles											
Sample ID: 1104008-08AMSD		MSD				Batch ID: 26239		Analysis Date: 4/6/2011 7:02:08 PM			
Methyl tert-butyl ether (MTBE)	0.8702	mg/Kg	0.10	1	0.0124	85.8	61.3	215	1.08	19.6	
Benzene	0.8537	mg/Kg	0.050	1	0	85.4	67.2	113	0.149	14.3	
Toluene	0.8997	mg/Kg	0.050	1	0	90.0	62.1	116	3.49	15.9	
Ethylbenzene	0.9394	mg/Kg	0.050	1	0	93.9	67.9	127	5.82	14.4	
Xylenes, Total	2.846	mg/Kg	0.10	3	0	94.9	60.6	134	4.79	12.6	
Sample ID: MB-26239		MBLK				Batch ID: 26239		Analysis Date: 4/6/2011 7:59:54 PM			
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.10								
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: LCS-26239		LCS				Batch ID: 26239		Analysis Date: 4/6/2011 7:31:02 PM			
Methyl tert-butyl ether (MTBE)	0.8871	mg/Kg	0.10	1	0	88.7	65.5	229			
Benzene	0.8715	mg/Kg	0.050	1	0.0041	86.7	83.3	107			
Toluene	0.8887	mg/Kg	0.050	1	0	88.9	74.3	115			
Ethylbenzene	0.9217	mg/Kg	0.050	1	0	92.2	80.9	122			
Xylenes, Total	2.769	mg/Kg	0.10	3	0	92.3	85.2	123			
Sample ID: 1104008-08AMS		MS				Batch ID: 26239		Analysis Date: 4/6/2011 6:33:13 PM			
Methyl tert-butyl ether (MTBE)	0.8796	mg/Kg	0.10	1	0.0124	86.7	61.3	215			
Benzene	0.8524	mg/Kg	0.050	1	0	85.2	67.2	113			
Toluene	0.8688	mg/Kg	0.050	1	0	86.9	62.1	116			
Ethylbenzene	0.8863	mg/Kg	0.050	1	0	88.6	67.9	127			
Xylenes, Total	2.713	mg/Kg	0.10	3	0	90.4	60.6	134			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8082: PCB's											
Sample ID: 1104008-01AMSD		MSD									
Aroclor 1260	0.1042	mg/Kg	0.020	0.125	0	83.4	45	117	5.12	20	
Sample ID: MB-26241		MBLK									
Aroclor 1016	ND	mg/Kg	0.020								
Aroclor 1221	ND	mg/Kg	0.020								
Aroclor 1232	ND	mg/Kg	0.020								
Aroclor 1242	ND	mg/Kg	0.020								
Aroclor 1248	ND	mg/Kg	0.020								
Aroclor 1254	ND	mg/Kg	0.020								
Aroclor 1260	ND	mg/Kg	0.020								
Sample ID: LCS-26241		LCS									
Aroclor 1260	0.06995	mg/Kg	0.020	0.125	0	56.0	42.6	139			
Sample ID: 1104008-01AMS		MS									
Aroclor 1260	0.09900	mg/Kg	0.020	0.125	0	79.2	45	117			

Method: EPA Method 8082: PCB's											
Sample ID: 1104008-04DMSD		MSD									
Aroclor 1016	1.534	µg/L	1.0	5	0	30.7	70	130	4.40	0	S
Aroclor 1260	1.258	µg/L	1.0	5	0	25.2	61.1	129	7.59	12.9	S
Sample ID: MB-26425		MBLK									
Aroclor 1016	ND	µg/L	1.0								
Aroclor 1221	ND	µg/L	1.0								
Aroclor 1232	ND	µg/L	1.0								
Aroclor 1242	ND	µg/L	1.0								
Aroclor 1248	ND	µg/L	1.0								
Aroclor 1254	ND	µg/L	1.0								
Aroclor 1260	ND	µg/L	1.0								
Sample ID: LCS-26425		LCS									
Aroclor 1016	3.510	µg/L	1.0	5	0	70.2	33	126			
Aroclor 1260	3.924	µg/L	1.0	5	0	78.5	40.7	130			
Sample ID: 1104008-04DMS		MS									
Aroclor 1016	1.468	µg/L	1.0	5	0	29.4	70	130			S
Aroclor 1260	1.166	µg/L	1.0	5	0	23.3	61.1	129			S

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: MB-26239

MBLK

Batch ID: 26239 Analysis Date: 4/7/2011 1:53:36 PM

Benzene	ND	mg/Kg	0.050
Toluene	ND	mg/Kg	0.050
Ethylbenzene	ND	mg/Kg	0.050
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.050
1,2,4-Trimethylbenzene	ND	mg/Kg	0.050
1,3,5-Trimethylbenzene	ND	mg/Kg	0.050
1,2-Dichloroethane (EDC)	ND	mg/Kg	0.050
1,2-Dibromoethane (EDB)	ND	mg/Kg	0.050
Naphthalene	ND	mg/Kg	0.10
1-Methylnaphthalene	ND	mg/Kg	0.20
2-Methylnaphthalene	ND	mg/Kg	0.20
Acetone	ND	mg/Kg	0.75
Bromobenzene	ND	mg/Kg	0.050
Bromodichloromethane	ND	mg/Kg	0.050
Bromoform	ND	mg/Kg	0.050
Bromomethane	ND	mg/Kg	0.15
2-Butanone	ND	mg/Kg	0.50
Carbon disulfide	ND	mg/Kg	0.50
Carbon tetrachloride	ND	mg/Kg	0.10
Chlorobenzene	ND	mg/Kg	0.050
Chloroethane	ND	mg/Kg	0.10
Chloroform	ND	mg/Kg	0.050
Chloromethane	ND	mg/Kg	0.15
2-Chlorotoluene	ND	mg/Kg	0.050
4-Chlorotoluene	ND	mg/Kg	0.050
cis-1,2-DCE	ND	mg/Kg	0.050
cis-1,3-Dichloropropene	ND	mg/Kg	0.050
1,2-Dibromo-3-chloropropane	ND	mg/Kg	0.10
Dibromochloromethane	ND	mg/Kg	0.050
Dibromomethane	ND	mg/Kg	0.10
1,2-Dichlorobenzene	ND	mg/Kg	0.050
1,3-Dichlorobenzene	ND	mg/Kg	0.050
1,4-Dichlorobenzene	ND	mg/Kg	0.050
Dichlorodifluoromethane	ND	mg/Kg	0.050
1,1-Dichloroethane	ND	mg/Kg	0.10
1,1-Dichloroethene	ND	mg/Kg	0.050
1,2-Dichloropropane	ND	mg/Kg	0.050
1,3-Dichloropropane	ND	mg/Kg	0.050
2,2-Dichloropropane	ND	mg/Kg	0.10
1,1-Dichloropropene	ND	mg/Kg	0.10
Hexachlorobutadiene	ND	mg/Kg	0.10
2-Hexanone	ND	mg/Kg	0.50
Isopropylbenzene	ND	mg/Kg	0.050
4-Isopropyltoluene	ND	mg/Kg	0.050

Qualifiers:

E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 NC Non-Chlorinated
 R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: MB-26239

MBLK

Batch ID: 26239 Analysis Date: 4/7/2011 1:53:36 PM

4-Methyl-2-pentanone	ND	mg/Kg	0.50
Methylene chloride	ND	mg/Kg	0.15
n-Butylbenzene	ND	mg/Kg	0.050
n-Propylbenzene	ND	mg/Kg	0.050
sec-Butylbenzene	ND	mg/Kg	0.050
Styrene	ND	mg/Kg	0.050
tert-Butylbenzene	ND	mg/Kg	0.050
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.050
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.050
Tetrachloroethane (PCE)	ND	mg/Kg	0.050
trans-1,2-DCE	ND	mg/Kg	0.050
trans-1,3-Dichloropropene	ND	mg/Kg	0.050
1,2,3-Trichlorobenzene	ND	mg/Kg	0.10
1,2,4-Trichlorobenzene	ND	mg/Kg	0.050
1,1,1-Trichloroethane	ND	mg/Kg	0.050
1,1,2-Trichloroethane	ND	mg/Kg	0.050
Trichloroethene (TCE)	ND	mg/Kg	0.050
Trichlorofluoromethane	ND	mg/Kg	0.050
1,2,3-Trichloropropane	ND	mg/Kg	0.10
Vinyl chloride	ND	mg/Kg	0.050
Xylenes, Total	ND	mg/Kg	0.10

Sample ID: b2

MBLK

Batch ID: R44744 Analysis Date: 4/13/2011 12:10:41 PM

Benzene	ND	mg/Kg	0.050
Toluene	ND	mg/Kg	0.050
Ethylbenzene	ND	mg/Kg	0.050
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.050
1,2,4-Trimethylbenzene	ND	mg/Kg	0.050
1,3,5-Trimethylbenzene	ND	mg/Kg	0.050
1,2-Dichloroethane (EDC)	ND	mg/Kg	0.050
1,2-Dibromoethane (EDB)	ND	mg/Kg	0.050
Naphthalene	ND	mg/Kg	0.10
1-Methylnaphthalene	ND	mg/Kg	0.20
2-Methylnaphthalene	ND	mg/Kg	0.20
Acetone	ND	mg/Kg	0.75
Bromobenzene	ND	mg/Kg	0.050
Bromodichloromethane	ND	mg/Kg	0.050
Bromoform	ND	mg/Kg	0.050
Bromomethane	ND	mg/Kg	0.15
2-Butanone	ND	mg/Kg	0.50
Carbon disulfide	ND	mg/Kg	0.50
Carbon tetrachloride	ND	mg/Kg	0.10
Chlorobenzene	ND	mg/Kg	0.050
Chloroethane	ND	mg/Kg	0.10
Chloroform	ND	mg/Kg	0.050

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: b2

MBLK

Batch ID: R44744 Analysis Date: 4/13/2011 12:10:41 PM

Chloromethane	ND	mg/Kg	0.15
2-Chlorotoluene	ND	mg/Kg	0.050
4-Chlorotoluene	ND	mg/Kg	0.050
cis-1,2-DCE	ND	mg/Kg	0.050
cis-1,3-Dichloropropene	ND	mg/Kg	0.050
1,2-Dibromo-3-chloropropane	ND	mg/Kg	0.10
Dibromochloromethane	ND	mg/Kg	0.050
Dibromomethane	ND	mg/Kg	0.10
1,2-Dichlorobenzene	ND	mg/Kg	0.050
1,3-Dichlorobenzene	ND	mg/Kg	0.050
1,4-Dichlorobenzene	ND	mg/Kg	0.050
Dichlorodifluoromethane	ND	mg/Kg	0.050
1,1-Dichloroethane	ND	mg/Kg	0.10
1,1-Dichloroethene	ND	mg/Kg	0.050
1,2-Dichloropropane	ND	mg/Kg	0.050
1,3-Dichloropropane	ND	mg/Kg	0.050
2,2-Dichloropropane	ND	mg/Kg	0.10
1,1-Dichloropropene	ND	mg/Kg	0.10
Hexachlorobutadiene	ND	mg/Kg	0.10
2-Hexanone	ND	mg/Kg	0.50
Isopropylbenzene	ND	mg/Kg	0.050
4-Isopropyltoluene	ND	mg/Kg	0.050
4-Methyl-2-pentanone	ND	mg/Kg	0.50
Methylene chloride	ND	mg/Kg	0.15
n-Butylbenzene	ND	mg/Kg	0.050
n-Propylbenzene	ND	mg/Kg	0.050
sec-Butylbenzene	ND	mg/Kg	0.050
Styrene	ND	mg/Kg	0.050
tert-Butylbenzene	ND	mg/Kg	0.050
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.050
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.050
Tetrachloroethene (PCE)	ND	mg/Kg	0.050
trans-1,2-DCE	ND	mg/Kg	0.050
trans-1,3-Dichloropropene	ND	mg/Kg	0.050
1,2,3-Trichlorobenzene	ND	mg/Kg	0.10
1,2,4-Trichlorobenzene	ND	mg/Kg	0.050
1,1,1-Trichloroethane	ND	mg/Kg	0.050
1,1,2-Trichloroethane	ND	mg/Kg	0.050
Trichloroethene (TCE)	ND	mg/Kg	0.050
Trichlorofluoromethane	ND	mg/Kg	0.050
1,2,3-Trichloropropane	ND	mg/Kg	0.10
Vinyl chloride	ND	mg/Kg	0.050
Xylenes, Total	ND	mg/Kg	0.10

Sample ID: lcs-26239

LCS

Batch ID: 26239 Analysis Date: 4/7/2011 2:21:45 PM

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: lcs-26239

LCS

Batch ID: 26239

Analysis Date: 4/7/2011 2:21:45 PM

Benzene	0.8497	mg/Kg	0.050	1	0	85.0	68.3	120
Toluene	1.004	mg/Kg	0.050	1	0	100	90.4	118
Chlorobenzene	1.011	mg/Kg	0.050	1	0	101	94.2	111
1,1-Dichloroethene	0.8136	mg/Kg	0.050	1	0	81.3	53.7	140
Trichloroethene (TCE)	0.7352	mg/Kg	0.050	1	0	73.5	64.5	108

Sample ID: 100ng lcs

LCS

Batch ID: R44744

Analysis Date: 4/13/2011 1:07:07 PM

Benzene	1.090	mg/Kg	0.050	1	0	109	68.3	120
Toluene	1.005	mg/Kg	0.050	1	0	101	90.4	118
Chlorobenzene	0.9620	mg/Kg	0.050	1	0	96.2	94.2	111
1,1-Dichloroethene	1.187	mg/Kg	0.050	1	0	119	53.7	140
Trichloroethene (TCE)	0.9725	mg/Kg	0.050	1	0	97.3	64.5	108

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: 1104008-06a msd

MSD

Batch ID: R44594 Analysis Date: 4/6/2011 5:54:00 PM

Benzene	18.59	µg/L	1.0	20	0.301	91.4	82	118	8.81	17.1
Toluene	18.99	µg/L	1.0	20	0.3632	93.1	81.1	122	12.1	16.1
Chlorobenzene	17.69	µg/L	1.0	20	0	88.4	78.8	114	13.5	15.5
1,1-Dichloroethene	19.26	µg/L	1.0	20	0	96.3	89	126	1.27	15.8
Trichloroethene (TCE)	16.51	µg/L	1.0	20	0	82.6	73.9	114	7.69	19.6

Sample ID: b2

MBLK

Batch ID: R44594 Analysis Date: 4/6/2011 10:58:24 AM

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0
1,2,4-Trimethylbenzene	ND	µg/L	1.0
1,3,5-Trimethylbenzene	ND	µg/L	1.0
1,2-Dichloroethane (EDC)	ND	µg/L	1.0
1,2-Dibromoethane (EDB)	ND	µg/L	1.0
Naphthalene	ND	µg/L	2.0
1-Methylnaphthalene	ND	µg/L	4.0
2-Methylnaphthalene	ND	µg/L	4.0
Acetone	ND	µg/L	10
Bromobenzene	ND	µg/L	1.0
Bromodichloromethane	ND	µg/L	1.0
Bromoform	ND	µg/L	1.0
Bromomethane	ND	µg/L	3.0
2-Butanone	ND	µg/L	10
Carbon disulfide	ND	µg/L	10
Carbon Tetrachloride	ND	µg/L	1.0
Chlorobenzene	ND	µg/L	1.0
Chloroethane	ND	µg/L	2.0
Chloroform	ND	µg/L	1.0
Chloromethane	ND	µg/L	3.0
2-Chlorotoluene	ND	µg/L	1.0
4-Chlorotoluene	ND	µg/L	1.0
cis-1,2-DCE	ND	µg/L	1.0
cis-1,3-Dichloropropene	ND	µg/L	1.0
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0
Dibromochloromethane	ND	µg/L	1.0
Dibromomethane	ND	µg/L	1.0
1,2-Dichlorobenzene	ND	µg/L	1.0
1,3-Dichlorobenzene	ND	µg/L	1.0
1,4-Dichlorobenzene	ND	µg/L	1.0
Dichlorodifluoromethane	ND	µg/L	1.0
1,1-Dichloroethane	ND	µg/L	1.0
1,1-Dichloroethene	ND	µg/L	1.0
1,2-Dichloropropane	ND	µg/L	1.0
1,3-Dichloropropane	ND	µg/L	1.0

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: b2

MBLK

Batch ID: R44594 Analysis Date: 4/6/2011 10:58:24 AM

2,2-Dichloropropane	ND	µg/L	2.0
1,1-Dichloropropene	ND	µg/L	1.0
Hexachlorobutadiene	ND	µg/L	1.0
2-Hexanone	ND	µg/L	10
Isopropylbenzene	ND	µg/L	1.0
4-Isopropyltoluene	ND	µg/L	1.0
4-Methyl-2-pentanone	ND	µg/L	10
Methylene Chloride	ND	µg/L	3.0
n-Butylbenzene	ND	µg/L	1.0
n-Propylbenzene	ND	µg/L	1.0
sec-Butylbenzene	ND	µg/L	1.0
Styrene	ND	µg/L	1.0
tert-Butylbenzene	ND	µg/L	1.0
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0
Tetrachloroethene (PCE)	ND	µg/L	1.0
trans-1,2-DCE	ND	µg/L	1.0
trans-1,3-Dichloropropene	ND	µg/L	1.0
1,2,3-Trichlorobenzene	ND	µg/L	1.0
1,2,4-Trichlorobenzene	ND	µg/L	1.0
1,1,1-Trichloroethane	ND	µg/L	1.0
1,1,2-Trichloroethane	ND	µg/L	1.0
Trichloroethene (TCE)	ND	µg/L	1.0
Trichlorofluoromethane	ND	µg/L	1.0
1,2,3-Trichloropropane	ND	µg/L	2.0
Vinyl chloride	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	1.5

Sample ID: b2

MBLK

Batch ID: R44744 Analysis Date: 4/13/2011 12:10:41 PM

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0
1,2,4-Trimethylbenzene	ND	µg/L	1.0
1,3,5-Trimethylbenzene	ND	µg/L	1.0
1,2-Dichloroethane (EDC)	ND	µg/L	1.0
1,2-Dibromoethane (EDB)	ND	µg/L	1.0
Naphthalene	ND	µg/L	2.0
1-Methylnaphthalene	ND	µg/L	4.0
2-Methylnaphthalene	ND	µg/L	4.0
Acetone	ND	µg/L	10
Bromobenzene	ND	µg/L	1.0
Bromodichloromethane	ND	µg/L	1.0
Bromoform	ND	µg/L	1.0
Bromomethane	ND	µg/L	3.0

Qualifiers:

E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 NC Non-Chlorinated
 R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: b2

MBLK

Batch ID: R44744 Analysis Date: 4/13/2011 12:10:41 PM

2-Butanone	ND	µg/L	10
Carbon disulfide	ND	µg/L	10
Carbon Tetrachloride	ND	µg/L	1.0
Chlorobenzene	ND	µg/L	1.0
Chloroethane	ND	µg/L	2.0
Chloroform	ND	µg/L	1.0
Chloromethane	ND	µg/L	3.0
2-Chlorotoluene	ND	µg/L	1.0
4-Chlorotoluene	ND	µg/L	1.0
cis-1,2-DCE	ND	µg/L	1.0
cis-1,3-Dichloropropene	ND	µg/L	1.0
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0
Dibromochloromethane	ND	µg/L	1.0
Dibromomethane	ND	µg/L	1.0
1,2-Dichlorobenzene	ND	µg/L	1.0
1,3-Dichlorobenzene	ND	µg/L	1.0
1,4-Dichlorobenzene	ND	µg/L	1.0
Dichlorodifluoromethane	ND	µg/L	1.0
1,1-Dichloroethane	ND	µg/L	1.0
1,1-Dichloroethene	ND	µg/L	1.0
1,2-Dichloropropane	ND	µg/L	1.0
1,3-Dichloropropane	ND	µg/L	1.0
2,2-Dichloropropane	ND	µg/L	2.0
1,1-Dichloropropene	ND	µg/L	1.0
Hexachlorobutadiene	ND	µg/L	1.0
2-Hexanone	ND	µg/L	10
Isopropylbenzene	ND	µg/L	1.0
4-Isopropyltoluene	ND	µg/L	1.0
4-Methyl-2-pentanone	ND	µg/L	10
Methylene Chloride	ND	µg/L	3.0
n-Butylbenzene	ND	µg/L	1.0
n-Propylbenzene	ND	µg/L	1.0
sec-Butylbenzene	ND	µg/L	1.0
Styrene	ND	µg/L	1.0
tert-Butylbenzene	ND	µg/L	1.0
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0
Tetrachloroethane (PCE)	ND	µg/L	1.0
trans-1,2-DCE	ND	µg/L	1.0
trans-1,3-Dichloropropene	ND	µg/L	1.0
1,2,3-Trichlorobenzene	ND	µg/L	1.0
1,2,4-Trichlorobenzene	ND	µg/L	1.0
1,1,1-Trichloroethane	ND	µg/L	1.0
1,1,2-Trichloroethane	ND	µg/L	1.0

Qualifiers:

E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 NC Non-Chlorinated
 R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8280B: VOLATILES											
Sample ID: b2		MBLK									
			Batch ID: R44744 Analysis Date: 4/13/2011 12:10:41 PM								
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
Sample ID: 100ng lcs		LCS									
			Batch ID: R44594 Analysis Date: 4/6/2011 10:30:15 AM								
Benzene	21.43	µg/L	1.0	20	0.261	106	85.2	121			
Toluene	21.28	µg/L	1.0	20	0.142	106	88.3	121			
Chlorobenzene	20.11	µg/L	1.0	20	0.262	99.2	91.9	110			
1,1-Dichloroethene	24.85	µg/L	1.0	20	0	124	91.5	134			
Trichloroethene (TCE)	18.67	µg/L	1.0	20	0	93.3	78.3	102			
Sample ID: 100ng lcs		LCS									
			Batch ID: R44744 Analysis Date: 4/13/2011 1:07:07 PM								
Benzene	21.80	µg/L	1.0	20	0	109	85.2	121			
Toluene	20.11	µg/L	1.0	20	0.1372	99.9	88.3	121			
Chlorobenzene	19.24	µg/L	1.0	20	0	96.2	91.9	110			
1,1-Dichloroethene	23.73	µg/L	1.0	20	0	119	91.5	134			
Trichloroethene (TCE)	19.45	µg/L	1.0	20	0	97.3	78.3	102			
Sample ID: 1104008-06a ms		MS									
			Batch ID: R44594 Analysis Date: 4/6/2011 5:25:48 PM								
Benzene	17.02	µg/L	1.0	20	0.301	83.6	82	118			
Toluene	16.83	µg/L	1.0	20	0.3632	82.3	81.1	122			
Chlorobenzene	15.45	µg/L	1.0	20	0	77.3	78.8	114			S
1,1-Dichloroethene	19.50	µg/L	1.0	20	0	97.5	89	126			
Trichloroethene (TCE)	15.29	µg/L	1.0	20	0	76.5	73.9	114			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8270C: Semivolatiles

Sample ID: 1104008-01Amsd

MSD

Batch ID: 26243 Analysis Date: 4/7/2011 7:28:39 PM

4-Chloro-3-methylphenol	2.782	mg/Kg	0.50	3.33	0	83.5	17.4	119	3.60	20.2	
2-Chlorophenol	2.074	mg/Kg	0.20	3.33	0	62.3	25.3	117	3.61	30.6	
4-Nitrophenol	2.755	mg/Kg	0.25	3.33	0	82.7	13.7	165	0.327	43.7	
Pentachlorophenol	2.703	mg/Kg	0.40	3.33	0.061	79.3	26.6	117	5.28	24.2	
Phenol	2.193	mg/Kg	0.20	3.33	0	65.8	26.6	105	3.70	29.5	

Sample ID: mb-26243

MBLK

Batch ID: 26243 Analysis Date: 4/7/2011 5:30:37 PM

4-Chloro-3-methylphenol	ND	mg/Kg	0.50								
2-Chlorophenol	ND	mg/Kg	0.20								
2,4-Dichlorophenol	ND	mg/Kg	0.40								
2,4-Dimethylphenol	ND	mg/Kg	0.30								
4,6-Dinitro-2-methylphenol	ND	mg/Kg	0.50								
2,4-Dinitrophenol	ND	mg/Kg	0.40								
2-Methylphenol	ND	mg/Kg	0.50								
3+4-Methylphenol	ND	mg/Kg	0.20								
2-Nitrophenol	ND	mg/Kg	0.20								
4-Nitrophenol	ND	mg/Kg	0.25								
Pentachlorophenol	ND	mg/Kg	0.40								
Phenol	ND	mg/Kg	0.20								
2,4,5-Trichlorophenol	ND	mg/Kg	0.20								
2,4,6-Trichlorophenol	ND	mg/Kg	0.20								

Sample ID: lcs-26243

LCS

Batch ID: 26243 Analysis Date: 4/7/2011 6:00:03 PM

4-Chloro-3-methylphenol	2.586	mg/Kg	0.50	3.33	0	77.7	31.9	112			
2-Chlorophenol	1.982	mg/Kg	0.20	3.33	0	59.5	31.2	110			
4-Nitrophenol	2.306	mg/Kg	0.25	3.33	0	69.2	32.4	114			
Pentachlorophenol	2.016	mg/Kg	0.40	3.33	0	60.5	30.4	101			
Phenol	1.953	mg/Kg	0.20	3.33	0	58.6	27.9	105			

Sample ID: 1104008-01Ams

MS

Batch ID: 26243 Analysis Date: 4/7/2011 6:59:12 PM

4-Chloro-3-methylphenol	2.884	mg/Kg	0.50	3.33	0	86.6	17.4	119			
2-Chlorophenol	2.151	mg/Kg	0.20	3.33	0	64.6	25.3	117			
4-Nitrophenol	2.746	mg/Kg	0.25	3.33	0	82.5	13.7	165			
Pentachlorophenol	2.564	mg/Kg	0.40	3.33	0.061	75.2	26.6	117			
Phenol	2.275	mg/Kg	0.20	3.33	0	68.3	26.6	105			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8310: PAHs

Sample ID: 1104008-01AMSD

MSD

Batch ID: 26348

Analysis Date: 4/13/2011 2:33:40 PM

Naphthalene	0.8175	mg/Kg	0.25	2	0	40.9	42.9	109	5.50	20	S
1-Methylnaphthalene	0.9000	mg/Kg	0.25	2	0	45.0	45	117	2.44	20	
2-Methylnaphthalene	0.8260	mg/Kg	0.25	2	0	41.3	41.3	109	7.80	20	
Acenaphthylene	0.8125	mg/Kg	0.25	2	0	40.6	36.1	118	6.81	20	
Acenaphthene	0.9218	mg/Kg	0.25	2	0	46.1	42.1	117	6.00	20	
Fluorene	0.07175	mg/Kg	0.030	0.2	0	35.9	10.2	103	13.9	20	
Phenanthrene	0.05200	mg/Kg	0.015	0.101	0	51.7	25.5	113	0.957	20	
Anthracene	0.05325	mg/Kg	0.015	0.101	0	52.9	38.3	108	11.9	20	
Fluoranthene	0.1108	mg/Kg	0.020	0.201	0	55.2	28.4	121	15.4	20	
Pyrene	0.08925	mg/Kg	0.025	0.2	0	44.6	23.6	115	10.1	20	
Benz(a)anthracene	0.01125	mg/Kg	0.010	0.02	0	56.3	17.5	126	12.5	20	
Chrysene	0.05175	mg/Kg	0.011	0.101	0	51.4	39.7	110	12.7	20	
Benzo(b)fluoranthene	0.01400	mg/Kg	0.010	0.025	0	56.0	38.7	114	11.8	20	
Benzo(k)fluoranthene	ND	mg/Kg	0.010	0.013	0	44.0	30.5	132	0	20	
Benzo(a)pyrene	ND	mg/Kg	0.010	0.013	0	60.0	43.1	115	0	20	
Dibenz(a,h)anthracene	0.01550	mg/Kg	0.010	0.025	0	62.0	38.7	122	9.23	20	
Benzo(g,h,i)perylene	0.01750	mg/Kg	0.010	0.025	0.002	62.0	36.2	121	9.52	20	
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.10	0.050	0	56.5	42.5	122	0	20	

Sample ID: MB-26348

MBLK

Batch ID: 26348

Analysis Date: 4/13/2011 12:46:14 PM

Naphthalene	ND	mg/Kg	0.25								
1-Methylnaphthalene	ND	mg/Kg	0.25								
2-Methylnaphthalene	ND	mg/Kg	0.25								
Acenaphthylene	ND	mg/Kg	0.25								
Acenaphthene	ND	mg/Kg	0.25								
Fluorene	ND	mg/Kg	0.030								
Phenanthrene	ND	mg/Kg	0.015								
Anthracene	ND	mg/Kg	0.015								
Fluoranthene	ND	mg/Kg	0.020								
Pyrene	ND	mg/Kg	0.025								
Benz(a)anthracene	ND	mg/Kg	0.010								
Chrysene	ND	mg/Kg	0.011								
Benzo(b)fluoranthene	ND	mg/Kg	0.010								
Benzo(k)fluoranthene	ND	mg/Kg	0.010								
Benzo(a)pyrene	ND	mg/Kg	0.010								
Dibenz(a,h)anthracene	ND	mg/Kg	0.010								
Benzo(g,h,i)perylene	ND	mg/Kg	0.010								
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.10								

Sample ID: LCS-26348

LCS

Batch ID: 26348

Analysis Date: 4/13/2011 1:07:34 PM

Naphthalene	0.9658	mg/Kg	0.25	2	0	48.3	42.5	107			
1-Methylnaphthalene	1.049	mg/Kg	0.25	2	0	52.4	39.9	116			
2-Methylnaphthalene	0.9763	mg/Kg	0.25	2	0	48.8	42.3	107			
Acenaphthylene	0.9048	mg/Kg	0.25	2	0	45.2	44.2	104			
Acenaphthene	1.006	mg/Kg	0.25	2	0	50.3	44.8	112			
Fluorene	0.07525	mg/Kg	0.030	0.2	0	37.6	29	111			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8310: PAHs

Sample ID: LCS-26348

LCS

Batch ID: 26348

Analysis Date: 4/13/2011 1:07:34 PM

Phenanthrene	0.05175	mg/Kg	0.015	0.101	0	51.4	34.5	121			
Anthracene	0.04675	mg/Kg	0.015	0.101	0	46.5	28.8	113			
Fluoranthene	0.09775	mg/Kg	0.020	0.201	0	48.7	27.9	116			
Pyrene	0.07950	mg/Kg	0.025	0.2	0	39.8	19.6	113			
Benz(a)anthracene	ND	mg/Kg	0.010	0.02	0	46.3	35	110			
Chrysene	0.04375	mg/Kg	0.011	0.101	0	43.5	41.6	106			
Benzo(b)fluoranthene	0.01225	mg/Kg	0.010	0.025	0	49.0	24.8	139			
Benzo(k)fluoranthene	ND	mg/Kg	0.010	0.013	0	40.0	35.8	118			
Benzo(a)pyrene	ND	mg/Kg	0.010	0.013	0	52.0	39.2	109			
Dibenz(a,h)anthracene	0.01350	mg/Kg	0.010	0.025	0	54.0	46.7	114			
Benzo(g,h,i)perylene	0.01425	mg/Kg	0.010	0.025	0.0015	51.0	43.3	106			
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.10	0.050	0	48.0	41.9	124			

Sample ID: 1104008-01AMS

MS

Batch ID: 26348

Analysis Date: 4/13/2011 2:12:24 PM

Naphthalene	0.8638	mg/Kg	0.25	2	0	43.2	42.9	109			
1-Methylnaphthalene	0.9223	mg/Kg	0.25	2	0	46.1	45	117			
2-Methylnaphthalene	0.8930	mg/Kg	0.25	2	0	44.7	41.3	109			
Acenaphthylene	0.8698	mg/Kg	0.25	2	0	43.5	36.1	118			
Acenaphthene	0.9788	mg/Kg	0.25	2	0	48.9	42.1	117			
Fluorene	0.08250	mg/Kg	0.030	0.2	0	41.3	10.2	103			
Phenanthrene	0.05250	mg/Kg	0.015	0.101	0	52.2	25.5	113			
Anthracene	0.06000	mg/Kg	0.015	0.101	0	59.6	38.3	108			
Fluoranthene	0.1293	mg/Kg	0.020	0.201	0	64.4	28.4	121			
Pyrene	0.09875	mg/Kg	0.025	0.2	0	49.4	23.6	115			
Benz(a)anthracene	0.01275	mg/Kg	0.010	0.02	0	63.8	17.5	126			
Chrysene	0.05875	mg/Kg	0.011	0.101	0	58.4	39.7	110			
Benzo(b)fluoranthene	0.01575	mg/Kg	0.010	0.025	0	63.0	38.7	114			
Benzo(k)fluoranthene	ND	mg/Kg	0.010	0.013	0	54.0	30.5	132			
Benzo(a)pyrene	ND	mg/Kg	0.010	0.013	0	72.0	43.1	115			
Dibenz(a,h)anthracene	0.01700	mg/Kg	0.010	0.025	0	68.0	38.7	122			
Benzo(g,h,i)perylene	0.01925	mg/Kg	0.010	0.025	0.002	69.0	36.2	121			
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.10	0.050	0	62.5	42.5	122			

Qualifiers:

E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 NC Non-Chlorinated
 R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8310: PAHs											
Sample ID: 1104008-04DMSD		MSD				Batch ID: 26424	Analysis Date: 4/21/2011 8:47:41 PM				
Naphthalene	51.63	µg/L	2.0	80	2.54	61.4	70	130	1.38	30	S
1-Methylnaphthalene	51.69	µg/L	2.0	80.2	0	64.5	70	130	2.01	30	S
2-Methylnaphthalene	53.85	µg/L	2.0	80	1.71	64.9	70	130	0.502	30	S
Acenaphthylene	52.23	µg/L	2.5	80.2	0	65.1	70	130	3.74	30	S
Acenaphthene	56.01	µg/L	5.0	80	0	70.0	70	130	2.19	30	
Fluorene	4.680	µg/L	0.80	8.02	0.41	53.2	70	130	2.32	30	S
Phenanthrene	1.380	µg/L	0.60	4.02	0	34.3	70	130	1.44	30	S
Anthracene	2.710	µg/L	0.60	4.02	0	67.4	70	130	10.8	30	S
Fluoranthene	5.610	µg/L	0.30	8.02	0	70.0	70	130	2.34	30	S
Pyrene	4.640	µg/L	0.30	8.02	0	57.9	70	130	14.8	30	S
Benz(a)anthracene	0.6700	µg/L	0.070	0.802	0.07	74.8	70	130	4.38	30	
Chrysene	3.080	µg/L	0.20	4.02	0.13	73.4	70	130	4.75	30	
Benzo(b)fluoranthene	0.8500	µg/L	0.10	1.002	0	84.8	70	130	6.82	30	
Benzo(k)fluoranthene	0.3700	µg/L	0.070	0.5	0	74.0	70	130	7.79	30	
Benzo(a)pyrene	0.3700	µg/L	0.070	0.502	0	73.7	70	130	5.26	30	
Dibenz(a,h)anthracene	0.8200	µg/L	0.070	1.002	0	81.8	70	130	5.92	30	
Benzo(g,h,i)perylene	0.8500	µg/L	0.080	1	0.07	78.0	70	130	5.71	30	
Indeno(1,2,3-cd)pyrene	1.520	µg/L	0.080	2.004	0.06	72.9	70	130	4.50	30	
Sample ID: MB-26424		MBLK				Batch ID: 26424	Analysis Date: 4/21/2011 6:39:37 PM				
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	2.0								
2-Methylnaphthalene	ND	µg/L	2.0								
Acenaphthylene	ND	µg/L	2.5								
Acenaphthene	ND	µg/L	5.0								
Fluorene	ND	µg/L	0.80								
Phenanthrene	ND	µg/L	0.60								
Anthracene	ND	µg/L	0.60								
Fluoranthene	ND	µg/L	0.30								
Pyrene	ND	µg/L	0.30								
Benz(a)anthracene	ND	µg/L	0.070								
Chrysene	ND	µg/L	0.20								
Benzo(b)fluoranthene	ND	µg/L	0.10								
Benzo(k)fluoranthene	ND	µg/L	0.070								
Benzo(a)pyrene	ND	µg/L	0.070								
Dibenz(a,h)anthracene	ND	µg/L	0.070								
Benzo(g,h,i)perylene	ND	µg/L	0.080								
Indeno(1,2,3-cd)pyrene	ND	µg/L	0.080								
Sample ID: LCS-26424		LCS				Batch ID: 26424	Analysis Date: 4/21/2011 7:01:00 PM				
Naphthalene	56.26	µg/L	2.0	80	0	70.3	53.2	86.7			
1-Methylnaphthalene	57.58	µg/L	2.0	80.2	0	71.8	49.8	96			
2-Methylnaphthalene	58.03	µg/L	2.0	80	0	72.5	51.4	89.8			
Acenaphthylene	60.29	µg/L	2.5	80.2	0	75.2	54.1	91.8			
Acenaphthene	63.12	µg/L	5.0	80	0	78.9	53.5	98.4			
Fluorene	4.920	µg/L	0.80	8.02	0	61.3	23.1	107			

Qualifiers:

E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 NC Non-Chlorinated
 R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8310: PAHs											
Sample ID: LCS-26424		LCS				Batch ID: 26424		Analysis Date: 4/21/2011 7:01:00 PM			
Phenanthrene	1.940	µg/L	0.60	4.02	0	48.3	21.9	110			
Anthracene	2.810	µg/L	0.60	4.02	0	69.9	38	104			
Fluoranthene	5.560	µg/L	0.30	8.02	0	69.3	43	101			
Pyrene	4.840	µg/L	0.30	8.02	0	60.3	31.8	99.1			
Benz(a)anthracene	0.6900	µg/L	0.070	0.802	0.03	82.3	38.3	94.3			
Chrysene	3.120	µg/L	0.20	4.02	0.1	75.1	42.4	95.8			
Benzo(b)fluoranthene	0.9100	µg/L	0.10	1.002	0	90.8	29.8	124			
Benzo(k)fluoranthene	0.4000	µg/L	0.070	0.5	0	80.0	40.7	109			
Benzo(a)pyrene	0.4000	µg/L	0.070	0.502	0	79.7	47.7	96.9			
Dibenz(a,h)anthracene	0.8400	µg/L	0.070	1.002	0.04	79.8	50.3	104			
Benzo(g,h,i)perylene	0.8700	µg/L	0.080	1	0.06	81.0	49.4	97.5			
Indeno(1,2,3-cd)pyrene	1.550	µg/L	0.080	2.004	0	77.3	53.5	111			
Sample ID: 1104008-04DMS		MS				Batch ID: 26424		Analysis Date: 4/21/2011 8:26:22 PM			
Naphthalene	52.35	µg/L	2.0	80	2.54	62.3	70	130			S
1-Methylnaphthalene	52.74	µg/L	2.0	80.2	0	65.8	70	130			S
2-Methylnaphthalene	53.92	µg/L	2.0	80	1.71	65.3	70	130			S
Acenaphthylene	54.22	µg/L	2.5	80.2	0	67.6	70	130			S
Acenaphthene	57.25	µg/L	5.0	80	0	71.6	70	130			
Fluorene	4.790	µg/L	0.80	8.02	0.41	54.6	70	130			S
Phenanthrene	1.400	µg/L	0.60	4.02	0	34.8	70	130			S
Anthracene	3.020	µg/L	0.60	4.02	0	75.1	70	130			
Fluoranthene	5.480	µg/L	0.30	8.02	0	68.3	70	130			S
Pyrene	5.380	µg/L	0.30	8.02	0	67.1	70	130			S
Benz(a)anthracene	0.7000	µg/L	0.070	0.802	0.07	78.6	70	130			
Chrysene	3.230	µg/L	0.20	4.02	0.13	77.1	70	130			
Benzo(b)fluoranthene	0.9100	µg/L	0.10	1.002	0	90.8	70	130			
Benzo(k)fluoranthene	0.4000	µg/L	0.070	0.5	0	80.0	70	130			
Benzo(a)pyrene	0.3900	µg/L	0.070	0.502	0	77.7	70	130			
Dibenz(a,h)anthracene	0.8700	µg/L	0.070	1.002	0	86.8	70	130			
Benzo(g,h,i)perylene	0.9000	µg/L	0.080	1	0.07	83.0	70	130			
Indeno(1,2,3-cd)pyrene	1.590	µg/L	0.080	2.004	0.06	76.3	70	130			

Method: EPA Method 7471: Mercury

Sample ID: 1104008-01AMSD		MSD				Batch ID: 26253		Analysis Date: 4/5/2011 12:49:59 PM			
Mercury	0.1720	mg/Kg	0.033	0.166	0.0029	102	75	125	1.84	20	
Sample ID: MB-26253		MBLK				Batch ID: 26253		Analysis Date: 4/5/2011 12:28:34 PM			
Mercury	ND	mg/Kg	0.033								
Sample ID: LCS-26253		LCS				Batch ID: 26253		Analysis Date: 4/5/2011 12:30:18 PM			
Mercury	0.1530	mg/Kg	0.033	0.167	0	91.8	80	120			
Sample ID: 1104008-01AMS		MS				Batch ID: 26253		Analysis Date: 4/5/2011 12:44:29 PM			
Mercury	0.1688	mg/Kg	0.033	0.166	0.0029	99.9	75	125			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Gallup OCD Landfarms

Work Order: 1104008

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	--------	---------	------	----------	-----------	------	----------	------

Method: EPA Method 6010B: Soil Metals

Sample ID: MB-26237

MBLK

Batch ID: 26237 Analysis Date: 4/5/2011 11:07:03 AM

Arsenic	ND	mg/Kg	2.5
Barium	ND	mg/Kg	0.10
Cadmium	ND	mg/Kg	0.10
Chromium	ND	mg/Kg	0.30
Copper	ND	mg/Kg	0.30
Iron	ND	mg/Kg	1.0
Lead	ND	mg/Kg	0.25
Manganese	ND	mg/Kg	0.10
Selenium	ND	mg/Kg	2.5
Silver	ND	mg/Kg	0.25
Uranium	ND	mg/Kg	5.0
Zinc	ND	mg/Kg	2.5

Sample ID: LCS-26237

LCS

Batch ID: 26237 Analysis Date: 4/5/2011 11:09:51 AM

Arsenic	24.04	mg/Kg	2.5	25	0	96.2	80	120
Barium	23.07	mg/Kg	0.10	25	0.0671	92.0	80	120
Cadmium	23.60	mg/Kg	0.10	25	0	94.4	80	120
Chromium	24.33	mg/Kg	0.30	25	0.0759	97.0	80	120
Copper	25.25	mg/Kg	0.30	25	0.1513	100	80	120
Iron	24.02	mg/Kg	1.0	25	0	96.1	80	120
Lead	22.47	mg/Kg	0.25	25	0	89.9	80	120
Manganese	23.42	mg/Kg	0.10	25	0	93.7	80	120
Selenium	23.79	mg/Kg	2.5	25	0	95.2	80	120
Silver	23.45	mg/Kg	0.25	25	0.0223	93.7	80	120
Uranium	25.12	mg/Kg	5.0	25	0	100	80	120
Zinc	23.83	mg/Kg	2.5	25	0.6173	92.9	80	120

Method: SM2540C MOD: Total Dissolved Solids

Sample ID: 1104008-04GMSD

MSD

Batch ID: 26401 Analysis Date: 4/14/2011 8:54:00 PM

Total Dissolved Solids 13670 mg/L 100 5000 8645 101 80 120 0.547 20

Sample ID: MB-26401

MBLK

Batch ID: 26401 Analysis Date: 4/14/2011 8:54:00 PM

Total Dissolved Solids ND mg/L 20.0

Sample ID: LCS-26401

LCS

Batch ID: 26401 Analysis Date: 4/14/2011 8:54:00 PM

Total Dissolved Solids 1000 mg/L 20.0 1000 0 100 80 120

Sample ID: 1104008-04GMS

MS

Batch ID: 26401 Analysis Date: 4/14/2011 8:54:00 PM

Total Dissolved Solids 13750 mg/L 100 5000 8645 102 80 120

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU

Date Received:

3/31/2011

Work Order Number 1104008

Received by: AMF

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name: Client drop-off

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

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

Container/Temp Blank temperature?

8.6°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Western Refining

Mailing Address: Route 3 Box 7
Gallup NM 87301

Phone #: 505 722-3833

email or Fax#: 505 722-0210

QA/QC Package: EDD

☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☒ EDD (Type) check w/ Trihydro DV team

Turn-Around Time:
☐ Standard ☐ Rush _____

Project Name: Gallup OCD Landfills

Project #: 647-039-002

Project Manager: ED Riege

Sampler: G. Price

On Ice: YES

Sample Temperature: 5/1



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA) (Normal)	List 1 (Normal)	List 2 (Normal)	List 1 (TCLP)	List 3 (TCLP)	Air Bubbles (Y or N)
3/30/11	12:10	Soil	BG-NE-033011	3-802	ice	-1												X				
3/30/11	13:15	Soil	BG-W-033011	2-402	ice	-2													X			
3/30/11	14:10	Soil	BG-S-033011	2-402	ice	-3													X			
3/30/11	16:30	Soil	CentralOCD-Close-033011	3-802	ice	-4														X		
3/30/11	16:30	Soil	CentralOCD-Close-033011	3-802	ice	-4														X		
3/30/11	16:30	Soil	CentralOCD-Close-033011	3-802	ice	-4														X		
3/30/11	17:50	Soil	NEOCD-Close-033011	1-802	ice	-5																X
3/30/11	18:00	W	EB-033011	3 VOA	ice, HCL	-6										X						
3/30/11	18:05	W	FB-033011	3 VOA	ice, HCL	-7										X						
3/31/11	10:30	Soil	CentralOCD-01-033111	3-402	ice	-8											X					
3/31/11	11:00	Soil	CentralOCD-02-033111	3-402	ice	-9											X					
3/31/11	11:35	Soil	CentralOCD-03-033111	3-402	ice	-10											X					

Date: 3/31/11 Time: 15:20 Relinquished by: [Signature]

Date: _____ Time: _____ Relinquished by: _____

Received by: [Signature] Date: 3/31/11 Time: 15:25

Received by: _____ Date: _____ Time: _____

Remarks: CentralOCD-Close-033011-MS and CentralOCD-Close-033011-MSD are extra volumes collected for Matrix spike/Matrix spike duplicate. No charge. Please send EDD to gprice@trihydro.com

Chain-of-Custody Record

Client: Western Refining

Mailing Address: Route 3 Box 7
Callup NM 87301

Phone #: 505 722-3833

email or Fax#: 505 722-0210

QA/QC Package: EDD

☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☒ EDD (Type) check w/ Trihydro DV team

Turn-Around Time:
☐ Standard ☐ Rush _____

Project Name: Callup OCD
Landfarms

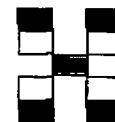
Project #: 697-039-002

Project Manager: Ed Riege

Sampler: G. Price

On Ice ☒ Dry ☒ No _____

Sample Temperature: 6-6



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

email or Fax#: 505 722-0210			Project Manager: Ed Riege			BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	List 4 (Normal)	List 3 (Normal)	Air Bubbles (Y or N)
QA/QC Package: EDD			Sampler: G. Price																
☐ Standard ☐ Level 4 (Full Validation)			On Ice ☒ Yes ☐ No																
Accreditation ☐ NELAP ☐ Other			Sample Temperature: 60																
☒ EDD (Type) Check w/ Trihydr DV Kam																			
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No													
3/31/11	11:20	Soil	CentralOCD-04-033111	3-402	ice	-11													
3/31/11	✓	Soil	BD-02-033111	3-402	ice														
3/31/11	8:45	Soil	NEOCD-01-033111	1-402	ice	-12													
3/31/11	9:00	Soil	NEOCD-02-033111	1-402	ice	-13													
3/31/11	9:25	Soil	NEOCD-03-033111	1-402	ice	-14													
3/31/11	9:40	Soil	NEOCD-04-033111	1-402	ice	-15													
3/31/11	✓	Soil	BD-02-033111	1-402	ice														
3/31/11	✓	W	Trip Blank	3 VOA	ice/acid	-16									X				
			BD-02-033111	3-402															
3/31/11	✓	Soil	BD-02-033111	1-402	ice	-17													
3/31/11	✓	Soil	BD-01-033111	3-402	ice	-18													

Date: 3/31/11 Time: 1520 Relinquished by: [Signature]

Date: _____ Time: _____ Relinquished by: _____

Received by: [Signature] Date: 3/31/11 Time: 1520

Received by: _____ Date: _____ Time: _____

Remarks: Call Grant w/ questions
307-399-0890
Christina Heigel (Data Validation)
cheigel@trihydro.com

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Thursday, March 31, 2011 7:16 AM
To: 'Riege, Ed'
Subject: RE: OCD landfarms/background

I'll make a note to expect something the first or second week in May.

I think we're trying to get the NE LFarm area closed out before the expiration date of the permit. Thanks.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us

Website: <http://www.emnrd.state.nm.us/ocd/index.htm>

"Why not Prevent Pollution; Minimize Waste; Reduce the Cost of Operations; & Move Forward with the Rest of the Nation?" To see how, go to "Pollution Prevention & Waste Minimization" at:

<http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental>)

From: Riege, Ed [<mailto:Ed.Riege@wnr.com>]
Sent: Thursday, March 31, 2011 7:01 AM
To: Chavez, Carl J, EMNRD
Subject: OCD landfarms/background

Carl,

The samples were collected yesterday and will be delivered to the lab today and will be analyzed with normal turnaround time. So, it could be ~ 2 weeks before we receive the data. If allowable, I'd like to have a little time to have our data validation team do a tier II DV and then we can prepare a submittal. So, we're looking at ~ 3-4 weeks. Per the 3/4/2011 email that you approved, we were to submit a sampling plan to OCD by 3/24/2011. The 3/4 email states that samples would be collected w/ in one month of OCD approval of the plan. Samples would be analyzed using normal turnaround time and official background data would be submitted to OCD w/ in one month of receipt of complete and accurate data.

Our plan to move forward without an additional sampling plan was submitted to you on 3/7/2011. You responded to this email on 3/8/2011 and had no comments regarding deadlines.

Thanks,
Ed

Ed Riege
Environmental Manager

Western Refining
Gallup Refinery
Route 3 Box 7
Gallup, NM 87301
(505) 722-0217
ed.riege@wnr.com

Chavez, Carl J, EMNRD

From: Riege, Ed [Ed.Riege@wnr.com]
Sent: Monday, March 07, 2011 10:51 AM
To: Chavez, Carl J, EMNRD
Cc: Grant Price
Subject: FW: Email for Carl re: OCD landfarms/background

Hi Carl,

I'm sending this email to follow up with our conversation on 3/4/2011. For clarification, as you requested: The Northeast Landfarm is the refinery's only temporary OCD landfarm. The refinery wishes to close this landfarm prior to the expiration of the current Discharge Permit (August 1, 2011). The Central Landfarm is the refinery's only permanent OCD landfarm. This landfarm is currently at capacity and the refinery would like to eventually remove/reuse the soil that is currently in this landfarm so that the landfarm may be used to treat new soil.

Below are a list of action items/paths forward that we discussed. If you feel that any of these do not accurately convey what we discussed, please let me know so we can clarify.

Action items regarding additional background sampling:

After realizing that the unofficial 2/17/2010 background data set does not include all of the 20.6.2.3101 NMAC analytes, Western proposed to collect additional background data in an email on 3/4/2011. Western proposed to submit an additional background sampling plan to OCD by 3/24/2011. Per our conversation on 3/4/2011, OCD would like Western to collect additional background samples from the same general location of the original samples using the same procedures that were used to collect the original samples. OCD would like Western to analyze the sample for all analytes that are on the 20.6.2.3101 NMAC list that were not analyzed with the original data set. Due to the simplicity of this approach, Western does not think that an additional sampling plan is warranted, and therefore does not plan to submit another correspondence regarding this issue prior to 3/24/2011. Please let me know if you disagree. Western would like to propose one small variation from what was discussed. Instead of analyzing for all constituents that are on the 20.6.2.3101 NMAC list that were not analyzed with the original data set, Western proposes to reanalyze the entire 20.6.2.3101 list. The additional data would help supplement the existing data set and verify that there have been no temporal changes. The sample would be a single 5-point composite collected from the same general area that the original samples were collected.

Action items regarding the NE Landfarm:

As we discussed, Western would like to reuse soil in the NE Landfarm for Evaporation Pond berm repairs. However, OCD requires that the soil in the landfarm meet C-137 requirements and 20.6.2.3101 NMAC/20X dilution (3103) requirements prior to being used in such a manner. Based on the 11/2010 data, the landfarm does not meet 3103 requirements for some inorganics. Per our conversation, Western will attempt to excavate potential hot spots based on the 11/2010 data and will resample to see if C-137 and 3103 requirements are met. If they are met, Western will submit a Final Closure Report per form C-137. If they are not met, Western would like to evaluate whether or not the 3103 exceedances are due to naturally occurring background concentrations. If it appears that the exceedances are due to background concentrations, Western would like OCD to reconsider use of the soils for Evaporation Pond berm repair.

Action items regarding the Central Landfarm:

Per the current discharge permit, for soils to be removed from the Central landfarm, they must meet closure standards. Per our conversation on 3/4/2011, OCD utilizes the C-137 requirements in conjunction with the higher of background/3103. However, OCD said that the refinery may collect additional samples and analyze them for TCLP instead of using the 3103 20X dilution rule. This could allow for a more accurate comparison with the 3103 standards. Western would like to take this approach to verify the current exceedances. Also, the collection of additional

background data may change the evaluation of the current data. Western would like to wait until additional background data and TCLP data are obtained prior to determining the appropriate path forward.

Thanks,
Ed

Ed Riege
Environmental Manager

Western Refining
Gallup Refinery
Route 3 Box 7
Gallup, NM 87301
(505) 722-0217
ed.riege@wnr.com

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, March 08, 2011 10:53 AM
To: 'Riege, Ed'
Cc: Grant Price
Subject: RE: Email for Carl re: OCD landfarms/background (GW-032) Landfarms

Ed:

Good morning. Please see my responses in red italicized text below. Yes, we should work to beat the expiration date of the discharge permit on the temporary landfarm closure.

Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/oed/index.htm>
"Why not Prevent Pollution; Minimize Waste; Reduce the Cost of Operations; & Move Forward with the Rest of the Nation?" To see how, go to "Pollution Prevention & Waste Minimization" at:
<http://www.emnrd.state.nm.us/oed/environmental.htm#environmental>)

From: Riege, Ed [<mailto:Ed.Riege@wnr.com>]
Sent: Monday, March 07, 2011 10:51 AM
To: Chavez, Carl J, EMNRD
Cc: Grant Price
Subject: FW: Email for Carl re: OCD landfarms/background

Hi Carl,

I'm sending this email to follow up with our conversation on 3/4/2011. For clarification, as you requested: The Northeast Landfarm is the refinery's only temporary OCD landfarm. The refinery wishes to close this landfarm prior to the expiration of the current Discharge Permit (August 1, 2011). The Central Landfarm is the refinery's only permanent OCD landfarm. This landfarm is currently at capacity and the refinery would like to eventually remove/reuse the soil that is currently in this landfarm so that the landfarm may be used to treat new soil.

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therefore does not plan to submit another correspondence regarding this issue prior to 3/24/2011. Please let me know if you disagree. Western would like to propose one small variation from what was discussed. Instead of analyzing for all constituents that are on the 20.6.2.3101 NMAC list that were not analyzed with the original data set, Western proposes to reanalyze the entire 20.6.2.3101 list. The additional data would help supplement the existing data set and verify that there have been no temporal changes. The sample would be a single 5-point composite collected from the same general area that the original samples were collected. *A soil type description, i.e., Chinle clay, silt, sand, etc., may be appropriate here too. When a decision needs to be made on "beneficial use" of soils the operator will need to consider based on the concentrations the dermal contact and inhalation pathways or routes of exposure to make the case to the OCD that the materials meet "beneficial use". This is the way it should proceed based on the analyticals. We may find that even though the material passes OCD criteria, there are still concerns with using the material in the manner proposed by the operator.*

Action items regarding the NE Landfarm:

As we discussed, Western would like to reuse soil in the NE Landfarm for Evaporation Pond berm repairs. However, OCD requires that the soil in the landfarm meet C-137 requirements and 20.6.2.3101 NMAC/20X dilution (3103) requirements prior to being used in such a manner. Based on the 11/2010 data, the landfarm does not meet 3103 requirements for some inorganics. Per our conversation, Western will attempt to excavate potential hot spots based on the 11/2010 data and will resample to see if C-137 and 3103 requirements are met. *Provide final signed C-138 form(s) from the OCD permitted facility to verify the volume of any excavated wastes from this landfarm.* If they are met, Western will submit a Final Closure Report per form C-137. If they are not met, Western would like to evaluate whether or not the 3103 exceedances are due to naturally occurring background concentrations. If it appears that the exceedances are due to background concentrations, Western would like OCD to reconsider use of the soils for Evaporation Pond berm repair. *A soil type description, i.e., Chinle clay, silt, sand, etc., may be appropriate here too. When a decision needs to be made on "beneficial use" of soils the operator will need to consider based on the concentrations the dermal contact and inhalation pathways or routes of exposure to make the case to the OCD that the materials meet "beneficial use". This is the way it should proceed based on the analyticals. We may find that even though the material passes OCD criteria, there are still concerns with using the material in the manner proposed by the operator.*

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Thanks,
Ed

Ed Riege
Environmental Manager

Western Refining
Gallup Refinery
Route 3 Box 7
Gallup, NM 87301
(505) 722-0217
ed.riege@wnr.com

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, March 02, 2011 7:44 AM
To: 'Riege, Ed'
Subject: Western Refining SW, Inc. - Gallup Refinery (GW-032) & Temporary Central and NE Land Farm Closure Under the Discharge Permit

Ed:

Good morning. I'm back at it.

I'll expect to receive the formalized official permit land farms background values for the 20.6.2.3101 NMAC that we've been discussing by COB March 24, 2011 (I'm marking my calendar). These background values will not apply to the temporary land farms used by Western at the facility. I notice in you 2/4/2011 letter with attached tables there are background values listed and I am unsure of how these background limits were derived for the NE and Central Temporary Landfarms? You sent me some Hall Environmental background results that Raj had collected on 2/17/2010 and when I compare background in the tables they do not match; however, this is a mute point for the temporary NE and Central Landfarm areas. Consequently, Western and the OCD do need to agree on background limits for the official landfarm areas in the OCD discharge permit.

Regarding the temporary NE and Central landfarm areas and corrective actions, Western needs to use the C-137 Forms Criteria for Small Landfarms and soil analytical (mg/kg) divided by a DF of 20 to compare with the § 20.6.2.3103 NMAC Criteria (mg/L). Based on this evaluation, Western should propose final disposition of the waste in the temporary landfarms. Western could also decide to perform an excavation and resample in these areas for the evaluation? We need to work to get these areas addressed to comply the temporary landfarm section(s) of the OCD discharge permit.

Please contact me if you have questions or you think we need to discuss the above in more detail. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us

Website: <http://www.emnrd.state.nm.us/ocd/index.htm>

"Why not Prevent Pollution; Minimize Waste; Reduce the Cost of Operations; & Move Forward with the Rest of the Nation?" To see how, go to "Pollution Prevention & Waste Minimization" at:

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From: Riege, Ed [<mailto:Ed.Riege@wnr.com>]
Sent: Thursday, February 24, 2011 9:50 AM
To: Chavez, Carl J, EMNRD
Cc: Grant Price
Subject: RE: Land Farms - 1002391 Background Soil Samples

Hi Carl,

To answer the question in your second paragraph, yes, the background concentration should be the greater of the result value and/or the PQL in the Hall Environmental Analysis Lab QA/QC data report. Actually, it should probably be the greater of the result or the detection limit. But, Hall uses the PQL for the detection limit, so in this case, what you stated is correct.

Ed

Ed Riege
Environmental Manager

Western Refining
Gallup Refinery
Route 3 Box 7
Gallup, NM 87301
(505) 722-0217
ed.riege@wnr.com

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Please call to communicate or respond to this message to establish documentation of the above conditions. I will continue to work on a response to your 2/4/2011 letter.

Thank you.

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Grant with Trihydro suggested I send this to you regarding background sampling.

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To: 'Riege, Ed'
Subject: FW: Land Farms - 1002391 Background Soil Samples

Hi Ed,

Got your email. I'll call to discuss.

Grant

From: Lieb, Jim [mailto:Jim.Lieb@wnr.com]
Sent: Thursday, September 02, 2010 2:32 PM
To: Grant Price
Cc: Riege, Ed; Rajen, Gaurav; Morgan, Loretta; Dorsey, Alvin
Subject: FW: Land Farms - 1002391 Background Soil Samples

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Any questions, please contact me as Ed is out rest of this week.

Jim Lieb
Environmental Engineer

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Gallup Refinery
I-40, Exit 39
Route 3, Box 7
Gallup, NM 87301

Safety Starts With An "S", But Always Begins With "You"

From: Rajen, Gaurav
Sent: Thursday, September 02, 2010 12:14 PM
To: Lieb, Jim; Riege, Ed; Morgan, Loretta; Dorsey, Alvin
Subject: FW: Land Farms - 1002391

Here is the background soil sample data – I believe you all had been copied. I think it is good and usable. I just wondered if we had been forced to get into a different soil profile. We were right at the edge of soil 212, but the next one over is very similar in any case.

When Adam and I went out there to get the GPS points we got stuck. Alvin and I had had better luck. I will try and find the GPS coordinates.

From: Vicki Brown [mailto:vickie@hallenvironmental.com]
Sent: Friday, March 12, 2010 1:48 PM
To: Rajen, Gaurav
Cc: Riege, Ed; Johnson, Cheryl; Larsen, Thurman; Dorsey, Alvin; Lieb, Jim
Subject: Land Farms - 1002391

--

This message has been scanned for viruses and dangerous content by **MailScanner**, and is believed to be clean.

C. The standards are not intended as maximum ranges and concentrations for use, and nothing herein contained shall be construed as limiting the use of waters containing higher ranges and concentrations. [2-18-77; 20.6.2.3101 NMAC - Rn, 20 NMAC 6.2.III.3101, 1-15-01]

20.6.2.3102: [RESERVED]

[12-1-95; 20.6.2.3102 NMAC - Rn, 20 NMAC 6.2.III.3102, 1-15-01]

20.6.2.3103 STANDARDS FOR GROUND WATER OF 10,000 mg/l TDS CONCENTRATION OR

LESS: The following standards are the allowable pH range and the maximum allowable concentration in ground water for the contaminants specified unless the existing condition exceeds the standard or unless otherwise provided in Subsection D of Section 20.6.2.3109 NMAC. Regardless of whether there is one contaminant or more than one contaminant present in ground water, when an existing pH or concentration of any water contaminant exceeds the standard specified in Subsection A, B, or C of this section, the existing pH or concentration shall be the allowable limit, provided that the discharge at such concentrations will not result in concentrations at any place of withdrawal for present or reasonably foreseeable future use in excess of the standards of this section. These standards shall apply to the dissolved portion of the contaminants specified with a definition of dissolved being that given in the publication "*methods for chemical analysis of water and waste of the U.S. environmental protection agency*," with the exception that standards for mercury, organic compounds and non-aqueous phase liquids shall apply to the total unfiltered concentrations of the contaminants.

A. Human Health Standards-Ground water shall meet the standards of Subsection A and B of this section unless otherwise provided. If more than one water contaminant affecting human health is present, the toxic pollutant criteria as set forth in the definition of toxic pollutant in Section 20.6.2.1101 NMAC for the combination of contaminants, or the Human Health Standard of Subsection A of Section 20.6.2.3103 NMAC for each contaminant shall apply, whichever is more stringent. Non-aqueous phase liquid shall not be present floating atop of or immersed within ground water, as can be reasonably measured.

(1)	Arsenic (As).....	0.1 mg/l
(2)	Barium (Ba).....	1.0 mg/l
(3)	Cadmium (Cd).....	0.01 mg/l
(4)	Chromium (Cr).....	0.05 mg/l
(5)	Cyanide (CN).....	0.2 mg/l
(6)	Fluoride (F).....	1.6 mg/l
(7)	Lead (Pb).....	0.05 mg/l
(8)	Total Mercury (Hg).....	0.002 mg/l
(9)	Nitrate (NO ₃ as N).....	10.0 mg/l
(10)	Selenium (Se).....	0.05 mg/l
(11)	Silver (Ag).....	0.05 mg/l
(12)	Uranium (U).....	0.03 mg/l
(13)	Radioactivity: Combined Radium-226 & Radium-228.....	30 pCi/l
(14)	Benzene.....	0.01 mg/l
(15)	Polychlorinated biphenyls (PCB's).....	0.001 mg/l
(16)	Toluene.....	0.75 mg/l
(17)	Carbon Tetrachloride.....	0.01 mg/l
(18)	1,2-dichloroethane (EDC)	0.01 mg/l
(19)	1,1-dichloroethylene (1,1-DCE)	0.005 mg/l
(20)	1,1,2,2-tetrachloroethylene (PCE)	0.02 mg/l
(21)	1,1,2-trichloroethylene (TCE)	0.1 mg/l
(22)	ethylbenzene.....	0.75 mg/l
(23)	total xylenes.....	0.62 mg/l
(24)	methylene chloride.....	0.1 mg/l
(25)	chloroform.....	0.1 mg/l
(26)	1,1-dichloroethane.....	0.025 mg/l
(27)	ethylene dibromide (EDB)	0.0001 mg/l
(28)	1,1,1-trichloroethane.....	0.06 mg/l
(29)	1,1,2-trichloroethane.....	0.01 mg/l
(30)	1,1,2,2-tetrachloroethane.....	0.01 mg/l
(31)	vinyl chloride.....	0.001 mg/l

- (32) PAHs: total naphthalene plus monomethylnaphthalenes0.03 mg/l
- (33) benzo-a-pyrene.....0.0007 mg/l

B. Other Standards for Domestic Water Supply

- (1) Chloride (Cl)250.0 mg/l
- (2) Copper (Cu)1.0 mg/l
- (3) Iron (Fe)1.0 mg/l
- (4) Manganese (Mn)0.2 mg/l
- (6) Phenols.....0.005 mg/l
- (7) Sulfate (SO₄)600.0 mg/l
- (8) Total Dissolved Solids (TDS)1000.0 mg/l
- (9) Zinc (Zn)10.0 mg/l
- (10) pH.....between 6 and 9

C. Standards for Irrigation Use - Ground water shall meet the standards of Subsection A, B, and C of this section unless otherwise provided.

- (1) Aluminum (Al).....5.0 mg/l
- (2) Boron (B)0.75 mg/l
- (3) Cobalt (Co)0.05 mg/l
- (4) Molybdenum (Mo)1.0 mg/l
- (5) Nickel (Ni)0.2 mg/l

[2-18-77, 1-29-82, 11-17-83, 3-3-86, 12-1-95; 20.6.2.3103 NMAC - Rn, 20 NMAC 6.2.III.3103, 1-15-01; A, 9-26-04]

[Note: For purposes of application of the amended numeric uranium standard to past and current water discharges (as of 9-26-04), the new standard will not become effective until June 1, 2007. For any new water discharges, the uranium standard is effective 9-26-04.]

20.6.2.3104 DISCHARGE PERMIT REQUIRED: Unless otherwise provided by this Part, no person shall cause or allow effluent or leachate to discharge so that it may move directly or indirectly into ground water unless he is discharging pursuant to a discharge permit issued by the secretary. When a permit has been issued, discharges must be consistent with the terms and conditions of the permit. In the event of a transfer of the ownership, control, or possession of a facility for which a discharge permit is in effect, the transferee shall have authority to discharge under such permit, provided that the transferee has complied with Section 20.6.2.3111 NMAC, regarding transfers. [2-18-77, 12-24-87, 12-1-95; Rn & A, 20.6.2.3104 NMAC - 20 NMAC 6.2.III.3104, 1-15-01; A, 12-1-01]

20.6.2.3105 EXEMPTIONS FROM DISCHARGE PERMIT REQUIREMENT: Sections 20.6.2.3104 and 20.6.2.3106 NMAC do not apply to the following:

A. Effluent or leachate which conforms to all the listed numerical standards of Section 20.6.2.3103 NMAC and has a total nitrogen concentration of 10 mg/l or less, and does not contain any toxic pollutant. To determine conformance, samples may be taken by the agency before the effluent or leachate is discharged so that it may move directly or indirectly into ground water; provided that if the discharge is by seepage through non-natural or altered natural materials, the agency may take samples of the solution before or after seepage. If for any reason the agency does not have access to obtain the appropriate samples, this exemption shall not apply;

B. Effluent which is discharged from a sewerage system used only for disposal of household and other domestic waste which is designed to receive and which receives 2,000 gallons or less of liquid waste per day;

C. Water used for irrigated agriculture, for watering of lawns, trees, gardens or shrubs, or for irrigation for a period not to exceed five years for the revegetation of any disturbed land area, unless that water is received directly from any sewerage system;

D. Discharges resulting from the transport or storage of water diverted, provided that the water diverted has not had added to it after the point of diversion any effluent received from a sewerage system, that the source of the water diverted was not mine workings, and that the secretary has not determined that a hazard to public health may result;

E. Effluent which is discharged to a watercourse which is naturally perennial; discharges to dry arroyos and ephemeral streams are not exempt from the discharge permit requirement, except as otherwise provided in this section;

F. Those constituents which are subject to effective and enforceable effluent limitations in a National Pollutant Discharge Elimination System (NPDES) permit, where discharge onto or below the surface of the ground so that water contaminants may move directly or indirectly into ground water occurs downstream from the outfall

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

For State Use Only:
Registration #

Form C-137 EZ
Revised August 3, 2009

Submit 1 Copy to Santa Fe Office

REGISTRATION/ FINAL CLOSURE REPORT FOR SMALL LANDFARM

Section 7 of 19.15.36 NMAC defines a small landfarm as a centralized landfarm of two acres or less that has a total capacity of 2000 cubic yards or less in a single lift of eight inches or less, remains active for a maximum of three years from the date of its registration and that receives only petroleum hydrocarbon-contaminated soils (excluding drill cuttings) that are exempt or non-hazardous waste. The operator shall operate only one active small landfarm per governmental section at any time.

GENERAL INFORMATION

1. ☐ Small Landfarm Registration ☐ Small Landfarm Final Closure Report*
(*Must be submitted within three years from the registration date)
2. Operator: _____
Address: _____
Contact Person: _____ Phone: _____
3. Location: _____/4 _____/4 Section _____ Township _____ Range _____

REGISTRATION

1. As operator, are you the surface estate owner of the proposed site? ☐ Yes ☐ No If no, please attach a certification statement that demonstrates a written agreement is established with the surface estate owner authorizing the use of the site for the proposed small landfarm.
2. Will the proposed small landfarm comply with the siting requirements of Subsections A and B of 19.15.36.13 NMAC?
☐ Yes ☐ No
- A. Depth to ground water.
- No small landfarm shall be located where ground water is less than 50 feet below the lowest elevation at which the operator will place oil field waste.
- B. No surface waste management facility shall be located:
- within 200 feet of a watercourse, lakebed, sinkhole or playa lake;
 - within an existing wellhead protection area or 100-year floodplain;
 - within, or within 500 feet of, a wetland;
 - within the area overlying a subsurface mine;
 - within 500 feet from the nearest permanent residence, school, hospital, institution or church in existence at the time of initial application; or
 - within an unstable area, unless the operator demonstrates that engineering measures have been incorporated into the surface waste management facility design to ensure that the surface waste management facility's integrity will not be compromised.
3. Attach a plat and topographic map showing the small landfarm's location in relation to governmental surveys (quarter-quarter section, township and range); highways or roads giving access to the small landfarm site; watercourses; fresh water sources, including wells and springs; oil and gas wells or other production facilities; and inhabited buildings within one mile of the site's perimeter.
- Based on the information provided with this submittal, registration of a small landfarm can only be granted if the operator complies with the following understandings and conditions:
- The operator shall operate only one active small landfarm per governmental section at any time. No small landfarm shall be located more than one mile from the operator's nearest oil or gas well or other production facility.
 - The operator shall accept only exempt or non-hazardous wastes consisting of soils (excluding drill cuttings) generated as a result of accidental releases from production operations, that are predominantly contaminated by petroleum hydrocarbons, do not contain free liquids, would pass the paint filter test and where testing shows chloride concentrations are 500 mg/kg or below.
 - The operator shall berm the landfarm to prevent rainwater run-on and run-off.
 - The operator shall post a sign at the site readable from a distance of 50 feet and listing the operator's name; small landfarm registration number; location by unit letter, section, township and range; expiration date; and an emergency contact telephone number.
 - The operator shall spread and disk contaminated soils in a single eight inch or less lift within 72 hours of receipt. The operator shall conduct treatment zone monitoring to ensure that the TPH concentration, as determined by EPA SW-846 method 8015M or EPA method 418.1 or other EPA method approved by the division, does not exceed 2500 mg/kg; and that the chloride

concentration, as determined by EPA method 300.1, does not exceed 500 mg/kg. The operator shall treat soils by disking at least once a month and by watering and adding bioremediation enhancing materials when needed.

- The operator shall maintain records reflecting the generator, the location of origin, the volume and type of oil field waste, the date of acceptance and the hauling company for each load of oil field waste received. The division shall post on its website each small landfarm's location, operator and registration date. In addition, the operator shall maintain records of the small landfarm's remediation activities in a form readily accessible for division inspection. The operator shall maintain all records for five years following the small landfarm's closure.

- The operator shall submit a final closure report on a form C-137 EZ, together with photographs of the closed site, to the environmental bureau in the division's Santa Fe office.

CERTIFICATION

I hereby certify that the information submitted with this registration is true, accurate and complete to the best of my knowledge and belief and agree to the understandings and conditions of this registration.

Name: _____

Title: _____

Signature: _____

Date: _____

E-mail Address: _____

OCD REGISTRATION: ☐ Approved. Date : _____ ☐ Denied. Date: _____

Comments: _____

OCD Representative Signature: _____

Title: _____ **OCD Registration Number:** _____

FINAL CLOSURE REPORT

Were the landfarmed soils able to achieve the closure performance standards, listed below, within three years from the registration date? ☐ Yes ☐ No (Please provide laboratory analytical results)

- benzene, as determined by EPA SW-846 method 8021 B or 8260B, shall not exceed 0.2 mg/kg;
- Total BTEX, as determined by EPA SW-846 method 8021 B or 8260B, shall not exceed 50 mg/kg;
- TPH, as determined by EPA SW-846 method 418.1 or other EPA method approved by the division, shall not exceed 2500 mg/kg; the GRO and DRO combined fraction, as determined by EPA SW-846 method 8015M, shall not exceed 500 mg/kg; and
- chlorides, as determined by EPA method 300.1, shall not exceed 500 mg/kg.

If yes, were the additional closure requirements listed below satisfied? ☐ Yes ☐ No (Please provide photos)

- The operator shall re-vegetate soils remediated to the closure performance standards if left in place in accordance with Paragraph (6) of Subsection A of 19.15.36.18 NMAC.
- If the operator returns remediated soils to the original site, or with division permission, recycles them, re-vegetate the cell filled in with native soil to the standards in Paragraph (6) of Subsection A of 19.15.36.18 NMAC;
- The operator shall remove berms on the small landfarm and buildings, fences, roads and equipment; and
- The operator shall clean up the site and collect one vadose zone soil sample from three to five feet below the middle of the treatment zone, or in an area where liquids may have collected due to rainfall events; the vadose zone soil sample shall be collected and analyzed using the methods specified above for TPH, BTEX and chlorides.

If no, were the landfarmed soils that have not or cannot be remediated to the closure performance standards within three years removed to a division-approved surface waste management facility, and the cell filled in with native soil to the standards in Paragraph (6) of Subsection A of 19.15.36.18 NMAC and re-vegetated? ☐ Yes ☐ No (Please provide photos)

CERTIFICATION

I hereby certify that the information submitted with this final closure report is true, accurate and complete to the best of my knowledge and belief.

Name: _____

Title: _____

Signature: _____

Date: _____

E-mail Address: _____

OCD CLOSURE REVIEW: ☐ Closure Approved. Date : _____ ☐ Closure Denied. Date: _____

Comments: _____

OCD Representative Signature: _____

Title: _____ **OCD Registration Number:** _____

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Gallup, NM 87301

Safety Starts With An "S", But Always Begins With "You"

From: Rajen, Gaurav
Sent: Thursday, September 02, 2010 12:14 PM
To: Lieb, Jim; Riege, Ed; Morgan, Loretta; Dorsey, Alvin
Subject: FW: Land Farms - 1002391

Here is the background soil sample data – I believe you all had been copied. I think it is good and usable. I just wondered if we had been forced to get into a different soil profile. We were right at the edge of soil 212, but the next one over is very similar in any case.

When Adam and I went out there to get the GPS points we got stuck. Alvin and I had had better luck. I will try and find the GPS coordinates.

From: Vicki Brown [mailto:vickie@hallenenvironmental.com]
Sent: Friday, March 12, 2010 1:48 PM
To: Rajen, Gaurav
Cc: Riege, Ed; Johnson, Cheryl; Larsen, Thurman; Dorsey, Alvin; Lieb, Jim
Subject: Land Farms - 1002391

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This message has been scanned for viruses and dangerous content by **MailScanner**, and is believed to be clean.

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Thursday, February 17, 2011 3:23 PM
To: 'Riege, Ed'
Subject: FW: Western Refining Southwest- Gallup Refinery (GW-032) Latest sampling results from our land-farms & collection of representative background sample for the land farms
Attachments: determination of background.doc

Ed:

Finally, Based on the previous e-mails I forwarded you today from Raj, I just don't think OCD ever received a background report with OCD requested background levels that Raj promised? I don't have anything in the OCD's online system "Landfarms" that documents this was ever done.

Let me know what you think so we can move forward on this issue under the existing permitted landfarms? I don't think it may be an issue for the temporary landfarms right now and I am currently reviewing the attachments to your February 4, 2011 letter. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us

Website: <http://www.emnrd.state.nm.us/ocd/index.htm>

"Why not Prevent Pollution; Minimize Waste; Reduce the Cost of Operations; & Move Forward with the Rest of the Nation?" To see how, go to "Pollution Prevention & Waste Minimization" at:
<http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental>)

From: Chavez, Carl J, EMNRD
Sent: Tuesday, July 21, 2009 2:45 PM
To: 'Rajen, Gaurav'
Subject: FW: Western Refining Southwest- Gallup Refinery (GW-032) Latest sampling results from our land-farms & collection of representative background sample for the land farms

Raj:

I think Hope is thinking more about determining the natural background concentrations in ground water upgradient from the facility?

If you would like to follow Hope's guidance for establishing background under the Order and RCRA, please feel free to do so. I believe the magic number for statistics is a sample population of at least 9 samples. Perhaps the landfarm area is a SWMU under RCRA?

If you wish to establish background for the OCD permitted landfarm, you may proceed as we discussed.

Please contact me if you have questions Thanks.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us

Website: <http://www.emnrd.state.nm.us/ocd/index.htm>
(Pollution Prevention Guidance is under "Publications")

From: Monzeglio, Hope, NMENV
Sent: Tuesday, July 21, 2009 2:22 PM
To: Chavez, Carl J, EMNRD; 'Rajen, Gaurav'
Cc: 'Riege, Ed'; 'Larsen, Thurman'; Cobrain, Dave, NMENV
Subject: RE: Western Refining Southwest- Gallup Refinery (GW-032) Latest sampling results from our land-farms & collection of representative background sample for the land farms

I have attached NMED's approach for determination of background. This is a requirement found in the Bloomfield Order dated July 27, 2007, Section VIII.H.

Hope

From: Chavez, Carl J, EMNRD
Sent: Friday, July 17, 2009 11:15 AM
To: Rajen, Gaurav; Monzeglio, Hope, NMENV; Cobrain, Dave, NMENV
Cc: Riege, Ed; Larsen, Thurman
Subject: Western Refining Southwest- Gallup Refinery (GW-032) Latest sampling results from our land-farms & collection of representative background sample for the land farms

Raj:

Per our telephone call this morning. The OCD agrees with Western Refining SW's (WRSW) background sample approach for the landfarm. WRSW will use the soil conservation soil type publication to locate a similar soil type off-property and upslope to the refinery and obtain a 5 point composite sample from 6 to 12 inches below ground level. The constituents (TPH (8015M & 418.1), Chlorides (300), 20.6.2.3103, etc. to be monitored are specified under the discharge permit Section 21(F)(1-5).

WRSW may also want to consider discussions on determining background for the facility for spills and releases and the reliance on cleanup to higher of background, PQL, etc. We welcome any discussions about this to include NMED.

Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/ocd/index.htm>
(Pollution Prevention Guidance is under "Publications")

From: Rajen, Gaurav [<mailto:Gaurav.Rajen@wnr.com>]
Sent: Thursday, July 16, 2009 11:48 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Riege, Ed; Larsen, Thurman
Subject: Latest sampling results from our land-farms

Dear Carl:

It is a pleasure to write and share with you our latest semi-annual sampling results from our permitted land farms – the OCD Land Farm is to the south-west of our facility; and the NE Land Farm is the temporary land farm in the North-east section.

Table 1 provides a summary of our results; and the attachment gives analytical data. (You will note that in the laboratory results there is an additional sample from the Railroad Rack Lagoon Fan-out area work we are doing under Hope's direction.)

Sample Location and ID	BTEX	TPH (ppm)	Chlorides (ppm)
Background (LFOCD-001-062509)	ND	72	1500
OCD Land Farm – composite from treatment zone (LFOCD-003-062509)	Not analyzed (not mandated by OCD permit GW-032)	12,000	230
OCD Land Farm – vadose zone (LFOCD-002-062509)	ND	ND	240
OCD Land Farm – vadose zone (LFOCD-004-062509)	ND	ND	240
OCD Land Farm – vadose zone (LFOCD-005-062509)	ND	ND	180
OCD Land Farm – vadose zone (LFOCD-006-062509)	ND	180	240
NE Land Farm – composite from treatment zone (LFNE-007-062509)	Not analyzed (not mandated by OCD permit GW-032)	240	140
NE Land Farm – vadose zone (LFNE-008-062509)	ND	24	87
NE Land Farm – vadose zone (LFNE-009-062509)	ND	39	130
NE Land Farm – vadose zone (LFNE-010-062509)	ND	36	150
NE Land Farm – vadose zone (LFNE-011-062509)	ND	ND	150

The NE land farm recently received material from our excavation of the rail-road rack lagoon fan-out area. As you can see – from our composite sample, we are likely already below clean-up standards for this lift. However, excavation is on-going and we will be adding more material. After we have disked and watered for a month, we will resample and send you our disposition plans and a description of our perhaps having met the closure performance standards.

The purpose of this letter is to alert you to the fact that at the OCD land farm one of our vadose zone samples had a TPH level of 180 ppm (background is 72 ppm). We plan to resample as per our permit GW-032. There is a possibility that the equipment we used (a back-hoe) may have cross-contaminated between the treatment zone sample and the vadose zone sample. We will take care to decontaminate the back-hoe more thoroughly this time when we resample to preclude such a possibility.

If the vadose zone sample is again higher than the background sample, we will prepare and send you our response action plan.

Our background sample was collected in a non-impacted field near the OCD Land Farm. We believe the TPH levels we find in the background sample are from deposition of hydrocarbon vapors and particulates through the air – these could come from the refinery and to a lesser extent from the Interstate -40, as well as vehicles driving on adjacent roads. As the intent of the background sample is to determine if the material placed on the land farm is leaching into the subsurface and vadose zone, we feel it is important to use a local surface soil sample to represent what would have been concentrations in the land farm soils if no material had been placed within.

You will notice that the background sample is high in chlorides – this is likely because of vegetation in the field where the background sample was collected. In desert soils, such as ours, plants can change salt concentrations considerably in soils around the plants and roots; and rain water, too, can leach salts and then raise surface soil concentrations of salts upon evaporation. If you have any thoughts on the location and nature of the background sample, please send them on to us.

We have been trying to find which soil sample in the past was used as representative of the background. As we could not find such data readily, we have taken a new background sample from an adjacent field to the OCD land farm.

Best regards,

Raj

This inbound email has been scanned by the MessageLabs Email Security System.

Chavez, Carl J, EMNRD

From: Riege, Ed [Ed.Riege@wnr.com]
Sent: Tuesday, February 22, 2011 9:03 AM
To: Chavez, Carl J, EMNRD
Cc: Grant Price
Subject: FW: Land Farms - 1002391 Background Soil Samples
Attachments: 1002391.pdf; GPS points.pdf

Carl,
Grant with Trihydro suggested I send this to you regarding background sampling.

Ed

Ed Riege
Environmental Manager

Western Refining
Gallup Refinery
Route 3 Box 7
Gallup, NM 87301
(505) 722-0217
ed.riege@wnr.com

From: Grant Price [<mailto:gprice@trihydro.com>]
Sent: Tuesday, February 22, 2011 8:58 AM
To: Riege, Ed
Subject: FW: Land Farms - 1002391 Background Soil Samples

This is what I would send to Carl. This is the data that Raj collected that appears to be in accordance w/ what Raj and Carl had discussed. One file is the lab data, the other is a map showing where the samples came from. It appears that the 5 locations labeled SS-1 through SS-5 are where the composites were collected from.

From: Grant Price
Sent: Thursday, February 17, 2011 10:23 AM
To: 'Riege, Ed'
Subject: FW: Land Farms - 1002391 Background Soil Samples

Hi Ed,

Got your email. I'll call to discuss.

Grant

From: Lieb, Jim [<mailto:Jim.Lieb@wnr.com>]
Sent: Thursday, September 02, 2010 2:32 PM
To: Grant Price
Cc: Riege, Ed; Rajen, Gaurav; Morgan, Loretta; Dorsey, Alvin
Subject: FW: Land Farms - 1002391 Background Soil Samples

Grant:

I believe you can use this soils analysis data that was collected in February 2010 by Raj and Alvin for your data evaluation. The clean samples were taken at a location far to the north side of the refinery property. The sample data set should satisfy the OCD requirements for data integrity in OCD related sampling including the OCD landfarms judging from emails that were sent back and forth between Raj and Carl Chavez in September 2009. Please note that based on a Carl Chavez email to Raj on September 15, 2009, the NMED has stricter sampling requirements so I don't believe this data would suffice for them. But it should be OK for OCD related matters including the OCD landfarm sampling. If you would like to see the Raj/Carl Chavez emails I can forward them to you. A diagram of GPS points showing the background soil sample points is included.

Any questions, please contact me as Ed is out rest of this week.

Jim Lieb
Environmental Engineer
Western Refining, Inc.
Gallup Refinery
I-40, Exit 39
Route 3, Box 7
Gallup, NM 87301

Safety Starts With An "S", But Always Begins With "You"

From: Rajen, Gaurav
Sent: Thursday, September 02, 2010 12:14 PM
To: Lieb, Jim; Riege, Ed; Morgan, Loretta; Dorsey, Alvin
Subject: FW: Land Farms - 1002391

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When Adam and I went out there to get the GPS points we got stuck. Alvin and I had had better luck. I will try and find the GPS coordinates.

From: Vicki Brown [<mailto:vickie@hallenvironmental.com>]
Sent: Friday, March 12, 2010 1:48 PM
To: Rajen, Gaurav
Cc: Riege, Ed; Johnson, Cheryl; Larsen, Thurman; Dorsey, Alvin; Lieb, Jim
Subject: Land Farms - 1002391

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COVER LETTER

Friday, March 12, 2010

Gaurav Rajen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-0227

FAX (505) 722-0210

RE: Land Farms

Order No.: 1002391

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 2/19/2010 for the analyses presented in the following report.

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

Reporting limits are determined by EPA methodology.

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

Sincerely,

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

Andy Freeman, Laboratory Manager

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



Hall Environmental Analysis Laboratory, Inc.

Date: 12-Mar-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1002391
Project: Land Farms
Lab ID: 1002391-01

Client Sample ID: Background
Collection Date: 2/17/2010 9:00:00 AM
Date Received: 2/19/2010
Matrix: SOILL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 504.1 MODIFIED: EDB						Analyst: LRW
1,2-Dibromoethane	ND	0.10		µg/Kg	1	3/1/2010 1:41:02 PM
Surr: 1,2,3-Trichloropropane	105	58.9-128		%REC	1	3/1/2010 1:41:02 PM
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/23/2010 2:21:23 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/23/2010 2:21:23 PM
Surr: DNOP	88.6	61.7-135		%REC	1	2/23/2010 2:21:23 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/25/2010 2:22:59 PM
Surr: BFB	92.2	65.9-118		%REC	1	2/25/2010 2:22:59 PM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Fluoride	3.3	1.5		mg/Kg	5	2/20/2010 11:15:16 AM
Chloride	ND	7.5		mg/Kg	5	2/20/2010 11:15:16 AM
Nitrogen, Nitrate (As N)	2.2	1.5		mg/Kg	5	2/20/2010 11:15:16 AM
Sulfate	18	7.5		mg/Kg	5	2/20/2010 11:15:16 AM
EPA METHOD 7471: MERCURY						Analyst: SNV
Mercury	ND	0.033		mg/Kg	1	3/3/2010 1:02:57 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	3/1/2010 5:14:41 PM
Barium	310	1.0		mg/Kg	10	3/1/2010 5:45:12 PM
Cadmium	ND	0.50		mg/Kg	5	3/1/2010 5:14:41 PM
Chromium	8.0	1.5		mg/Kg	5	3/1/2010 5:14:41 PM
Copper	4.0	1.5		mg/Kg	5	3/1/2010 5:14:41 PM
Selenium	ND	13		mg/Kg	5	3/1/2010 5:14:41 PM
Silver	ND	1.3		mg/Kg	5	3/1/2010 5:14:41 PM
Uranium	ND	25		mg/Kg	5	3/3/2010 9:42:07 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: LBJ
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	2/26/2010 11:54:43 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	2/26/2010 11:54:43 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	2/26/2010 11:54:43 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	2/26/2010 11:54:43 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	2/26/2010 11:54:43 AM
2-Methylphenol	ND	0.50		mg/Kg	1	2/26/2010 11:54:43 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM
4-Nitrophenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Mar-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1002391
Project: Land Farms
Lab ID: 1002391-01

Client Sample ID: Background
Collection Date: 2/17/2010 9:00:00 AM
Date Received: 2/19/2010
Matrix: SOILL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: LBJ
Pentachlorophenol	ND	0.40		mg/Kg	1	2/26/2010 11:54:43 AM
Phenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM
Surr: 2,4,6-Tribromophenol	78.3	28.4-132		%REC	1	2/26/2010 11:54:43 AM
Surr: 2-Fluorobiphenyl	83.0	37.4-123		%REC	1	2/26/2010 11:54:43 AM
Surr: 2-Fluorophenol	79.5	28.6-110		%REC	1	2/26/2010 11:54:43 AM
Surr: 4-Terphenyl-d14	71.7	29.2-111		%REC	1	2/26/2010 11:54:43 AM
Surr: Nitrobenzene-d5	80.9	33.8-126		%REC	1	2/26/2010 11:54:43 AM
Surr: Phenol-d5	75.8	35.3-110		%REC	1	2/26/2010 11:54:43 AM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Toluene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Naphthalene	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	2/22/2010 12:46:03 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	2/22/2010 12:46:03 PM
Acetone	ND	0.75		mg/Kg	1	2/22/2010 12:46:03 PM
Bromobenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Bromoform	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Bromomethane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
2-Butanone	ND	0.50		mg/Kg	1	2/22/2010 12:46:03 PM
Carbon disulfide	ND	0.50		mg/Kg	1	2/22/2010 12:46:03 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
Chlorobenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Chloroethane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
Chloroform	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Chloromethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Dibromomethane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Mar-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1002391
 Project: Land Farms
 Lab ID: 1002391-01

Client Sample ID: Background
 Collection Date: 2/17/2010 9:00:00 AM
 Date Received: 2/19/2010
 Matrix: SOILL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
2-Hexanone	ND	0.50		mg/Kg	1	2/22/2010 12:46:03 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	2/22/2010 12:46:03 PM
Methylene chloride	ND	0.15		mg/Kg	1	2/22/2010 12:46:03 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Styrene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
Vinyl chloride	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
Surr: 1,2-Dichloroethane-d4	92.2	59.5-119		%REC	1	2/22/2010 12:46:03 PM
Surr: 4-Bromofluorobenzene	97.0	57.9-141		%REC	1	2/22/2010 12:46:03 PM
Surr: Dibromofluoromethane	99.7	65.4-122		%REC	1	2/22/2010 12:46:03 PM
Surr: Toluene-d8	91.0	81.1-112		%REC	1	2/22/2010 12:46:03 PM

EPA METHOD 418.1: TPH

Analyst: JB

Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	2/23/2010
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Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

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



ENERGY LABORATORIES, INC. • 2393 Salt Creek Highway (82601) • P.O. Box 3258 • Casper, WY 82602
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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1002391
Lab ID: C10020722-001
Client Sample ID: Background

Report Date: 03/12/10
Collection Date: 02/17/10 09:00
Date Received: 02/23/10
Matrix: Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
NON-METALS							
Cyanide, Total	ND	mg/kg		0.50		SW9012	03/01/10 13:05 / eli-b
RADIONUCLIDES - TOTAL							
Radium 226	1.5	pCi/g-dry			E903.0		03/10/10 13:09 / trs
Radium 226 precision (±)	0.2	pCi/g-dry			E903.0		03/10/10 13:09 / trs
Radium 226 MDC	0.06	pCi/g-dry			E903.0		03/10/10 13:09 / trs
Radium 228	1.1	pCi/g-dry			RA-05		03/05/10 11:20 / plj
Radium 228 precision (±)	0.4	pCi/g-dry			RA-05		03/05/10 11:20 / plj
Radium 228 MDC	0.6	pCi/g-dry			RA-05		03/05/10 11:20 / plj

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Hall Environmental
Project: 1002391

Report Date: 03/12/10
Work Order: C10020722

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: 25377
Sample ID: C10020722-001AMS Radium 226	Sample Matrix Spike 9.3	pCi/g-dry		104	70	130			03/10/10 13:09
Sample ID: C10020722-001AMSD Radium 226	Sample Matrix Spike Duplicate 9.1	pCi/g-dry		103	70	130	1:9	22.1	03/10/10 13:09
Sample ID: LCS-25377 Radium 226	Laboratory Control Sample 1.6	pCi/g-dry		98	70	130			03/10/10 13:09
Sample ID: MB-25377 Radium 226	Method Blank 6E-05	pCi/g-dry							03/10/10 13:09
Radium 226 precision (±)	0.0002	pCi/g-dry							U
Radium 226 MDC	0.0003	pCi/g-dry							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Hall Environmental
Project: 1002391

Report Date: 03/12/10
Work Order: C10020722

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05									Batch: 25377
Sample ID: LCS-25377	Laboratory Control Sample								Run: TENNELEC-3_100226C 03/05/10 11:20
Radium 228	1.6	pCi/g-dry		107	70	130			
Sample ID: MB-25377	Method Blank								Run: TENNELEC-3_100226C 03/05/10 11:20
Radium 228	0.005	pCi/g-dry							
Radium 228 precision (±)	0.002	pCi/g-dry							
Radium 228 MDC	0.003	pCi/g-dry							
Sample ID: C10020722-001AMS	Sample Matrix Spike								Run: TENNELEC-3_100226C 03/05/10 11:20
Radium 228	9.0	pCi/g-dry		110	70	130			
Sample ID: C10020722-001AMSD	Sample Matrix Spike Duplicate								Run: TENNELEC-3_100226C 03/05/10 11:20
Radium 228	9.0	pCi/g-dry		107	70	130	0.5	32.6	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Hall Environmental
Project: 1002391

Report Date: 03/12/10
Work Order: C10020722

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW9012							Batch: B_44783		
Sample ID: LCS-44783	Laboratory Control Sample				Run: SUB-B143898		03/01/10 12:30		
Cyanide, Total	4.6	mg/kg	0.50	92	60	140			
Sample ID: MB-44783	Method Blank				Run: SUB-B143898		03/01/10 12:35		
Cyanide, Total	ND	mg/kg	0.5						
Sample ID: C10020722-001B	Sample Matrix Spike				Run: SUB-B143898		03/01/10 13:06		
Cyanide, Total	4.7	mg/kg	0.50	94	50	150			
Sample ID: C10020722-001B	Sample Matrix Spike Duplicate				Run: SUB-B143898		03/01/10 13:16		
Cyanide, Total	3.5	mg/kg	0.50	71	50	150	28	30	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: Land Farms

Work Order: 1002391

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB-21439		MBLK									
Fluoride	ND	mg/Kg	0.30								
Chloride	ND	mg/Kg	1.5								
Nitrogen, Nitrate (As N)	ND	mg/Kg	0.30								
Sulfate	ND	mg/Kg	1.5								
Sample ID: LCS-21439		LCS									
Fluoride	1.551	mg/Kg	0.30	1.5	0	103	90	110			
Chloride	14.08	mg/Kg	1.5	15	0	93.9	90	110			
Nitrogen, Nitrate (As N)	7.248	mg/Kg	0.30	7.5	0	96.6	90	110			
Sulfate	28.92	mg/Kg	1.5	30	0	96.4	90	110			
Method: EPA Method 418.1: TPH											
Sample ID: MB-21464		MBLK									
Petroleum Hydrocarbons, TR	ND	mg/Kg	20								
Sample ID: LCS-21464		LCS									
Petroleum Hydrocarbons, TR	100.7	mg/Kg	20	100	0	101	82	114			
Sample ID: LCSD-21464		LCSD									
Petroleum Hydrocarbons, TR	104.8	mg/Kg	20	100	0	105	82	114			
Method: EPA Method 504.1 Modified: EDB											
Sample ID: 1002391-01AMSD		MSD									
1,2-Dibromoethane	1.055	µg/Kg	0.10	1	0	106	65.8	127	1.78	20	
Sample ID: MB-21511		MBLK									
1,2-Dibromoethane	ND	µg/Kg	0.10								
Sample ID: LCS-21511		LCS									
1,2-Dibromoethane	0.9170	µg/Kg	0.10	1	0	91.7	70	130			
Sample ID: LCSD-21511		LCSD									
1,2-Dibromoethane	1.001	µg/Kg	0.10	1	0	100	70	130	8.76	20	
Sample ID: 1002391-01AMS		MS									
1,2-Dibromoethane	1.074	µg/Kg	0.10	1	0	107	65.8	127			
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-21442		MBLK									
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-21442		LCS									
Diesel Range Organics (DRO)	43.20	mg/Kg	10	50	0	86.4	64.6	116			
Sample ID: LCSD-21442		LCSD									
Diesel Range Organics (DRO)	41.16	mg/Kg	10	50	0	82.3	64.6	116	4.82	17.4	

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Land Farms

Work Order: 1002391

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8015B: Gasoline Range

Sample ID: MB-21434

MBLK

Batch ID: 21434 Analysis Date: 2/25/2010 8:57:06 PM

Gasoline Range Organics (GRO) ND mg/Kg 5.0

Sample ID: 2.5UG GRO LCS

LCS

Batch ID: 21434 Analysis Date: 2/25/2010 8:26:49 PM

Gasoline Range Organics (GRO) 27.14 mg/Kg 5.0 25 1.96 101 77.7 135

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: Land Farms

Work Order: 1002391

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: mb-21434

MBLK

Batch ID: 21434 Analysis Date: 2/22/2010 3:07:55 PM

Benzene	ND	mg/Kg	0.050
Toluene	ND	mg/Kg	0.050
Ethylbenzene	ND	mg/Kg	0.050
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.050
1,2,4-Trimethylbenzene	ND	mg/Kg	0.050
1,3,5-Trimethylbenzene	ND	mg/Kg	0.050
1,2-Dichloroethane (EDC)	ND	mg/Kg	0.050
1,2-Dibromoethane (EDB)	ND	mg/Kg	0.050
Naphthalene	ND	mg/Kg	0.10
1-Methylnaphthalene	ND	mg/Kg	0.20
2-Methylnaphthalene	ND	mg/Kg	0.20
Acetone	ND	mg/Kg	0.75
Bromobenzene	ND	mg/Kg	0.050
Bromodichloromethane	ND	mg/Kg	0.050
Bromoform	ND	mg/Kg	0.050
Bromomethane	ND	mg/Kg	0.10
2-Butanone	ND	mg/Kg	0.50
Carbon disulfide	ND	mg/Kg	0.50
Carbon tetrachloride	ND	mg/Kg	0.10
Chlorobenzene	ND	mg/Kg	0.050
Chloroethane	ND	mg/Kg	0.10
Chloroform	ND	mg/Kg	0.050
Chloromethane	ND	mg/Kg	0.050
2-Chlorotoluene	ND	mg/Kg	0.050
4-Chlorotoluene	ND	mg/Kg	0.050
cis-1,2-DCE	ND	mg/Kg	0.050
cis-1,3-Dichloropropene	ND	mg/Kg	0.050
1,2-Dibromo-3-chloropropane	ND	mg/Kg	0.10
Dibromochloromethane	ND	mg/Kg	0.050
Dibromomethane	ND	mg/Kg	0.10
1,2-Dichlorobenzene	ND	mg/Kg	0.050
1,3-Dichlorobenzene	ND	mg/Kg	0.050
1,4-Dichlorobenzene	ND	mg/Kg	0.050
Dichlorodifluoromethane	ND	mg/Kg	0.050
1,1-Dichloroethane	ND	mg/Kg	0.10
1,1-Dichloroethene	ND	mg/Kg	0.050
1,2-Dichloropropane	ND	mg/Kg	0.050
1,3-Dichloropropane	ND	mg/Kg	0.050
2,2-Dichloropropane	ND	mg/Kg	0.10
1,1-Dichloropropene	ND	mg/Kg	0.10
Hexachlorobutadiene	ND	mg/Kg	0.10
2-Hexanone	ND	mg/Kg	0.50
Isopropylbenzene	ND	mg/Kg	0.050
4-Isopropyltoluene	ND	mg/Kg	0.050

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Land Farms

Work Order: 1002391

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: mb-21434

MBLK

Batch ID: 21434 Analysis Date: 2/22/2010 3:07:55 PM

4-Methyl-2-pentanone	ND	mg/Kg	0.50
Methylene chloride	ND	mg/Kg	0.15
n-Butylbenzene	ND	mg/Kg	0.050
n-Propylbenzene	ND	mg/Kg	0.050
sec-Butylbenzene	ND	mg/Kg	0.050
Styrene	ND	mg/Kg	0.050
tert-Butylbenzene	ND	mg/Kg	0.050
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.050
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.050
Tetrachloroethene (PCE)	ND	mg/Kg	0.050
trans-1,2-DCE	ND	mg/Kg	0.050
trans-1,3-Dichloropropene	ND	mg/Kg	0.050
1,2,3-Trichlorobenzene	ND	mg/Kg	0.10
1,2,4-Trichlorobenzene	ND	mg/Kg	0.050
1,1,1-Trichloroethane	ND	mg/Kg	0.050
1,1,2-Trichloroethane	ND	mg/Kg	0.050
Trichloroethene (TCE)	ND	mg/Kg	0.050
Trichlorofluoromethane	ND	mg/Kg	0.050
1,2,3-Trichloropropane	ND	mg/Kg	0.10
Vinyl chloride	ND	mg/Kg	0.050
Xylenes, Total	ND	mg/Kg	0.10

Sample ID: lcs-21434

LCS

Batch ID: 21434 Analysis Date: 2/22/2010 2:39:35 PM

Benzene	1.008	mg/Kg	0.050	1	0	101	84.5	114
Toluene	1.083	mg/Kg	0.050	1	0	108	85.4	109
Chlorobenzene	1.103	mg/Kg	0.050	1	0.0058	110	86.8	110
1,1-Dichloroethene	1.088	mg/Kg	0.050	1	0	109	74.4	129
Trichloroethene (TCE)	1.045	mg/Kg	0.050	1	0	104	77.8	114

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Land Farms

Work Order: 1002391

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8270C: Semivolatiles

Sample ID: 1002391-01Amsd

MSD

Batch ID: 21451

Analysis Date: 2/26/2010 12:53:40 PM

4-Chloro-3-methylphenol	2.568	mg/Kg	0.50	3.33	0	77.1	14.6	154	4.54	30
2-Chlorophenol	2.363	mg/Kg	0.20	3.33	0	71.0	13.3	149	3.37	30
4-Nitrophenol	2.699	mg/Kg	0.20	3.33	0	81.0	13.1	150	0.185	0
Pentachlorophenol	2.549	mg/Kg	0.40	3.33	0	76.5	20.1	139	7.40	30
Phenol	2.509	mg/Kg	0.20	3.33	0	75.4	17.3	141	0.293	30

Sample ID: mb-21451

MBLK

Batch ID: 21451

Analysis Date: 2/26/2010 10:54:22 AM

4-Chloro-3-methylphenol	ND	mg/Kg	0.50							
2-Chlorophenol	ND	mg/Kg	0.20							
2,4-Dichlorophenol	ND	mg/Kg	0.40							
2,4-Dimethylphenol	ND	mg/Kg	0.30							
4,6-Dinitro-2-methylphenol	ND	mg/Kg	0.50							
2,4-Dinitrophenol	ND	mg/Kg	0.40							
2-Methylphenol	ND	mg/Kg	0.50							
3+4-Methylphenol	ND	mg/Kg	0.20							
2-Nitrophenol	ND	mg/Kg	0.20							
4-Nitrophenol	ND	mg/Kg	0.20							
Pentachlorophenol	ND	mg/Kg	0.40							
Phenol	ND	mg/Kg	0.20							
2,4,5-Trichlorophenol	ND	mg/Kg	0.20							
2,4,6-Trichlorophenol	ND	mg/Kg	0.20							

Sample ID: lcs-21451

LCS

Batch ID: 21451

Analysis Date: 2/26/2010 1:23:08 PM

4-Chloro-3-methylphenol	2.838	mg/Kg	0.50	3.33	0	85.2	40.1	96.6		
2-Chlorophenol	2.598	mg/Kg	0.20	3.33	0	78.0	32.2	94.6		
4-Nitrophenol	1.868	mg/Kg	0.20	3.33	0	56.1	18.1	122		
Pentachlorophenol	3.013	mg/Kg	0.40	3.33	0	90.5	37.5	98.8		
Phenol	1.660	mg/Kg	0.20	3.33	0	49.8	29	96		

Sample ID: 1002391-01Ams

MS

Batch ID: 21451

Analysis Date: 2/26/2010 12:24:15 PM

4-Chloro-3-methylphenol	2.454	mg/Kg	0.50	3.33	0	73.7	14.6	154		
2-Chlorophenol	2.444	mg/Kg	0.20	3.33	0	73.4	13.3	149		
4-Nitrophenol	2.704	mg/Kg	0.20	3.33	0	81.2	13.1	150		
Pentachlorophenol	2.745	mg/Kg	0.40	3.33	0	82.4	20.1	139		
Phenol	2.502	mg/Kg	0.20	3.33	0	75.1	17.3	141		

Method: EPA Method 7471: Mercury

Sample ID: 1002391-01BMSD

MSD

Batch ID: 21525

Analysis Date: 3/3/2010 1:06:27 PM

Mercury	0.1736	mg/Kg	0.033	0.164	0.0052	103	75	125	2.84	20
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Sample ID: MB-21525

MBLK

Batch ID: 21525

Analysis Date: 3/3/2010 12:59:28 PM

Mercury	ND	mg/Kg	0.033							
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Sample ID: LCS-21525

LCS

Batch ID: 21525

Analysis Date: 3/3/2010 1:01:12 PM

Mercury	0.1676	mg/Kg	0.033	0.167	0.0006	100	80	120		
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Sample ID: 1002391-01BMS

MS

Batch ID: 21525

Analysis Date: 3/3/2010 1:04:42 PM

Mercury	0.1786	mg/Kg	0.033	0.166	0.0052	104	75	125		
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Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Land Farms

Work Order: 1002391

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 6010B: Soil Metals											
Sample ID: 1002391-01BMSD		MSD				Batch ID: 21509		Analysis Date: 3/1/2010 5:19:37 PM			
Arsenic	20.63	mg/Kg	13	23.91	0	86.3	75	125	0.235	20	
Cadmium	23.92	mg/Kg	0.50	23.91	0	100	75	125	4.51	20	
Chromium	30.60	mg/Kg	1.5	23.91	8.003	94.5	75	125	4.03	20	
Copper	26.43	mg/Kg	1.5	23.91	3.95	94.0	75	125	4.76	20	
Selenium	20.23	mg/Kg	13	23.91	0	84.6	75	125	12.2	20	
Silver	23.72	mg/Kg	1.3	23.91	0	99.2	75	125	3.85	20	
Sample ID: MB-21509		MBLK				Batch ID: 21509		Analysis Date: 3/1/2010 5:00:24 PM			
Arsenic	ND	mg/Kg	2.5								
Barium	ND	mg/Kg	0.10								
Cadmium	ND	mg/Kg	0.10								
Chromium	ND	mg/Kg	0.30								
Copper	ND	mg/Kg	0.30								
Selenium	ND	mg/Kg	2.5								
Silver	ND	mg/Kg	0.25								
Sample ID: MB-21509		MBLK				Batch ID: 21509		Analysis Date: 3/3/2010 9:37:19 AM			
Uranium	ND	mg/Kg	5.0								
Sample ID: LCS-21509		LCS				Batch ID: 21509		Analysis Date: 3/1/2010 5:02:51 PM			
Arsenic	24.39	mg/Kg	2.5	25	0	97.6	80	120			
Barium	24.70	mg/Kg	0.10	25	0	98.8	80	120			
Cadmium	24.02	mg/Kg	0.10	25	0	96.1	80	120			
Chromium	24.71	mg/Kg	0.30	25	0	98.8	80	120			
Copper	25.63	mg/Kg	0.30	25	0.1818	102	80	120			
Selenium	24.66	mg/Kg	2.5	25	0	98.6	80	120			
Silver	24.85	mg/Kg	0.25	25	0.1556	98.8	80	120			
Sample ID: LCS-21509		LCS				Batch ID: 21509		Analysis Date: 3/3/2010 9:39:43 AM			
Uranium	28.97	mg/Kg	5.0	25	0	116	80	120			
Sample ID: 1002391-01BMS		MS				Batch ID: 21509		Analysis Date: 3/1/2010 5:17:10 PM			
Arsenic	20.67	mg/Kg	13	24.3	0	85.1	75	125			
Cadmium	22.87	mg/Kg	0.50	24.3	0	94.1	75	125			
Chromium	29.39	mg/Kg	1.5	24.3	8.003	88.0	75	125			
Copper	25.20	mg/Kg	1.5	24.3	3.95	87.5	75	125			
Selenium	17.90	mg/Kg	13	24.3	0	73.7	75	125			S
Silver	22.82	mg/Kg	1.3	24.3	0	93.9	75	125			

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU

Date Received:

2/19/2010

Work Order Number 1002391

Received by: TLS

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name FedEx

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Not Shipped ☐

Custody seals intact on sample bottles?

Yes ☒

No ☐

N/A ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☒

Yes ☐

No ☐

Water - Preservation labels on bottle and cap match?

Yes ☐

No ☐

N/A ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

Container/Temp Blank temperature?

5.1°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

per GR analysis for AT 2/19/10

Corrective Action

Chain-of-Custody Record

Client: **WESTERN REFINING**

Address: **GALLUP**

Phone #: **505 722 3833**

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

LAND FARMS

Project #:

BACKGROUND

Project Manager:

G. RAJEN

Sampler:

Office: YES
Sample Temperature: 51

Container Type and #

Preservative Type

HEAL No. 2/19/10

10023901

1802 NONE

1802 NONE

1802 NONE

Turn-Around Time:

Project Name:

Project #:

Project Manager:

Sampler:

Container Type and #

Preservative Type

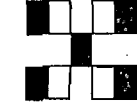
HEAL No. 2/19/10

10023901

1802 NONE

1802 NONE

1802 NONE



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

8270 (Semi-VOA)	8260B (VOA)	8081 Pesticides / 8082 PCBs	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8310 (PNA or PAH)	EDC (Method 8260)	EDB (Method 504.1)	TPH (Method 418.1)	TPH Method 8015B (Gas/Diesel)	BTEX + MTBE + TPH (Gas only)	BTEX + MTBE + TMBs (E021)
X	X		X		X	X	X	X	X	X

PHENOLS 420.3
C, Ca, Cd, Cr, Hg, Se, Pb
U.S. 6010/7471
Radium 226 228
901.1
9612B
Air Bubbles (Y or N)

Remarks:

Received by: **847**

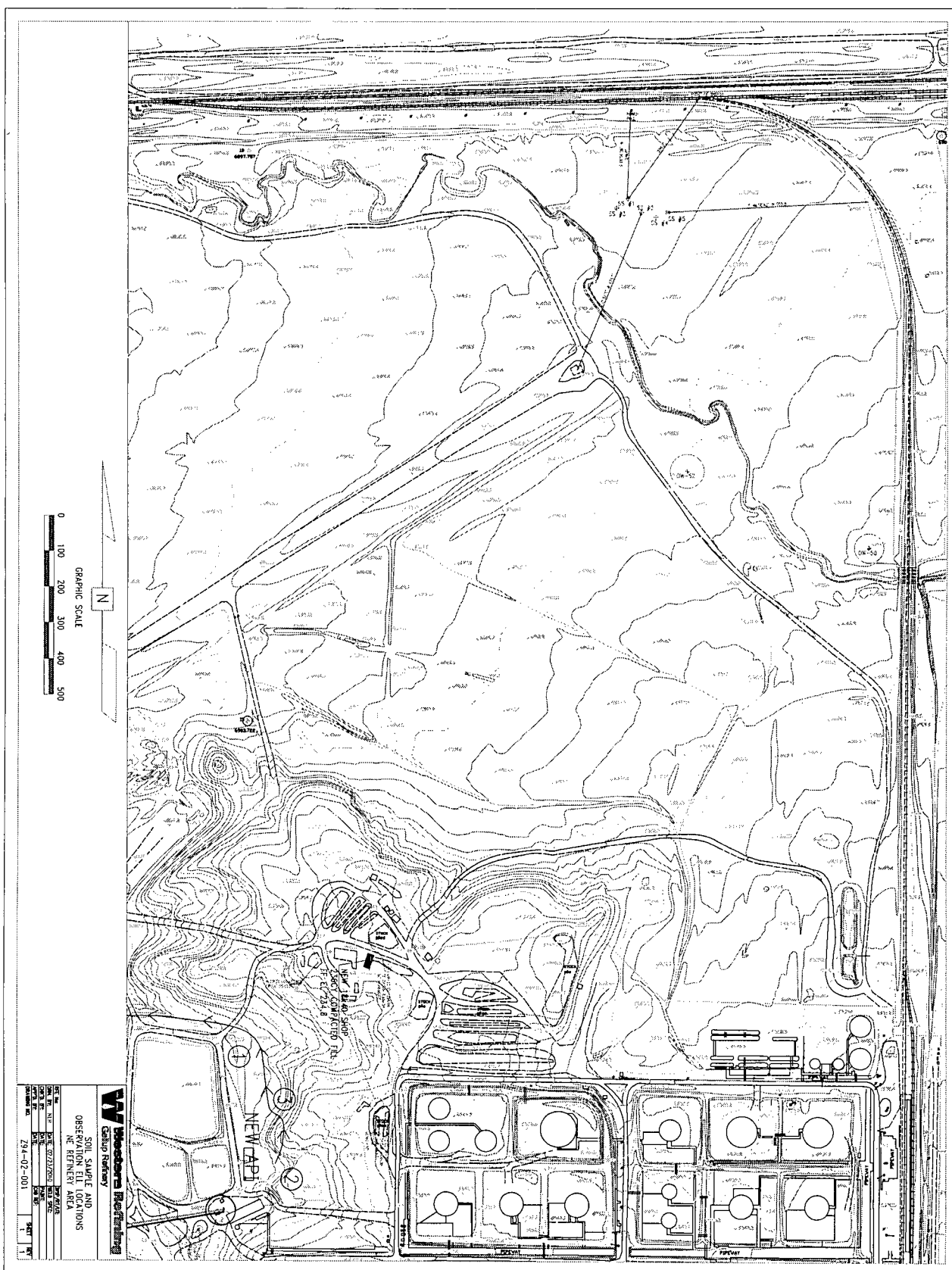
Received by: **2/19/10**

Relinquished by: **ALVIN DORSEY**

Relinquished by:

Date: **2/18 9:00**

Date:



concentration, as determined by EPA method 300.1, does not exceed 500 mg/kg. The operator shall treat soils by disking at least once a month and by watering and adding bioremediation enhancing materials when needed.

- The operator shall maintain records reflecting the generator, the location of origin, the volume and type of oil field waste, the date of acceptance and the hauling company for each load of oil field waste received. The division shall post on its website each small landfarm's location, operator and registration date. In addition, the operator shall maintain records of the small landfarm's remediation activities in a form readily accessible for division inspection. The operator shall maintain all records for five years following the small landfarm's closure.

- The operator shall submit a final closure report on a form C-137 EZ, together with photographs of the closed site, to the environmental bureau in the division's Santa Fe office.

CERTIFICATION

I hereby certify that the information submitted with this registration is true, accurate and complete to the best of my knowledge and belief and agree to the understandings and conditions of this registration.

Name: _____

Title: _____

Signature: _____

Date: _____

E-mail Address: _____

OCD REGISTRATION: ☐ Approved. Date : _____ ☐ Denied. Date: _____

Comments: _____

OCD Representative Signature: _____

Title: _____ **OCD Registration Number:** _____

FINAL CLOSURE REPORT

Were the landfarmed soils able to achieve the closure performance standards, listed below, within three years from the registration date? ☐ Yes ☐ No (Please provide laboratory analytical results)

- benzene, as determined by EPA SW-846 method 8021 B or 8260B, shall not exceed 0.2 mg/kg;
- Total BTEX, as determined by EPA SW-846 method 8021 B or 8260B, shall not exceed 50 mg/kg;
- TPH, as determined by EPA SW-846 method 418.1 or other EPA method approved by the division, shall not exceed 2500 mg/kg; the GRO and DRO combined fraction, as determined by EPA SW-846 method 8015M, shall not exceed 500 mg/kg; and
- chlorides, as determined by EPA method 300.1, shall not exceed 500 mg/kg.

If yes, were the additional closure requirements listed below satisfied? ☐ Yes ☐ No (Please provide photos)

- The operator shall re-vegetate soils remediated to the closure performance standards if left in place in accordance with Paragraph (6) of Subsection A of 19.15.36.18 NMAC.
- If the operator returns remediated soils to the original site, or with division permission, recycles them, re-vegetate the cell filled in with native soil to the standards in Paragraph (6) of Subsection A of 19.15.36.18 NMAC;
- The operator shall remove berms on the small landfarm and buildings, fences, roads and equipment; and
- The operator shall clean up the site and collect one vadose zone soil sample from three to five feet below the middle of the treatment zone, or in an area where liquids may have collected due to rainfall events; the vadose zone soil sample shall be collected and analyzed using the methods specified above for TPH, BTEX and chlorides.

If no, were the landfarmed soils that have not or cannot be remediated to the closure performance standards within three years removed to a division-approved surface waste management facility, and the cell filled in with native soil to the standards in Paragraph (6) of Subsection A of 19.15.36.18 NMAC and re-vegetated? ☐ Yes ☐ No (Please provide photos)

CERTIFICATION

I hereby certify that the information submitted with this final closure report is true, accurate and complete to the best of my knowledge and belief.

Name: _____

Title: _____

Signature: _____

Date: _____

E-mail Address: _____

OCD CLOSURE REVIEW: ☐ Closure Approved. Date : _____ ☐ Closure Denied. Date: _____

Comments: _____

OCD Representative Signature: _____

Title: _____ **OCD Registration Number:** _____

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

For State Use Only:
Registration #

Form C-137 EZ
Revised August 3, 2009

Submit 1 Copy to Santa Fe Office

REGISTRATION/ FINAL CLOSURE REPORT FOR SMALL LANDFARM

Section 7 of 19.15.36 NMAC defines a small landfarm as a centralized landfarm of two acres or less that has a total capacity of 2000 cubic yards or less in a single lift of eight inches or less, remains active for a maximum of three years from the date of its registration and that receives only petroleum hydrocarbon-contaminated soils (excluding drill cuttings) that are exempt or non-hazardous waste. The operator shall operate only one active small landfarm per governmental section at any time.

GENERAL INFORMATION

1. ☐ Small Landfarm Registration ☐ Small Landfarm Final Closure Report*
(*Must be submitted within three years from the registration date)

2. Operator: _____

Address: _____

Contact Person: _____ Phone: _____

3. Location: _____ /4 _____ /4 Section _____ Township _____ Range _____

REGISTRATION

1. As operator, are you the surface estate owner of the proposed site? ☐ Yes ☐ No If no, please attach a certification statement that demonstrates a written agreement is established with the surface estate owner authorizing the use of the site for the proposed small landfarm.

2. Will the proposed small landfarm comply with the siting requirements of Subsections A and B of 19.15.36.13 NMAC?
☐ Yes ☐ No

A. Depth to ground water.

- No small landfarm shall be located where ground water is less than 50 feet below the lowest elevation at which the operator will place oil field waste.

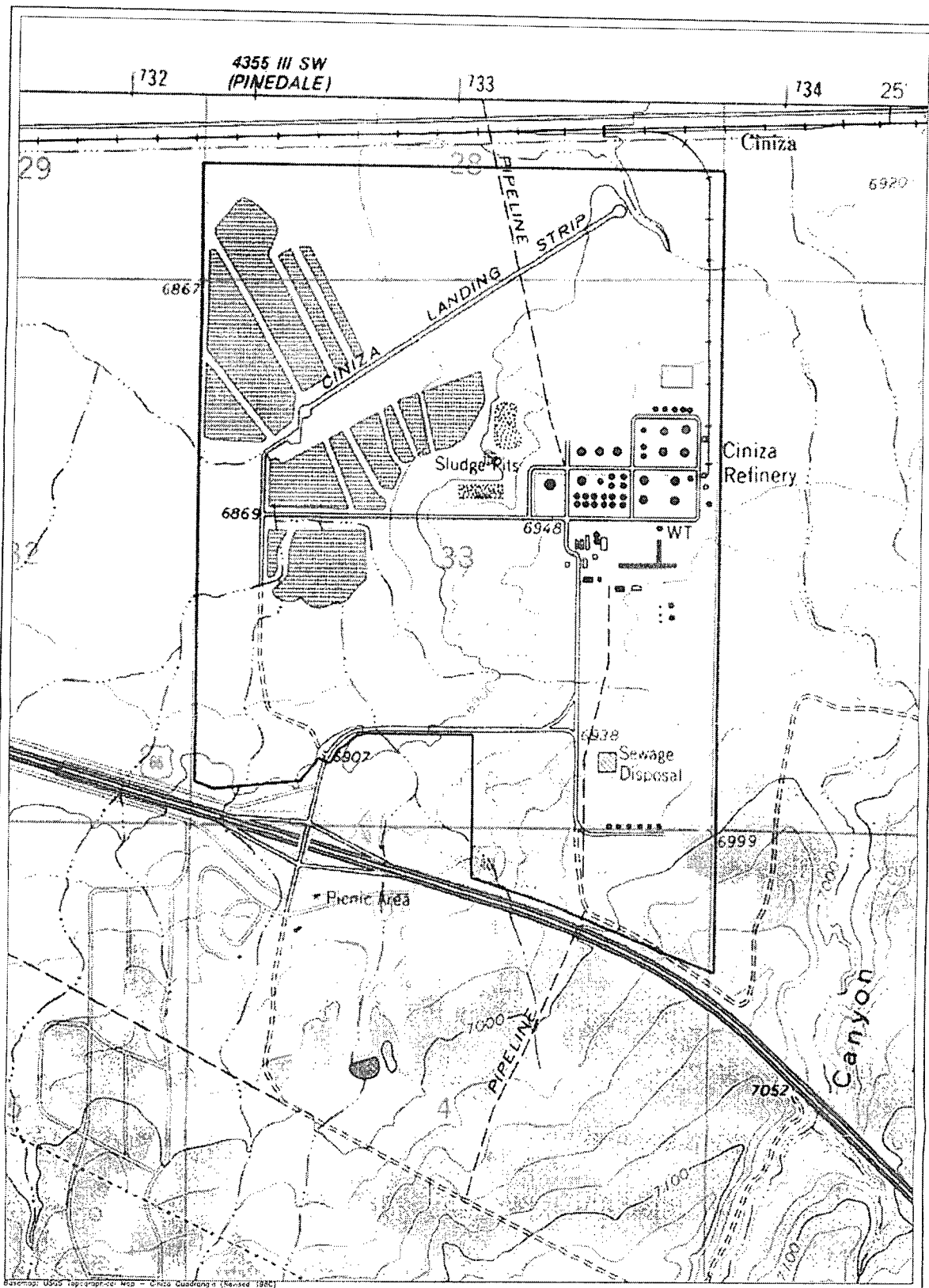
B. No surface waste management facility shall be located:

- within 200 feet of a watercourse, lakebed, sinkhole or playa lake;
- within an existing wellhead protection area or 100-year floodplain;
- within, or within 500 feet of, a wetland;
- within the area overlying a subsurface mine;
- within 500 feet from the nearest permanent residence, school, hospital, institution or church in existence at the time of initial application; or
- within an unstable area, unless the operator demonstrates that engineering measures have been incorporated into the surface waste management facility design to ensure that the surface waste management facility's integrity will not be compromised.

3. Attach a plat and topographic map showing the small landfarm's location in relation to governmental surveys (quarter-quarter section, township and range); highways or roads giving access to the small landfarm site; watercourses; fresh water sources, including wells and springs; oil and gas wells or other production facilities; and inhabited buildings within one mile of the site's perimeter.

Based on the information provided with this submittal, registration of a small landfarm can only be granted if the operator complies with the following understandings and conditions:

- The operator shall operate only one active small landfarm per governmental section at any time. No small landfarm shall be located more than one mile from the operator's nearest oil or gas well or other production facility.
- The operator shall accept only exempt or non-hazardous wastes consisting of soils (excluding drill cuttings) generated as a result of accidental releases from production operations, that are predominantly contaminated by petroleum hydrocarbons, do not contain free liquids, would pass the paint filter test and where testing shows chloride concentrations are 500 mg/kg or below.
- The operator shall berm the landfarm to prevent rainwater run-on and run-off.
- The operator shall post a sign at the site readable from a distance of 50 feet and listing the operator's name; small landfarm registration number; location by unit letter, section, township and range; expiration date; and an emergency contact telephone number.
- The operator shall spread and disk contaminated soils in a single eight inch or less lift within 72 hours of receipt. The operator shall conduct treatment zone monitoring to ensure that the TPH concentration, as determined by EPA SW-846 method 8015M or EPA method 418.1 or other EPA method approved by the division, does not exceed 2500 mg/kg; and that the chloride



Source: USGS Topographic Map - Ciniza Quadrangle (Revised 1980)

EXPLANATION

- PROPERTY BOUNDARY
- SOIL INVESTIGATION AREA

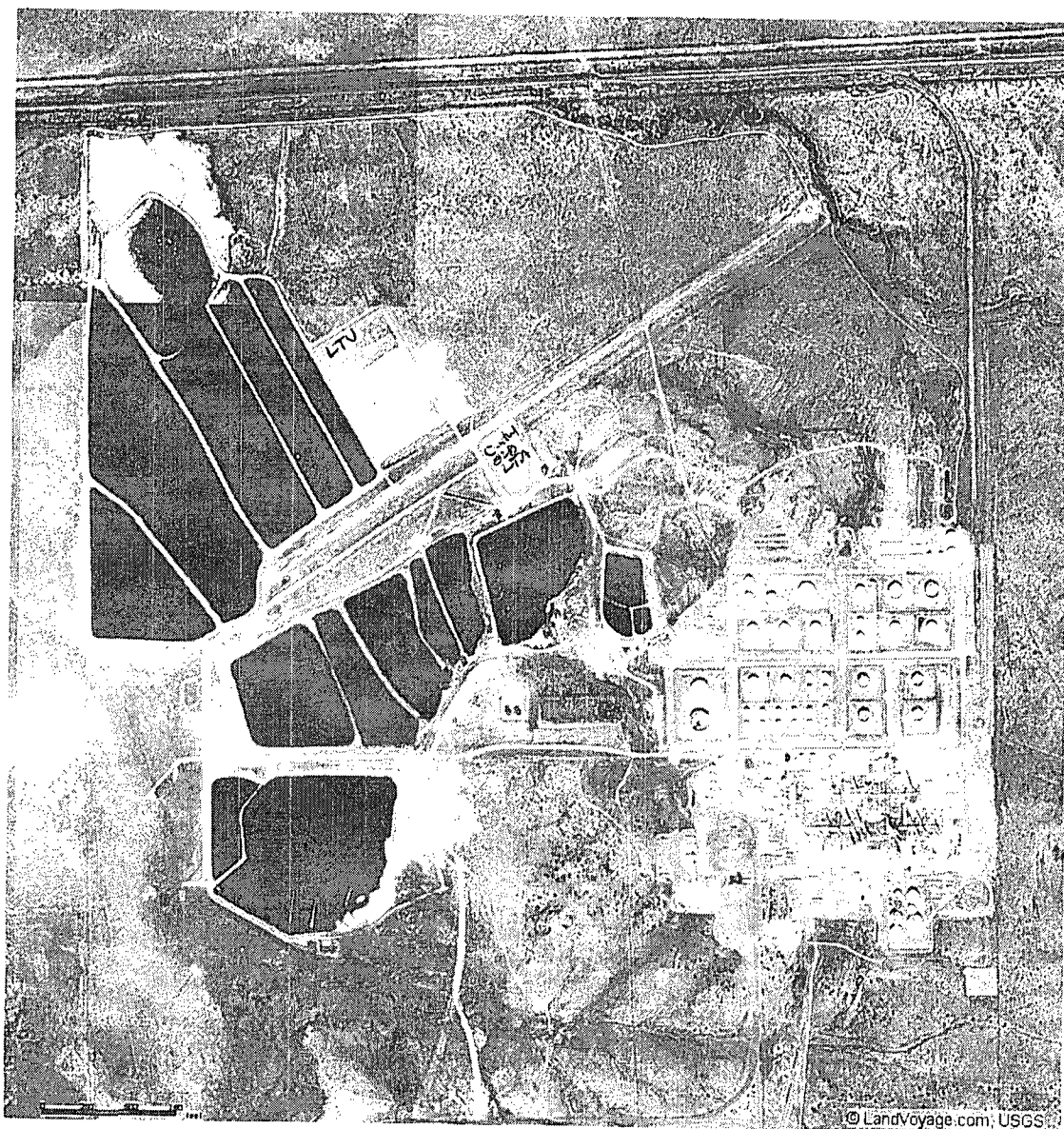


FIGURE 3

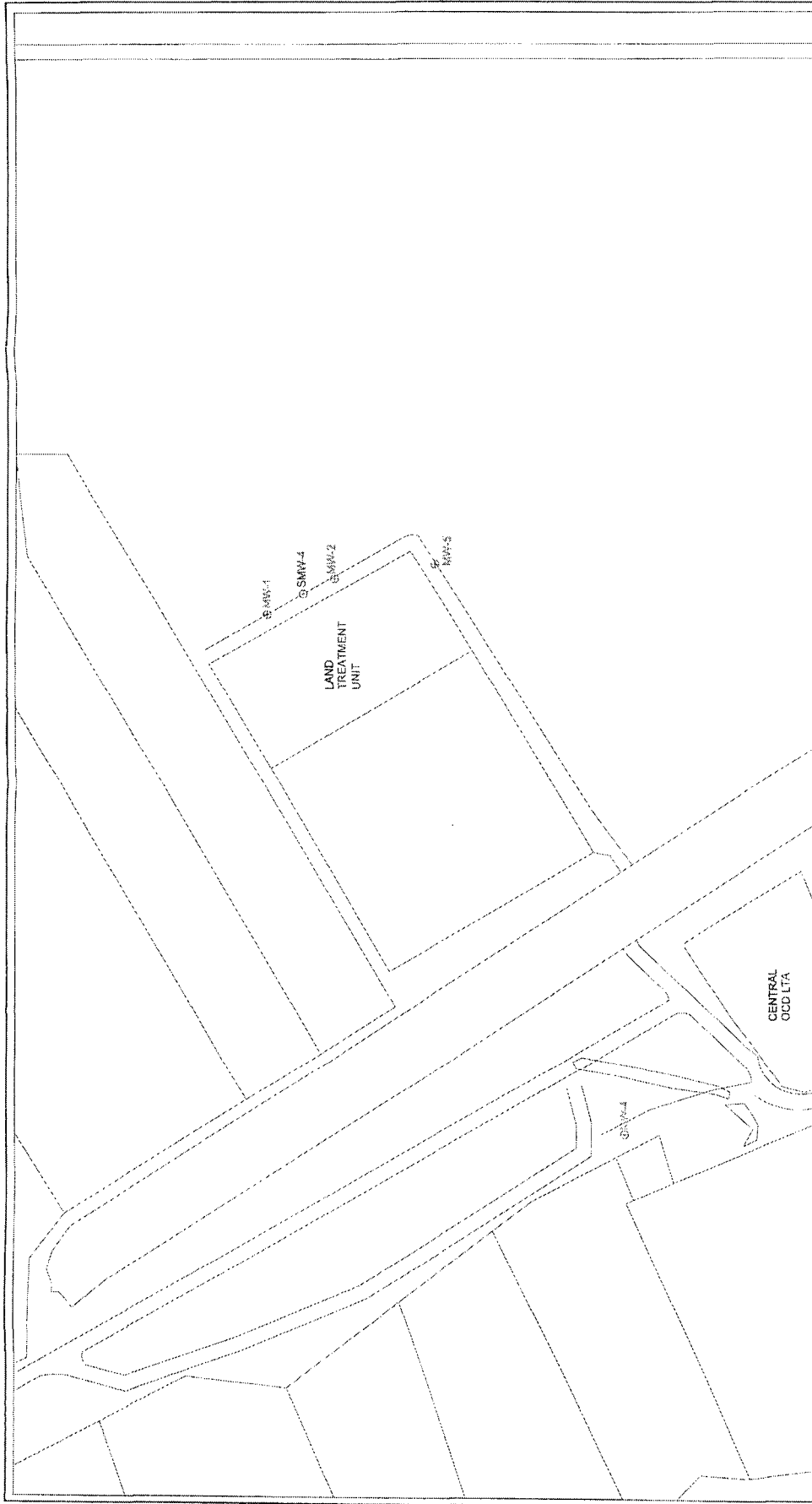
TOPOGRAPHIC MAP OF GALLUP REFINERY SITE

WESTERN REFINING COMPANY
GALLUP REFINERY
GALLUP, NEW MEXICO

Drawn By: REP Checkered By: RM Scale: 1" = 1,000' Date: 12/22/10 File: 66770PO-261012



APPENDIX A-3. AERIAL PHOTOGRAPH OF THE GALLUP REFINERY



Modified From: Precision Engineering, Inc.

EXPLANATION

- SMW-1 LUT MONITORING WELL AND DESIGNATION
(COMPLETED IN SONSELA AQUIFER)
- SMW-2 LUT EARLY DETECTION WELL AND DESIGNATION
(COMPLETED IN CHIRLE SLOPE WASH)
- SMW-4
- SMW-5



FIGURE 2

LUT GROUNDWATER MONITORING NETWORK

WESTERN REFINING COMPANY
GALLUP REFINERY
GALLUP, NEW MEXICO

Scale: 1" = 200' Date: 11/16/2019 File: 197.TUGW-MON-201011

NOTE:

BASE CADD FILE PROVIDED BY PRECISION ENGINEERING, DATED DECEMBER 18, 2005



**APPENDIX A-5. LOCALIZED SCALE: FLOW LINES AND MAJOR SURFACE WATER BODIES
(FROM: EPA ENVIROMAPPER - [HTTP://MAP24.EPA.GOV/EMR/?ZOOMTOWATERSHED=15020006](http://map24.epa.gov/emr/?zoomtowatershed=15020006))
NORTH IS TOWARDS THE TOP OF THE PAGE. THE POND TO THE EAST IS JON MYERS' LIVESTOCK
POND.**

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Friday, January 23, 2009 12:38 PM
To: 'Riege, Ed'
Cc: 'Rajen, Gaurav'; Monzeglio, Hope, NMENV; VonGonten, Glenn, EMNRD
Subject: GW-32 Discharge Permit Item 16(F) Temporary Landfarms Deadline Exceeded

Re: 16(F) Temporary Landfarms: A closure plan for any temporary landfarm(s) or land treatment area(s) shall be submitted to the OCD by December 31, 2007.

Ed:

It was a pleasure meeting with Western Refining Southwest (WRSW)- Gallup Refinery on Wednesday, January 21, 2009 to discuss the Waste Water Treatment System Engineering Plans and other discharge permit items due in March of 2009.

A discussion item that came up by the OCD was the temporary landfarm area where WRSW appears to have missed the discharge permit deadline. You may recall that the OCD extended the deadline in a "Minor Modification"; however, WRSW missed this deadline. WRSW apparently has plans to utilize the temporary landfarm area near the Rail Road Lagoon Rack for bioremediation of a RCRA SWMU. WRSW has a permitted landfarm on its premises with provisions for operation and monitoring in the discharge permit. The OCD requests that WRSW consider utilizing the permitted landfarms instead of the temporary landfarm areas, since the OCD included Item 16(F) to close the temporary landfarm area as a provision of the recently issued discharge permit.

During the meeting the OCD requested that WRSW address this item by responding to the OCD via e-mail with an anticipated time period for use and closure date to utilize the temporary landfarm areas for bioremediation of contaminated soils near the Rail-Road Lagoon Rack Area RCRA cleanup. The OCD may decide what to do upon receipt. In addition, provide the OCD with a date that WRSW can submit a closure plan for the temporary landfarms well in advance of closure, for example within 90 days of receipt of this e-mail. The closure plan could include elements of the landfarm in the discharge permit. The OCD would prefer that WRSW work to close the temporary landfill areas now rather than later, as WRSW already has a nearby landfarm area that is managed under the recently issued discharge permit.

Please let me know based on the above WRSW's intent. The OCD may require a Modification to the permit depending on what WRSW plans to do. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/oed/index.htm>
(Pollution Prevention Guidance is under "Publications")

OCD Discharge Permit (GW-032)
Minor Permit Modification
September 21, 2007
Schedule
Giant Refining - Gallup Refinery

Section No.	Requirement	Conditions Deadline	Proposed Deadline	Reason for the Change
16.F.	Temporary Landfarms - Closure Plan	12/31/2007	3/17/2008	Closure Plan development will require: 1. Development of Sampling Program and Sampling. 2. Analyses and Data Evaluation, and 3. Preparation of Plan.
20.A.	Annual Ground Water Report	Annually due by 9/1	Same	
21.A.	If decide not to landfarm, submit a closure plan within 3 months of permit issuance	NA	NA	
24.A.	Pilot by-pass be disconnected and plugged. Installation of Dual Primary Separation Device with secondary containment and leak detection	12/31/2007	7/16/2008	Pilot bypass will be locked closed and would only be opened in event of an emergency until the 48 hours storage can be installed. Installation requires: 1. Data Collection and evaluation, 2. Engineering, and 3. Design, and 4. Delivery and/or Construction/Installation.
24.B.	Emergency tank holding system for Pilot waste water (48 hours accumulation)	12/31/2007	7/16/2008	
24.D.	Maintain a sampling and metering station on incoming Pilot waste water line	Permit Issuance Date	Same	
24.E.	Biohazard O&M Plan for WW treatment facility	6/30/2008	Same	
27	Closure Plan and Financial Assurance cost estimate for unlined waste water and/or evaporation ponds	12/31/2007	Same	

Chavez, Carl J, EMNRD

From: Rajen, Gaurav [Gaurav.Rajen@wnr.com]
Sent: Thursday, July 16, 2009 11:48 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Riege, Ed; Larsen, Thurman
Subject: Latest sampling results from our land-farms
Attachments: June 2009.pdf

Dear Carl:

It is a pleasure to write and share with you our latest semi-annual sampling results from our permitted land farms – the OCD Land Farm is to the south-west of our facility; and the NE Land Farm is the temporary land farm in the North-east section.

Table 1 provides a summary of our results; and the attachment gives analytical data. (You will note that in the laboratory results there is an additional sample from the Railroad Rack Lagoon Fan-out area work we are doing under Hope's direction.)

Sample Location and ID	BTEX	TPH (ppm)	Chlorides (ppm)
Background (LFOCD-001-062509)	ND	72	1500
OCD Land Farm – composite from treatment zone (LFOCD-003-062509)	Not analyzed (not mandated by OCD permit GW-032)	12,000	230
OCD Land Farm – vadose zone (LFOCD-002-062509)	ND	ND	240
OCD Land Farm – vadose zone (LFOCD-004-062509)	ND	ND	240
OCD Land Farm – vadose zone (LFOCD-005-062509)	ND	ND	180
OCD Land Farm – vadose zone (LFOCD-006-062509)	ND	180	240
NE Land Farm – composite from treatment zone (LFNE-007-062509)	Not analyzed (not mandated by OCD permit GW-032)	240	140
NE Land Farm – vadose zone (LFNE-008-062509)	ND	24	87
NE Land Farm – vadose zone (LFNE-009-062509)	ND	39	130
NE Land Farm – vadose zone (LFNE-010-062509)	ND	36	150
NE Land Farm – vadose zone (LFNE-011-062509)	ND	ND	150

The NE land farm recently received material from our excavation of the rail-road rack lagoon fan-out area. As you can see – from our composite sample, we are likely already below clean-up standards for this lift. However, excavation is on-going and we will be adding more material. After we have disked and watered for a month, we will resample and send you our disposition plans and a description of our perhaps having met the closure performance standards.

The purpose of this letter is to alert you to the fact that at the OCD land farm one of our vadose zone samples had a TPH level of 180 ppm (background is 72 ppm). We plan to resample as per our permit GW-032. There is a possibility that the equipment we used (a back-hoe) may have cross-contaminated between the treatment zone sample and the vadose zone sample. We will take care to decontaminate the back-hoe more thoroughly this time when we resample to preclude such a possibility.

If the vadose zone sample is again higher than the background sample, we will prepare and send you our response action plan.

Our background sample was collected in a non-impacted field near the OCD Land Farm. We believe the TPH levels we find in the background sample are from deposition of hydrocarbon vapors and particulates through the air – these could come from the refinery and to a lesser extent from the Interstate -40, as well as vehicles driving on adjacent roads. As the intent of the background sample is to determine if the material placed on the land farm is leaching into the subsurface and vadose zone, we feel it is important to use a local surface soil sample to represent what would have been concentrations in the land farm soils if no material had been placed within.

You will notice that the background sample is high in chlorides – this is likely because of vegetation in the field where the background sample was collected. In desert soils, such as ours, plants can change salt concentrations considerably in soils around the plants and roots; and rain water, too, can leach salts and then raise surface soil concentrations of salts upon evaporation. If you have any thoughts on the location and nature of the background sample, please send them on to us.

We have been trying to find which soil sample in the past was used as representative of the background. As we could not find such data readily, we have taken a new background sample from an adjacent field to the OCD land farm.

Best regards,

Raj

This inbound email has been scanned by the MessageLabs Email Security System.

Chavez, Carl J, EMNRD

From: Rajen, Gaurav [Gaurav.Rajen@wnr.com]
Sent: Wednesday, February 17, 2010 11:14 AM
To: Chavez, Carl J, EMNRD
Cc: Riege, Ed
Subject: RE: Background samples for OCD Land Farms

Dear Carl:

These were taken mainly to compare values we get from the OCD land farms that are located near the ponds – i.e. to help answer the question “when are the soils clean?” We do not intend to close these land farms. As we had discussed, we were going to analyze for all the parameters that will be needed at the time of eventual closure; not just for the shorter list of chemicals that help determine how well the soils have been cleaned.

The NE land farm near the Railroad Rack Lagoon area and the one north of the tanks are the same – this is a temporary land farm but is not yet ready to be closed, as we are waiting for NMED/HWB review of our excavation and closure report, and also for the soils to be remediated through tilling and microbial action.

I hope this explains the situation. Please let me know if you need maps, etc.

Once we have the background soils results, we will send you a report.

Best,

Raj

From: Chavez, Carl J, EMNRD [<mailto:CarlJ.Chavez@state.nm.us>]
Sent: Wednesday, February 17, 2010 11:06 AM
To: Rajen, Gaurav
Subject: RE: Background samples for OCD Land Farms

Raj:

I know there are a couple of landfarms being used at the Gallup Refinery (one near the Railroad Lagoon Rack) and the other North of the tanks. Which landfarm are you closing? Thanks.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/oed/index.htm>
(Pollution Prevention Guidance is under "Publications")

From: Rajen, Gaurav [<mailto:Gaurav.Rajen@wnr.com>]
Sent: Wednesday, February 17, 2010 11:00 AM
To: Chavez, Carl J, EMNRD
Cc: Monzeglio, Hope, NMENV; Riege, Ed; Dorsey, Alvin
Subject: Background samples for OCD Land Farms

Dear Carl:

Just a quick note to let you know that severe weather the past few months and hard snow and ice cover had prevented us from gathering a background sample made up of 5 composites taken at 6 inches deep in the 212 Rehoboth silty clay loam

soils that we had previously agreed represented the land farms soils. We were able to do so this morning. All five locations were in areas in the north-west section of the Refinery, and in the 212 soils.

We will analyze this sample for all the parameters needed for land farm closure, as specified in our permit GW-032.

Many thanks,

Raj

This inbound email has been scanned for malicious software and transmitted safely to you using Webroot Email Security.

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BILL RICHARDSON
Governor

DIANE DENISH
Lieutenant Governor

NEW MEXICO
ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

2905 Rodeo Park Drive East, Building 1

Santa Fe, New Mexico 87505-6303

Phone (505) 476-6000 Fax (505) 476-6030

www.nmenv.state.nm.us



RON CURRY
Secretary

SARAH COTTRELL
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

August 18, 2010

Mr. Ed Riege
Environmental Manager
Western Refining, Southwest Inc., Gallup Refinery
Route 3, Box 7
Gallup, New Mexico 87301

**RE: NOTICE OF DISAPPROVAL
LAND TREATMENT UNIT POST CLOSURE SAMPLING EVENT
WESTERN REFINING COMPANY SOUTHWEST INC., GALLUP REFINERY
EPA ID # NMD000333211
HWB-WRG-10-005**

Dear Mr. Riege:

The New Mexico Environment Department (NMED) has completed its review of the *Land Treatment Unit Post Closure Sampling Event* (Report), dated March 2010, submitted on behalf of Western Refining Company Southwest Inc., Gallup Refinery (the Permittee). NMED hereby issues this Notice of Disapproval (NOD) and provides the following comments.

Comment 1

The Permittee's submittal includes a report from Trihydro (*Land Treatment Unit Soil Sampling Report*, dated January 5, 2010) and a binder that includes soil and groundwater sampling laboratory reports. The Permittee must provide a narrative of the soil sampling and monitoring well sampling (e.g., procedures, investigation derived waste (IDW) management, etc.), any deviations from the requirements listed in the Permit, and the sampling results. The Permittee must revise the Report to include this information.

Ed Riege
Gallup Refinery
August 18, 2010
Page 2

Comment 2

The Permittee does not discuss the soil sampling laboratory analytical results that are included in the binder. The Permittee must revise the Report to discuss the Zone of Influence and the Treatment Zone soil sampling and compare the sampling results to New Mexico Soil Screening Levels, background levels and previous results (see Appendix E, Section 2.2 (Background Values) of the Permit). The Permittee must revise the Report to discuss these data.

Comment 3

The binder includes laboratory reports; however, the Permittee does not discuss groundwater monitoring or the groundwater sampling results. The Permittee must revise the Report to discuss the groundwater sampling (e.g., methods, procedures, deviations), and groundwater sampling results, and perform a statistical analysis as required by Section E.2.6 (Statistical Procedures) and Section 5.8 (Statistical Evaluation of Laboratory Data) of the Permit.

Comment 4

Page 2, paragraph 2, of the Trihydro Report, under the heading "LTU Soil Sampling," states that "[t]he hand auger was advanced to the desired sample interval and samples were extracted onto clean plastic sheeting to allow for sample collection as illustrated in photos 9 through 11 in Attachment 3." Samples collected for analysis of volatile organic compounds (VOC) must be collected with minimal disturbance; therefore, transferring a soil sample from a sampler to a plastic sheet and then to a sample container is unacceptable because it would invalidate the VOC analyses. The Permittee must collect soil samples in accordance the procedures which are described in Appendix E, Section 7 of the Permit and collect samples for VOC analysis in accordance with EPA Method 8260. The Permittee must resample the LTU soils for VOC analysis and revise the Report to include this information.

Ed Riege
Gallup Refinery
August 18, 2010
Page 3

The Permittee must address all comments contained in this NOD and submit a revised Report to NMED on or before December 10, 2010. The revised Report must be submitted with a response letter that details where all revisions have been made, cross-referencing NMED's numbered comments. In addition, an electronic version of the revised Plan must be submitted that identifies where all changes have been made in red-line strikeout format.

If you have questions regarding this letter please contact Kristen Van Horn of my staff at 505-476-6046.

Sincerely,



James P. Bearzi
Chief
Hazardous Waste Bureau

cc: J. Kieling, NMED HWB
D. Cobrain NMED HWB
H. Monzeglio, NMED HWB
K. Van Horn, NMED HWB
C. Chavez, OCD

File: Reading File and WRG 2010 File
HWB-WRG-10-005

October 11, 2010

Mr. Carl J. Chavez
Environmental Engineer
New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Oil Conservation Division Landfarm Exceedances for Chloride,
Western Refining Company Southwest, Inc., Gallup Refinery, Gallup, New Mexico

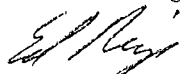
Dear Mr. Chavez:

Western Refining Company's Gallup Refinery (Gallup) is submitting this correspondence to inform the New Mexico Oil Conservation Division (OCD) of chloride exceedances detected during semiannual vadose zone soil sampling conducted at Gallup's Northeast and Central Landfarms during August 2010. Samples were collected from four randomly selected locations in each landfarm and analyzed for benzene, ethylbenzene, toluene, xylenes (BTEX); total petroleum hydrocarbons (TPH); and chloride. Samples results were non-detect for BTEX and TPH. However, chloride soil concentrations ranged from 190 to 600 milligrams per kilogram which is above the practical quantitation limit (PQL) and the current background soil concentration. A summary of laboratory analytical data is provided as Table 1 which is included as an attachment to this correspondence.

Per Section 21.E.(e) of Gallup's Discharge Permit (GW-032), dated August 23, 2007, Gallup intends to "collect and analyze a minimum of four randomly selected, independent samples for TPH, BTEX, chlorides, and the constituents listed in Item F5 below i.e. Subsections A and B of 20.6.2.3103 NMAC" to verify or dispute the August 2010 soil sample exceedances. Per Section 21.E.(a) of the Permit, vadose zone samples will be collected from three to four feet below the cell's original ground surface. Gallup will submit the results of the re-sampling event and, if necessary, a response action plan to OCD within 45 days of this initial notification.

Gallup plans to collect the additional soil samples during the first week of November 2010. If you have any questions or comments, please do not hesitate to call us at (505) 722-0217.

Sincerely
Western Refining Company


Ed Riege
Environmental Manager

697-039-001
Attachment

cc: Kristen Van Horn NMED HWB
C. Johnson, Western Refining
G. Price, Trihydro Corporation

**TABLE 1. DATA SUMMARY, AUGUST 2010 SEMIANNUAL OIL CONSERVATION DIVISION LANDFARM SOIL SAMPLING RESULTS
WESTERN REFINING, GALLUP REFINERY, GALLUP, NEW MEXICO**

Grid #	Sample ID	Depth (ft bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Chloride (mg/kg)	TPH (mg/kg)
			Method 8021B				Method 300.0	Method 418.1
1467	CentralOCD-03-82410	3.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	190	ND(20)
433	CentralOCD-06-82410	3.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	250	ND(20)
732	CentralOCD-09-82410	3.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	270	ND(20)
1873	CentralOCD-12-82410	3.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	570	ND(20)
194	NEOCD-03-82510	3.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	270	ND(20)
377	NEOCD-06-82510	3.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	260	ND(20)
478	NEOCD-09-82510	3.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	230	ND(20)
87	NEOCD-12-82510	3.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	600	ND(20)
PQLs			0.02	0.05	0.05	0.05	0.3	20
Background			ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(7.5)	NA

Notes:
Background soil concentrations obtained from Sample ID "Background" collected on 2/17/2010 by Western Refining.
VOCs for Background soil were analyzed per Method 8260B. Landfarm samples were analyzed Method 8021B.
PQLs (Practical Quantitation Limits) were obtained from Hall Environmental Laboratories.
BOLD data indicates exceedance of PQL and/or Background.

Chavez, Carl J, EMNRD

From: Riege, Ed [Ed.Riege@wnr.com]
Sent: Wednesday, December 15, 2010 1:48 PM
To: Chavez, Carl J, EMNRD; VanHorn, Kristen, NMENV
Cc: Grant Price; Regina Mitchell
Subject: FW: OCD Landfarms - 1011126
Attachments: 1011126.pdf

Dear Carl,

Western Refining Company's Gallup Refinery conducted semiannual sampling of the Northeast and Central OCD Landfarms during August of 2010. Chloride exceedances were observed at both landfarms during this sampling event. OCD was notified of the exceedances in a letter dated October 11, 2010. In this correspondence, OCD was informed of Gallup's intent to collect confirmation samples in accordance with Gallup's Discharge Permit. OCD concurred with this plan in an email dated October 12, 2010. Confirmation samples were collected during the first week of November, 2010, as proposed in the October 11, 2010 correspondence. Per Gallup's Discharge Permit, the results of the re-sampling event and a response action plan (if required) are to be submitted to OCD within 45 days of the initial exceedance notification. The results of the confirmation sampling event are attached. However, since these results were received on Monday (December 13, 2010), Gallup has not had time to validate and evaluate the data. Gallup intends to conduct a Tier II data validation and evaluate the new data prior to determining the appropriate path forward. OCD will be notified and consulted once the data is validated and evaluated. If you have any comments or questions regarding the information in this email, please do not hesitate to contact me.

Thanks,

Ed

Ed Riege
Environmental Manager

Western Refining
Gallup Refinery
Route 3 Box 7
Gallup, NM 87301
(505) 722-0217
ed.riege@wnr.com

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-01

Client Sample ID: CentralOCD 01 110210
Collection Date: 11/2/2010 10:15:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Surr: Decachlorobiphenyl	84.4	16.9-111		%REC	1	11/6/2010 8:54:28 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	2.6	1.5		mg/Kg	5	11/16/2010 3:41:56 AM
Chloride	720	30		mg/Kg	20	11/16/2010 3:59:21 AM
Nitrogen, Nitrate (As N)	9.4	1.5		mg/Kg	5	11/16/2010 3:41:56 AM
Sulfate	470	7.5		mg/Kg	5	11/16/2010 3:41:56 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:26:04 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 9:31:56 AM
Barium	330	1.0		mg/Kg	10	11/18/2010 10:05:45 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 9:31:56 AM
Chromium	16	1.5		mg/Kg	5	11/17/2010 9:31:56 AM
Copper	4.4	1.5		mg/Kg	5	11/17/2010 9:31:56 AM
Iron	15000	500		mg/Kg	500	11/18/2010 12:18:48 PM
Lead	6.3	1.3		mg/Kg	5	11/17/2010 9:31:56 AM
Manganese	380	1.0		mg/Kg	10	11/18/2010 10:05:45 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 9:31:56 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 9:31:56 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:05:45 AM
Zinc	24	13		mg/Kg	5	11/17/2010 9:31:56 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-03

Client Sample ID: CentralOCD 03 110210
Collection Date: 11/2/2010 11:45:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Surr: Decachlorobiphenyl	86.4	16.9-111		%REC	1	11/6/2010 12:01:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	6.0		mg/Kg	20	11/16/2010 5:26:24 AM
Chloride	210	30		mg/Kg	20	11/16/2010 5:26:24 AM
Nitrogen, Nitrate (As N)	7.2	6.0		mg/Kg	20	11/16/2010 5:26:24 AM
Sulfate	470	30		mg/Kg	20	11/16/2010 5:26:24 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:33:08 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 10:16:32 AM
Barium	210	0.50		mg/Kg	5	11/17/2010 10:16:32 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 10:16:32 AM
Chromium	15	1.5		mg/Kg	5	11/17/2010 10:16:32 AM
Copper	4.5	1.5		mg/Kg	5	11/17/2010 10:16:32 AM
Iron	14000	500		mg/Kg	500	11/18/2010 12:24:53 PM
Lead	5.2	1.3		mg/Kg	5	11/17/2010 10:16:32 AM
Manganese	370	1.0		mg/Kg	10	11/18/2010 10:20:12 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 10:16:32 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 10:16:32 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:20:12 AM
Zinc	25	13		mg/Kg	5	11/17/2010 10:16:32 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-04

Client Sample ID: Central OCD 04 110210
Collection Date: 11/2/2010 12:10:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Surr: Decachlorobiphenyl	87.6	16.9-111		%REC	1	11/6/2010 12:48:24 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	6.6	3.0		mg/Kg	10	11/16/2010 5:43:48 AM
Chloride	380	15		mg/Kg	10	11/16/2010 5:43:48 AM
Nitrogen, Nitrate (As N)	4.7	3.0		mg/Kg	10	11/16/2010 5:43:48 AM
Sulfate	600	15		mg/Kg	10	11/16/2010 5:43:48 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:34:55 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 10:24:18 AM
Barium	380	1.0		mg/Kg	10	11/18/2010 10:35:34 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 10:24:18 AM
Chromium	16	1.5		mg/Kg	5	11/17/2010 10:24:18 AM
Copper	4.3	1.5		mg/Kg	5	11/17/2010 10:24:18 AM
Iron	16000	500		mg/Kg	500	11/18/2010 12:27:47 PM
Lead	5.2	1.3		mg/Kg	5	11/17/2010 10:24:18 AM
Manganese	320	1.0		mg/Kg	10	11/18/2010 10:35:34 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 10:24:18 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 10:24:18 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:35:34 AM
Zinc	23	13		mg/Kg	5	11/17/2010 10:24:18 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-06

Client Sample ID: NEOCD 02 110210
Collection Date: 11/2/2010 1:40:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Surr: Decachlorobiphenyl	101	16.9-111		%REC	1	11/6/2010 2:21:13 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	6.0		mg/Kg	20	11/16/2010 6:53:26 AM
Chloride	72	30		mg/Kg	20	11/16/2010 6:53:26 AM
Nitrogen, Nitrate (As N)	17	6.0		mg/Kg	20	11/16/2010 6:53:26 AM
Sulfate	270	30		mg/Kg	20	11/16/2010 6:53:26 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:38:32 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 10:52:22 AM
Barium	330	1.0		mg/Kg	10	11/18/2010 10:48:43 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 10:52:22 AM
Chromium	13	1.5		mg/Kg	5	11/17/2010 10:52:22 AM
Copper	2.7	1.5		mg/Kg	5	11/17/2010 10:52:22 AM
Iron	14000	500		mg/Kg	500	11/18/2010 12:49:07 PM
Lead	5.9	1.3		mg/Kg	5	11/17/2010 10:52:22 AM
Manganese	380	1.0		mg/Kg	10	11/18/2010 10:48:43 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 10:52:22 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 10:52:22 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:48:43 AM
Zinc	24	13		mg/Kg	5	11/17/2010 10:52:22 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-07

Client Sample ID: NEOCD 03 1102010
Collection Date: 11/2/2010 2:00:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Surr: Decachlorobiphenyl	98.8	16.9-111		%REC	1	11/6/2010 5:31:43 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	6.0		mg/Kg	20	11/16/2010 7:10:51 AM
Chloride	120	30		mg/Kg	20	11/16/2010 7:10:51 AM
Nitrogen, Nitrate (As N)	6.8	6.0		mg/Kg	20	11/16/2010 7:10:51 AM
Sulfate	660	30		mg/Kg	20	11/16/2010 7:10:51 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:44:01 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 11:00:20 AM
Barium	320	1.0		mg/Kg	10	11/18/2010 10:56:56 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 11:00:20 AM
Chromium	12	1.5		mg/Kg	5	11/17/2010 11:00:20 AM
Copper	2.1	1.5		mg/Kg	5	11/17/2010 11:00:20 AM
Iron	13000	500		mg/Kg	500	11/18/2010 12:52:12 PM
Lead	5.9	1.3		mg/Kg	5	11/17/2010 11:00:20 AM
Manganese	390	1.0		mg/Kg	10	11/18/2010 10:56:56 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 11:00:20 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 11:00:20 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:56:56 AM
Zinc	17	13		mg/Kg	5	11/17/2010 11:00:20 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, February 08, 2011 7:01 AM
To: 'Riege, Ed'
Subject: GW-032 OCD Landfarm Sampling & NE Closure Sampling Submittal

Ed:

Good morning. I'm in receipt of the above subject submittal.

I will respond this week on or before Friday COB

Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/oed/index.htm>
(Pollution Prevention Guidance is under "Publications")



COVER LETTER

Friday, July 10, 2009

Gaurav Rajen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-0227

FAX (505) 722-0210

RE: Landfarms Semi-Annual

Order No.: 0906596

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 12 sample(s) on 6/29/2009 for the analyses presented in the following report.

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

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

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

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425

AZ license # AZ0682

ORELAP Lab # NM100001

Texas Lab# T104704424-08-TX



Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup
Project: Landfarms Semi-Annual
Lab Order: 0906596

CASE NARRATIVE

Analytical Comments for METHOD 8015DRO_S, SAMPLE 0906596-12A: DNOP not recovered due to dilution

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0906596
Project: Landfarms Semi-Annual
Lab ID: 0906596-01

Client Sample ID: LFOCD-001-062509
Collection Date: 6/25/2009 1:30:00 PM
Date Received: 6/29/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/7/2009 5:38:54 PM
Toluene	ND	0.050		mg/Kg	1	7/7/2009 5:38:54 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/7/2009 5:38:54 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/7/2009 5:38:54 PM
Surr: 4-Bromofluorobenzene	97.4	66.8-139		%REC	1	7/7/2009 5:38:54 PM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	1500	15		mg/Kg	50	7/7/2009 1:29:04 PM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	72	20		mg/Kg	1	7/1/2009

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0906596
Project: Landfarms Semi-Annual
Lab ID: 0906596-02

Client Sample ID: LFOCD-002-062509
Collection Date: 6/25/2009 1:45:00 PM
Date Received: 6/29/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/7/2009 6:09:20 PM
Toluene	ND	0.050		mg/Kg	1	7/7/2009 6:09:20 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/7/2009 6:09:20 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/7/2009 6:09:20 PM
Surr: 4-Bromofluorobenzene	96.4	66.8-139		%REC	1	7/7/2009 6:09:20 PM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	240	6.0		mg/Kg	20	7/6/2009 6:50:21 PM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	7/1/2009

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0906596
Project: Landfarms Semi-Annual
Lab ID: 0906596-03

Client Sample ID: LFOCD-003-062509
Collection Date: 6/25/2009 2:00:00 PM
Date Received: 6/29/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						
Chloride	230	1.5		mg/Kg	5	Analyst: TAF 7/7/2009 1:11:40 PM
EPA METHOD 418.1: TPH						
Petroleum Hydrocarbons, TR	12000	400		mg/Kg	20	Analyst: LRW 7/1/2009

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0906596
Project: Landfarms Semi-Annual
Lab ID: 0906596-04

Client Sample ID: LFOCD-004-062509
Collection Date: 6/25/2009 2:15:00 PM
Date Received: 6/29/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/7/2009 7:10:20 PM
Toluene	ND	0.050		mg/Kg	1	7/7/2009 7:10:20 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/7/2009 7:10:20 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/7/2009 7:10:20 PM
Surr: 4-Bromofluorobenzene	98.5	66.8-139		%REC	1	7/7/2009 7:10:20 PM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	240	3.0		mg/Kg	10	7/6/2009 7:07:46 PM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	7/1/2009

Qualifiers: * Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0906596
Project: Landfarms Semi-Annual
Lab ID: 0906596-05

Client Sample ID: LFOCD-005-062509
Collection Date: 6/25/2009 2:30:00 PM
Date Received: 6/29/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/7/2009 7:40:50 PM
Toluene	ND	0.050		mg/Kg	1	7/7/2009 7:40:50 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/7/2009 7:40:50 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/7/2009 7:40:50 PM
Surr: 4-Bromofluorobenzene	92.3	66.8-139		%REC	1	7/7/2009 7:40:50 PM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	180	6.0		mg/Kg	20	7/6/2009 11:11:30 PM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	7/1/2009

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0906596
Project: Landfarms Semi-Annual
Lab ID: 0906596-06

Client Sample ID: LFOCD-006-062509
Collection Date: 6/25/2009 2:45:00 PM
Date Received: 6/29/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/7/2009 8:11:23 PM
Toluene	ND	0.050		mg/Kg	1	7/7/2009 8:11:23 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/7/2009 8:11:23 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/7/2009 8:11:23 PM
Surr: 4-Bromofluorobenzene	91.6	66.8-139		%REC	1	7/7/2009 8:11:23 PM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	240	6.0		mg/Kg	20	7/6/2009 11:28:55 PM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	180	20		mg/Kg	1	7/1/2009

Qualifiers: * Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0906596
Project: Landfarms Semi-Annual
Lab ID: 0906596-07

Client Sample ID: LFNE-007-062509
Collection Date: 6/25/2009 3:15:00 PM
Date Received: 6/29/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	140	6.0		mg/Kg	20	7/8/2009 11:46:19 PM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	240	20		mg/Kg	1	7/1/2009

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0906596
Project: Landfarms Semi-Annual
Lab ID: 0906596-08

Client Sample ID: LFNE-008-062509
Collection Date: 6/25/2009 3:30:00 PM
Date Received: 6/29/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/8/2009 2:16:09 AM
Toluene	ND	0.050		mg/Kg	1	7/8/2009 2:16:09 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/8/2009 2:16:09 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/8/2009 2:16:09 AM
Surr: 4-Bromofluorobenzene	96.5	66.8-139		%REC	1	7/8/2009 2:16:09 AM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	87	6.0		mg/Kg	20	7/7/2009 12:55:56 AM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	24	20		mg/Kg	1	7/1/2009

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0906596
Project: Landfarms Semi-Annual
Lab ID: 0906596-09

Client Sample ID: LFNE-009-062509
Collection Date: 6/25/2009 3:45:00 PM
Date Received: 6/29/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/8/2009 2:46:27 AM
Toluene	ND	0.050		mg/Kg	1	7/8/2009 2:46:27 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/8/2009 2:46:27 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/8/2009 2:46:27 AM
Surr: 4-Bromofluorobenzene	96.8	66.8-139		%REC	1	7/8/2009 2:46:27 AM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	130	6.0		mg/Kg	20	7/7/2009 1:13:21 AM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	39	20		mg/Kg	1	7/1/2009

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0906596
Project: Landfarms Semi-Annual
Lab ID: 0906596-10

Client Sample ID: LFNE-010-062509
Collection Date: 6/25/2009 4:00:00 PM
Date Received: 6/29/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/8/2009 3:17:04 AM
Toluene	ND	0.050		mg/Kg	1	7/8/2009 3:17:04 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/8/2009 3:17:04 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/8/2009 3:17:04 AM
Surr: 4-Bromofluorobenzene	90.9	66.8-139		%REC	1	7/8/2009 3:17:04 AM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	150	6.0		mg/Kg	20	7/7/2009 1:30:45 AM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	36	20		mg/Kg	1	7/1/2009

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0906596
Project: Landfarms Semi-Annual
Lab ID: 0906596-11

Client Sample ID: LFNE-011-062509
Collection Date: 6/25/2009 4:30:00 PM
Date Received: 6/29/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/8/2009 3:47:29 AM
Toluene	ND	0.050		mg/Kg	1	7/8/2009 3:47:29 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/8/2009 3:47:29 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/8/2009 3:47:29 AM
Surr: 4-Bromofluorobenzene	93.1	66.8-139		%REC	1	7/8/2009 3:47:29 AM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	150	6.0		mg/Kg	20	7/7/2009 1:48:10 AM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	7/1/2009

Qualifiers: * Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

Page 11 of 12

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0906596
Project: Landfarms Semi-Annual
Lab ID: 0906596-12

Client Sample ID: RRFOA-001-062509
Collection Date: 6/25/2009 4:30:00 PM
Date Received: 6/29/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	2900	100		mg/Kg	10	7/6/2009
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	7/6/2009
Surr: DNOP	0	61.7-135	S	%REC	10	7/6/2009

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: Landfarms Semi-Annual

Work Order: 0906596

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions									
Sample ID: 0906596-04AMSD		MSD			Batch ID: 19543	Analysis Date: 7/6/2009 7:42:34 PM			
Chloride	250.6	mg/Kg	3.0	101	53.9	146	9.04	20	
Sample ID: MB-19525		MBLK			Batch ID: 19525	Analysis Date: 7/2/2009 9:32:42 AM			
Chloride	ND	mg/Kg	0.30						
Sample ID: MB-19543		MBLK			Batch ID: 19543	Analysis Date: 7/6/2009 6:15:33 PM			
Chloride	ND	mg/Kg	0.30						
Sample ID: LCS-19525		LCS			Batch ID: 19525	Analysis Date: 7/2/2009 9:50:06 AM			
Chloride	14.59	mg/Kg	0.30	97.3	90	110			
Sample ID: LCS-19543		LCS			Batch ID: 19543	Analysis Date: 7/6/2009 6:32:57 PM			
Chloride	14.73	mg/Kg	0.30	98.2	90	110			
Sample ID: 0906596-04AMS		MS			Batch ID: 19543	Analysis Date: 7/6/2009 7:25:10 PM			
Chloride	229.0	mg/Kg	3.0	-43.8	53.9	146			S
Method: EPA Method 418.1: TPH									
Sample ID: 0906596-10AMSD		MSD			Batch ID: 19521	Analysis Date: 7/1/2009			
Petroleum Hydrocarbons, TR	127.7	mg/Kg	20	92.0	82	114	1.74	20	
Sample ID: MB-19521		MBLK			Batch ID: 19521	Analysis Date: 7/1/2009			
Petroleum Hydrocarbons, TR	ND	mg/Kg	20						
Sample ID: LCS-19521		LCS			Batch ID: 19521	Analysis Date: 7/1/2009			
Petroleum Hydrocarbons, TR	94.90	mg/Kg	20	94.9	82	114			
Sample ID: 0906596-10AMS		MS			Batch ID: 19521	Analysis Date: 7/1/2009			
Petroleum Hydrocarbons, TR	125.5	mg/Kg	20	89.8	82	114			
Method: EPA Method 8015B: Diesel Range Organics									
Sample ID: MB-19509		MBLK			Batch ID: 19509	Analysis Date: 7/2/2009			
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Motor Oil Range Organics (MRO)	ND	mg/Kg	50						
Sample ID: LCS-19509		LCS			Batch ID: 19509	Analysis Date: 7/2/2009			
Diesel Range Organics (DRO)	54.78	mg/Kg	10	110	64.6	116			
Sample ID: LCSD-19509		LCSD			Batch ID: 19509	Analysis Date: 7/2/2009			
Diesel Range Organics (DRO)	56.89	mg/Kg	10	114	64.6	116	3.77	17.4	

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Landfarms Semi-Annual

Work Order: 0906596

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles									
Sample ID: MB-19506									
		MBLK							
Batch ID:	19506	Analysis Date:	7/6/2009 7:08:00 PM						
Benzene	ND	mg/Kg	0.050						
Toluene	ND	mg/Kg	0.050						
Ethylbenzene	ND	mg/Kg	0.050						
Xylenes, Total	ND	mg/Kg	0.10						
Sample ID: LCS-19506									
		LCS							
Batch ID:	19506	Analysis Date:	7/6/2009 6:07:04 PM						
Benzene	0.8897	mg/Kg	0.050	85.3	78.8	132			
Toluene	0.8987	mg/Kg	0.050	89.9	78.9	112			
Ethylbenzene	0.9764	mg/Kg	0.050	97.6	69.3	125			
Xylenes, Total	2.908	mg/Kg	0.10	96.9	73	128			
Sample ID: LCSD-19506									
		LCSD							
Batch ID:	19506	Analysis Date:	7/6/2009 6:37:31 PM						
Benzene	0.9850	mg/Kg	0.050	96.9	78.8	132	12.4	27	
Toluene	0.9929	mg/Kg	0.050	99.3	78.9	112	9.96	19	
Ethylbenzene	1.082	mg/Kg	0.050	108	69.3	125	10.2	10	R
Xylenes, Total	3.232	mg/Kg	0.10	108	73	128	10.6	13	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU

Date Received:

6/29/2009

Work Order Number 0906596

Received by: AMF

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name: Client drop-off

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☐

Not Shipped ☒

Custody seals intact on sample bottles?

Yes ☒

No ☐

N/A ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☒

Yes ☐

No ☐

Water - Preservation labels on bottle and cap match?

Yes ☐

No ☐

N/A ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

Container/Temp Blank temperature?

7.5°

<6° C Acceptable

If given sufficient time to cool.

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

Corrective Action

February 4, 2011

Mr. Carl J. Chavez
Environmental Engineer
New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RECEIVED OCD
2011 FEB -7 P 1:50

RE: Semiannual, 5-Year, and Closure Soil Sampling, Oil Conservation Division Landfarms,
Western Refining Company Southwest, Inc., Gallup Refinery, Gallup, New Mexico

Dear Mr. Chavez:

Western Refining Company's Gallup Refinery (Gallup) is submitting this correspondence to present the results of the November 2010 soil sampling conducted at the Northeast (NE) and Central Oil Conservation Division (OCD) Landfarms at Western Refining Company Southwest's Gallup Refinery located in Gallup, New Mexico. Semiannual vadose zone soil sampling was conducted in August, 2010 at Gallup's NE and Central OCD Landfarms. Analytical results from this sampling event indicated that chloride soil concentrations exceeded Gallup's current background soil concentration and the practical quantitation limit (PQL) at both landfarms. Per Gallup's OCD Discharge Permit GW-032 (Discharge Permit), the higher of the PQL and the background concentration is to be used as the soil screening level. In the event of an exceedance, the Discharge Permit requires that Permittee "collect and analyze a minimum of four randomly selected, independent samples for TPH, BTEX, chlorides, and the constituents listed in Item F5 below i.e. Subsections A and B of 20.6.2.3103 NMAC". In a letter to OCD dated October 11, 2010, Gallup proposed to conduct the above-mentioned re-sampling during the first week of November 2010. OCD concurred with this plan in an email dated October 12, 2010. As the sampling requirements (procedures, constituent lists, etc.) are the same for semiannual vadose zone re-sampling and 5-year vadose zone sampling, Gallup intends to use the November 2010 data set for both the re-sampling and 5-year events. Gallup also collected a four-point composite soil sample at the NE OCD Landfarm to help determine if the landfarm is eligible for closure. The remainder of this correspondence is divided into two sections: NE and Central OCD Landfarm Semiannual/5-year Soil Sampling and NE OCD Landfarm Closure Soil Sampling.

NE and Central OCD Landfarm Soil Sampling

As proposed, confirmation samples were collected during the first week of November 2010. Per the Discharge Permit, the results of the re-sampling event and a response action plan (if required) were to be submitted to OCD within 45 days of the initial exceedance notification. The analytical lab report was received by Gallup on December 13, 2010 and submitted to OCD via email on December 15, 2010. At that point in time, Gallup had not completed data validation or evaluation. On December 15, 2010, Gallup notified OCD of Gallup's intent to conduct a Tier II data validation and evaluate the new data prior to determining the appropriate path forward.

The Tier II data validation and summary tables of the analytical data comparing the data to applicable screening levels are now complete and provided as Attachments A and B to this correspondence, respectively. Tables 1 and 2 of Attachment B summarize the semiannual re-sampling/5-year soil sampling event. Table 3 summarizes potential NE OCD Landfarm closure data and closure standards as discussed in the next section of this correspondence. No data were rejected as a result of the validation. However, the data summary shows that PQL and/or background concentrations were exceeded for several constituents. As mentioned above, per the Discharge Permit, the higher of these two concentrations is to be used as the semiannual and 5-year soil screening level. For the reasons listed below, Gallup does not believe PQLs are appropriate screening levels for Gallup's OCD Landfarms.

PQLs are generally not appropriate to use as soil screening levels as they are variable and are not related to potential risks associated with elevated soils constituent concentrations. They are not based on any toxicity studies and do not take into account the final risk to human health and the environment.

A PQL is the minimum concentration of constituent that can be measured with a 100% confidence that the constituent is present at or above that concentration. PQLs are determined by the laboratory based upon method requirements, instrument capabilities, and laboratory capabilities. PQLs will vary depending upon instrument sensitivity and the effects of the matrix. Most laboratories determine their PQLs on at least an annual basis; so they are subject to change over time. PQLs will vary between laboratories, and will also vary based on the amount of sample volume provided and if dilutions are required. Additionally, if soil samples are analyzed on a dry weight basis, the PQLs will vary due to the amount of moisture content in the sample.

The OCD Landfarm soil samples were analyzed by Hall Environmental of Albuquerque, New Mexico. For these samples, Hall utilized the PQL as the detection limit. Because of this, any constituents that were detected exceed the PQL. An analytical data summary is provided as Attachment B and Hall's analytical report is provided as Attachment C. Detects shown on the analytical summary exceed the PQL.

Gallup believes that utilizing regulated toxicity values such as the New Mexico Environment Department's (NMED) soil screening levels (SSLs) in conjunction with background concentrations is more appropriate than PQLs. These screening levels are shown on the analytical summary tables provided as Attachment B. As demonstrated on the summary tables, none of the constituents that exceeded PQL and/or background concentrations exceed the NMED SSLs. However, NMED SSLs do not exist for chloride, sulfate, or radium. As discussed in the next section of this correspondence, OCD's "Registration/Final Closure Report for Small Landfarm" Form (Form C-137 EZ) provides closure standard soil screening levels for several constituents, including chloride. For the semiannual/5-year sampling event, there were no exceedances of the Form C-137 EZ chloride closure standard of 500 mg/kg in the NE OCD Landfarm. Of the four samples collected in the Central OCD landfarm, one exceeded the chloride closure standard.

Based on this information, Gallup considers chloride, sulfate, and radium to be the only potential contaminants of concern detected in the vadose zone of the OCD landfarms. Gallup proposes to continue

to monitor the landfarm/s in accordance with the Discharge permit¹. The next semiannual vadose zone monitoring event is scheduled for May 2011. Sulfate and radium will be added to the semiannual monitoring list. Chloride, sulfate, and radium concentrations will be tracked, and if an increasing trend is identified, Gallup will submit a response action plan to OCD for approval.

NE OCD Landfarm Closure Soil Sampling

In an email dated February 18, 2009, Gallup was instructed by OCD to close the NE OCD Landfarm by the expiration date of the Discharge Permit (August 1, 2011). To determine if the NE OCD Landfarm is eligible for closure, Gallup collected an additional four-point composite sample from the NE OCD Landfarm in accordance with Section 21.F of the Discharge Permit. Gallup compared this data to the closure standards listed in OCD's Form C-137 EZ. Form C-137 EZ provides closure standard soil screening levels for several constituents. These constituents include:

- Chloride – 500 mg/kg
- Total Petroleum Hydrocarbons – 2,500 mg/kg
- Total BTEX (benzene, toluene, ethylbenzene, and xylenes) – 50 mg/kg
- Benzene – 0.02 mg/kg
- Diesel Range Organics(DRO)/Gasoline Range Organics (GRO) – 500 mg/kg

As shown on Table 3 (see Attachment B), there are no exceedances of the above-mentioned screening standards. However, Gallup's Discharge Permit utilizes the higher of the PQL and background concentrations as a closure screening standard for constituents listed in Subsections A and B of 20.6.2.3103 NMAC that do not have closure standards per Form C-137 EZ. For the reasons mentioned in the previous section of this correspondence, Gallup does not believe these are appropriate screening levels. For constituents that do not have a Form C-137 EZ closure standard, Gallup believes that the NMED SSLs are more appropriate closure standard screening levels than PQLs/background concentrations. As shown on Table 3 of Attachment B, there were no exceedances of the NMED SSLs detected in the NE OCD Landfarm closure sample. Therefore, Gallup believes that, based on the November 2010 sampling event, the NE OCD Landfarm should be eligible for closure. Pending OCD approval of this correspondence, Gallup will submit a Final Closure Report/Form C-137 EZ for the NE OCD Landfarm so that the Landfarm may be closed prior to the Discharge Permit renewal date.

Pending OCD approval of this correspondence, Gallup intends to continue conducting OCD landfarm soil monitoring for the Central OCD Landfarm in accordance with the Discharge Permit utilizing the screening levels described above. The next semiannual vadose zone monitoring event is scheduled for May 2011. As mentioned above, concentrations of potential contaminants of concern will be tracked. Should an increasing trend be identified, a response action plan will be submitted to OCD for approval.

¹ Should the NE OCD Landfarm be closed prior to the next sampling event (see "NE OCD Landfarm Closure Soil Sampling" section of this correspondence), this statement will only be applicable to the Central OCD Landfarm.

If you have any questions or comments, please do not hesitate to call us at (505) 722-0217.

Sincerely
Western Refining Company

A handwritten signature in black ink, appearing to read 'Ed Riege', with a stylized, cursive script.

Ed Riege
Environmental Manager

697-039-002

Attachments

cc: C. Johnson, Western Refining
G. Price, Trihydro Corporation
K. Van Horn, NMED

TABLE 3. NORTHEAST OIL CONSERVATION DIVISION LANDFARM ANALYTICAL SUMMARY
2010 LANDFARM CLOSURE SOIL SAMPLING
WESTERN REFINING SOUTHWEST, GALLUP REFINERY, GALLUP, NEW MEXICO

Date Collected	Sample ID	Analyte	Results	Screening Levels			
				Closure Standard per Form C-137 EZ	Closure Standard per Discharge Permit	NMED Soil Screening Levels	Background
11/2/2010	NEOCD Closure 110210	Barium	300 15	NA	POL/Background 500	224000	310
11/2/2010	NEOCD Closure 110210	Chloride	100 5	500		NA	ND(7.5)
11/2/2010	NEOCD Closure 110210	Chromium	15 0.75	NA	POL/Background	2920	8.0
11/2/2010	NEOCD Closure 110210	Copper	3.6 0.18	NA	POL/Background	45400	4.0
11/2/2010	NEOCD Closure 110210	Diesel Range Organics (DRO)	210 10.5	NA	POL/Background	NA	ND(10)
11/2/2010	NEOCD Closure 110210	Fluoride	8.9 0.45	NA	POL/Background	68100	3.3
11/2/2010	NEOCD Closure 110210	Iron	16000 800	NA	POL/Background	765000	NA
11/2/2010	NEOCD Closure 110210	Lead	84 0.42	NA	POL/Background	800	NA
11/2/2010	NEOCD Closure 110210	Manganese	460 23	NA	POL/Background	145000	NA
11/2/2010	NEOCD Closure 110210	Motor Oil Range Organics (MRO)	82 4.1	NA	POL/Background	NA	ND(50)
11/2/2010	NEOCD Closure 110210	Nitrogen, Nitrate (As N)	14 0.7	NA	POL/Background	1820000	2.2
11/2/2010	NEOCD Closure 110210	Petroleum Hydrocarbons, TR	90 4.5	2500	POL/Background 2500	NA	NA
11/2/2010	NEOCD Closure 110210	Radium-226	0.5 0.03	NA	POL/Background	NA	1.5
11/2/2010	NEOCD Closure 110210	Radium-228	1 0.05	NA	POL/Background	NA	1.1
11/2/2010	NEOCD Closure 110210	Sulfate	670 33.5	NA	POL/Background	NA	18
11/2/2010	NEOCD Closure 110210	Zinc	24 1.2	NA	POL/Background	341000	NA
11/2/2010	NEOCD Closure 110210	All Others	ND(0.1) 0.605	NA	POL/Background	NA	NA
11/2/2010	NEOCD Closure 110210	Total BTEX	ND(0.05) 0.003	50	50	NA	ND(0.1)
11/2/2010	NEOCD Closure 110210	Benzene	ND(0.05) 0.003	0.2	0.2	85.4	ND(0.05)
11/2/2010	NEOCD Closure 110210	DRO/GRO	215 10.75	500	500	NA	ND(10)

Notes:

¹Highest Detection limit used.
²DRO result + GRO Detection Limit

- Form C-137 EZ = Registration /Final Closure Report for Small Landfarm.
- There are no exceedances of Form C-137 EZ screening standards
- Analytes not shown on table were non-detect for all sample locations.
- Per Hall's Analysis, the detection limit equals the POL. Therefore, detections shown on the table above exceeds the POL.
- Background soil concentrations obtained from Sample ID "Background" collected on 2/17/2010 by Western Refining
- Background soil data was not validated by Trihydro.
- Yellow highlighting indicates exceedance of background value
- NA = Data not available.
- ND(##) = non-detect (detection limit).
- Radium Results in pCi/g, all others mg/kg.
- NMED Soil Screening Levels = Industrial/Occupational Soil Screening Levels (mg/kg) (December 2009).
- DRO = Diesel Range Organics
- GRO = Gasoline Range Organics
- POL = Practical Quantitation Limit
- NMED = New Mexico Environment Department.

TABLE 2. CENTRAL OIL CONSERVATION DIVISION LANDFARM ANALYTICAL SUMMARY
2010 SEMIANNUAL CONFIRMATION SAMPLING AND FIVE YEAR SAMPLING
WESTERN REFINING SOUTHWEST, GALLUP REFINERY, GALLUP NEW MEXICO

Sample ID	Barium	Chloride	Chromium	Copper	Fluoride	Iron	Lead
CentralOCD 01 110210	330 16.5	720	16 0.8	44 0.22	26 0.13	15000 750	63 0.32
CentralOCD 02 110210	280 14	78	21 1.05	22 1.1	29 0.15	17000 850	86 0.43
CentralOCD 03 110210	210 10.5	210	15 0.75	45 0.23	ND(6.0) 0.3	14000 700	52 0.26
CentralOCD 04 110210	380 19	380	16 0.8	43 0.22	66 0.33	16000 800	52 0.26
Screening Levels							
NMED Soil Screening Levels	224000	NA	2920	45400	68100	795000	800
Background	310	ND(7.5)	8.0	4.0	3.3	NA	NA
Sample ID	Manganese	Mercury	Nitrogen, Nitrate (As N)	Radium-226	Radium-228	Sulfate	Zinc
CentralOCD 01 110210	360 19	ND(0.033) 0.002	94 0.47	0.4	1.1	470 23.5	24 1.2
CentralOCD 02 110210	430 21.5	0.036 0.002	63 0.32	0.04	ND(0.04)	790 39.5	96 4.8
CentralOCD 03 110210	370 18.5	ND(0.033) 0.002	72 0.36	0.5	ND(0.9)	470 23.5	25 1.25
CentralOCD 04 110210	320 16	ND(0.033) 0.002	47 0.23	0.8	ND(0.8)	600 30	23 1.15
Screening Levels							
NMED Soil Screening Levels	145000	49.9	1820000	NA	NA	NA	341000
Background	NA	ND(0.033)	2.2	1.5	1.1	18	NA

Notes:

- Analytes not shown on table were non-detect for all sample locations.
- Initial sampling of TPH, BTEX, and chlorides conducted in August 2010 showed chloride PQL exceedances.
- Per the permit, "if vadose zone sampling results show that the concentrations of TPH, BTEX, or chlorides exceed the higher of the PQL or the background soil concentrations... The operator shall immediately collect and analyze... samples for TPH, BTEX, chlorides, and the constituents listed in... Subsections A and B of 20.6.2.3103 NMAC".
- The above mentioned sampling was conducted in November 2010, data from this event will be utilized as both the semiannual exceedance sampling and the 5-year vadose zone sampling since the analyte lists are the same.
- Per Hal's Analysis, the detection limit equals the PQL. Therefore, detections shown on the table above exceeds the PQL.
- Background soil concentrations obtained from Sample ID "Background" collected on 2/17/2010 by Western Refining.
- Background soil data was not validated by Trihydro.
- Yellow highlighting indicates exceedance of background value.
- NA = Data not available
- ND(##) = non-detect (detection limit).
- Radium Results in pCi/g, all others mg/kg.
- NMED Soil Screening Levels = Industrial/Occupational Soil Screening Levels (mg/kg) (December 2009).
- PQL = Practical Quantitation Limit.
- TPH = Total Petroleum Hydrocarbons.
- BTEX = benzene, ethylbenzene, toluene, and xylenes.
- NMED Soil Screening Level for chromium VI used for chromium.

TABLE 1. NORTHEAST OIL CONSERVATION DIVISION LANDFARM ANALYTICAL SUMMARY
2010 SEMIANNUAL CONFIRMATION SAMPLING AND FIVE YEAR SAMPLING
WESTERN REFINING SOUTHWEST, GALLUP REFINERY, GALLUP NEW MEXICO

Sample ID	Barium	Chloride	Chromium	Copper	Iron	Lead	Manganese	Nitrogen, Nitrate (As N)	Radium-226	Radium-228	Sulfate	Zinc
NEOCD 01 110210	250 0.7	100	14 0.7	3.2 0.16	17000 850	7.0 0.35	380 19	ND(6.0)	0.8	1.5	230 11.5	21 1.05
NEOCD 02 110210	330 1.5	72	13 0.65	2.7 0.14	14000 700	5.9 0.30	380 19	17 0.85	0.6	1.5	270 13.5	24 1.2
NEOCD 03 1102010	320 1.5	120	12 0.6	2.1 0.11	13000 650	5.9 0.30	390 19.5	6.8 0.34	0.6	1.4	680 33	17 0.85
NEOCD 04 110210	310 1.5	60	16 0.8	3.6 0.18	17000 850	6.9 0.35	420 21	61 3.05	0.6	1.1	390 19.5	23 1.15
Screening Levels												
NMED Soil Screening Levels	224000	NA	2920	45400	795000	800	145000	1820000	NA	NA	NA	341000
Background	310	ND(7.5)	8.0	4.0	NA	NA	NA	2.2	1.5	1.1	18	NA

Notes:

- Analytes not shown on table were non-detect for all sample locations.
- Initial sampling of TPH, BTEX, and chlorides conducted in August 2010 showed chloride PQL exceedances.
- Per the permit, "if vadose zone sampling results show that the concentrations of TPH, BTEX, or chlorides exceed the higher of the PQL or the background soil concentrations.... The operator shall immediately collect and analyze... samples for TPH, BTEX chlorides, and the constituents listed in Subsections A and B of 20.6.2.3103 NMAC."
- The above mentioned sampling was conducted in November 2010; data from this event will be utilized as both the semiannual exceedance sampling and the 5-year vadose zone sampling since the analyte lists are the same.
- Per Hall's Analysis, the detection limit equals the PQL. Therefore, detections shown on the table above exceeds the PQL.
- Background soil concentrations obtained from Sample ID "Background" collected on 2/17/2010 by Western Refining.
- Background soil data was not validated by Trihydro.
- Yellow highlighting indicates exceedance of background value.
- NA = Data not available.
- ND(##) = non-detect (detection limit).
- Radium Results in pCi/g, all others mg/kg.
- NMED Soil Screening Levels = Industrial/Occupational Soil Screening Levels (mg/kg) (December 2009).
- PQL = Practical Quantitation Limit.
- TPH = Total Petroleum Hydrocarbons.
- BTEX = benzene, ethylbenzene, toluene, and xylenes.
- NMED Soil Screening Level for chromium VI used for chromium.

ATTACHMENT A
TIER II DATA VALIDATION



Tier II Data Validation Report Summary

Client: Western Refining Company-Gallup, NM	Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM and Energy Laboratories, Billings, MT
Project Name: LTU RCRA Soil Sampling	Sample Matrix: Soil
Project Number: 697-039-002 Task 0004	Sample Start Date: 11/02/2010
Date Validated: 12/28/2010	Sample End Date: 11/02/2010
Parameters Included: Volatile Organic Compounds (VOC) by Solid Waste 846 (SW-846) Method 8260B, Semi-volatile Organic Compounds (SVOC) by SW-846 Method 8270C, Cyanide by SW-846 9012, Total Metals by SW-846 Methods 6010B, 6020, and 7471A, Radium 226 by Environmental Protection Agency (EPA) Method 903.0, Radium 228 by Method Radium (RA) 05, Total Petroleum Hydrocarbons (TPH) by OA2	
Laboratory Project ID: 1011126 (Hall Environmental) and B10110548 (Energy Labs)	
Data Validator: Christina Hiegel, Civil Engineer, P.E.	

DATA EVALUATION CRITERIA SUMMARY

A Tier II Data Validation was performed by Trihydro Corporation's Chemical Data Evaluation Services Group on the analytical data report package generated by Hall Environmental Analysis Laboratory and Energy Laboratories, evaluating samples from the Western Refining Company site, located in Gallup, NM.

Precision, accuracy, method compliance, and completeness of this data package were assessed during this data review. Precision was determined by evaluating the calculated relative percent difference (RPD) values of samples from field duplicate pairs and laboratory duplicate pairs. Laboratory accuracy was established by reviewing the demonstrated percent recoveries of matrix spike (MS) and matrix spike duplicate (MSD) samples, and of laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) to verify that data are not biased. Additionally, field accuracy was established by collecting field, trip, and equipment blanks to monitor for possible ambient or cross contamination during sampling. Method compliance was established by reviewing holding times, detection limits, surrogate recoveries, method blanks, and the LCS and LCSD percent recoveries against method-specific requirements. Completeness was evaluated by determining the overall ratio of the number of samples planned versus the number of samples with valid analyses. Determination of completeness included a review of the chain-of-custody (CoC), laboratory analytical methods, and other necessary documents associated with this analytical data set.

Data were evaluated in general accordance with validation criteria set forth in the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review, document number USEPA-540-R-08-01, June 2008 with additional reference to the USEPA CLP National Functional Guidelines for Organic Data Review, document number EPA 540/R-99-008, October 1999 and the USEPA CLP National Functional Guidelines for Inorganic Superfund Data Review, document number EPA 540R-10-011, January 2010. Review of duplicates is conducted in accordance with USEPA Region 1 Laboratory Data Validation Functional Guidelines for Evaluation of Organic Analysis, December 1996.





Tier II Data Validation Report Summary

SAMPLE NUMBERS TABLE

Client Sample ID	Hall Laboratory Sample ID	Energy Laboratory Sample ID
CentralOCD 01 110210	1011126-01	B10110548-001
CentralOCD 02 110210	1011126-02	B10110548-002
CentralOCD 03 110210	1011126-03	B10110548-003
CentralOCD 04 110210	1011126-04	B10110548-004
NEOCD 01 110210	1011126-05	B10110548-005
NEOCD 02 110210	1011126-06	B10110548-006
NEOCD 03 110210	1011126-07	B10110548-007
NEOCD 04 110210	1011126-08	B10110548-008
BD 1 110210	1011126-09	B10110548-009
FB 110210	1011126-10	--
EB 110210	1011126-11	--
NEOCD Closure 110210	1011126-12	B10110548-010
Trip Blank	1011126-13	--



Tier II Data Validation Report

The samples were analyzed for the required analytes. Assessment of CoC completeness is included in Section #3. The laboratory data were reviewed to evaluate compliance with the required methods and the quality of the reported data. A leading check mark (✓) indicates that the referenced validation criteria were deemed acceptable. A preceding crossed circle (⊗) indicates validation criteria for which the data may have been qualified by the data validator. Details are noted in the tables below.

Validation Criteria

- ✓ Data Completeness
- ✓ CoC Documentation
- ✓ Holding Times and Preservation
- ✓ Laboratory Blanks
- ⊗ System Monitoring Compounds (i.e., Surrogates)
- ✓ Laboratory Control Samples/Laboratory Control Sample Duplicates
- ⊗ Matrix Spike/Matrix Spike Duplicates
- ✓ Field Duplicates
- ✓ Laboratory Duplicates
- ✓ Field, Equipment, and Trip Blanks

OVERALL DATA PACKAGE ASSESSMENT

Based on a data validation review, the data are acceptable as delivered; exceptions (i.e., rejected data) are noted below. Data qualified by the laboratory are discussed in Section #2.

The purpose of validating data and assigning qualifiers is to assist in proper data interpretation. Data which are not qualified meet the site data quality objectives. If values are assigned qualifiers other than an R (rejected, data not usable), the data may be used for site evaluation, with the reasons for qualification being given consideration when interpreting sample concentrations. Data points which are assigned an R qualifier should not be used for site evaluation purposes. Text identified in **bold font** indicates that further action and/or qualification of the data were required. Additional data validation qualifiers were added for the items noted with crossed circles, above. Please see the Data Qualification Summary table at the end of this report for a complete list of samples and analytes qualified.

Data qualifiers used during this validation included:

- J – Estimated concentration
- UJ – Estimated reporting limit

Data Completeness

The analyses were performed as requested on the CoC records. The associated samples were received by the laboratory and analyzed properly. No data points were rejected. The data completeness measure for this data package is 100% and is acceptable.

VALIDATION CRITERIA CHECKLIST								
1. Was the report free of non-conformances related to the analytical data identified by the laboratory?	Yes							
Comments: The report was free of non-conformances related to the analytical data as identified by the laboratory.								
2. Were data qualification flags or other notes used by the laboratory? If yes, define.	Yes							
Comments: Reported laboratory qualifiers were reviewed and were acceptable. The laboratory noted the following data qualifier. S: Spike recovery outside accepted recovery limits.								
3. Were sample CoC forms complete?	Yes							
Comments: The CoC records from field to laboratory were complete, and custody was maintained as evidenced by field and laboratory personnel signatures, dates, and times of receipt.								
4. Were detection limits in accordance with the quality assurance project plan (QAPP), permit, or method, or indicated as acceptable?	Yes							
Comments: The detection limits appeared to be acceptable. Dilutions were required for anions Method 300 from 5 to 20 times. Dilutions were also required for metals by Method 6010 from 5 to 500 times. Final determinations of the data quality based on reporting limits will be made by the project team.								
5. Were the requested analytical methods in compliance with the QAPP, permit, or CoC?	Yes							
Comments: The laboratory reported the requested constituents in accordance with the CoC and the attached analyte list with the exception of VOCs which were analyzed by Method 8260B instead of 8021. This was acceptable per the associated permit.								
6. Were samples received in good condition within method specified requirements?	Yes							
Comments: Samples were received on ice, intact with custody seals, within the 4°C ± 2°C acceptable range at 2.4°C as noted on the Sample Receipt Checklist.								
7. Were samples analyzed within method specified or technical holding times?	Yes							
Comments: The samples were analyzed within the method specified or technical holding times.								
8. Were reported units appropriate for the sample matrix/matrices and method(s) of analyses?	Yes							
Comments: The results were reported in concentration units of mg/kg, ug/L, and pCi/g-dry. These units are acceptable for the associated matrices and methods.								
9. Do the laboratory reports include all constituents requested to be reported?	Yes							
Comments: The laboratory reported the requested constituents in accordance with the CoC.								
10. Was there indication from the laboratory that the initial or continuing calibration verification results were within acceptable limits?	N/A							
Comments: Initial and continuing calibration data were not requested or included as part of this data set; however, these data are assumed to be acceptable as the laboratory did not note that any calibration results were outside acceptable limits.								
11. Was the total number of laboratory blank samples prepared equal to at least 5% of the total number of samples, or analyzed as required by the method?	Yes							
Comments: The total number of laboratory blank samples prepared was equal to at least 5% of the total number of samples.								
12. Were laboratory blank samples free of analyte contamination?	No							
Comments: The laboratory blank samples were free of analyte contamination with the following exceptions:								
<table border="1"> <thead> <tr> <th>Analyte</th> <th>Batch</th> <th>Detection</th> </tr> </thead> <tbody> <tr> <td>Iron</td> <td>24461</td> <td>2.148 mg/Kg</td> </tr> </tbody> </table>			Analyte	Batch	Detection	Iron	24461	2.148 mg/Kg
Analyte	Batch	Detection						
Iron	24461	2.148 mg/Kg						
The associated iron results did not require qualification since the associated results were greater than 10 times the method blank detections.								



VALIDATION CRITERIA CHECKLIST

13. Was the total number of matrix spike samples prepared equal to at least 5% of the total number of samples, or analyzed as required by the method? No

Comments: The total number of matrix spike samples prepared was equal to at least 5% of the total number of samples with the exception of those as noted in the table below.

Analyte	Analytic Method	Batch	MS/MSD Source Sample
Radium 226	E903.0	C_R140653	Central OCD 02 110210
Radium 228	RA-05	C_28206	Central OCD 02 110210
Cyanide	SW9012	50380	Central OCD 02 110210
Anions	EPA 300	24525	Central OCD 02 110210
TPH	EPA 418.1	24385	Central OCD 02 110210
TPH-DRO	8015B	24372	Not Prepared
TPH-GRO	8015B	24378	NEOCD Closure 110210
PCBs	SW8082	24367	Central OCD 02 110210
VOCs	SW8260B	24378	Central OCD 02 110210
VOCs	SW8260B	R41938	Not Prepared
SVOCs	SW8270C	24447	Central OCD 02 110210
Mercury	SW7471	24471	Central OCD 02 110210
Metals	SW6010B	24461	Central OCD 02 110210

Batches where no MS/MSD samples were prepared were verified using the LCS/LCSD.

14. Were MS/MSD percent recoveries and MS/MSD RPDs within data validation or laboratory quality control (QC) limits? No

Comments: Project specific MS and MSD recoveries and MS/MSD RPD values were within laboratory-specified limits or data validation limits with the following exception. **For analytical batch 24461, the MS samples were outside of the validation limits of 75-125% for selenium and at 42% and 45.8%, and zinc at -72.2% and -14.1%. The associated results were J/UJ qualified due to a low bias.**

15. Was the total number of LCSs analyzed equal to at least 5% of the total number of samples, or analyzed as required by the method? Yes

Comments: The total number of LSC/LCSD samples analyzed was equal to at least 5% of the total number of samples required.

16. Were LCS/LCSD percent recoveries and LCS/LCSD RPDs within data validation or laboratory QC limits? Yes

Comments: The total number of LSC/LCSD samples analyzed was equal to at least 5% of the total number of samples required.

17. Were surrogate recoveries within laboratory QC limits? No

Comments: The surrogate recoveries were within laboratory QC limits with the following exception.

The percent recovery of the surrogate *1,2-dichloroethane-d4* in sample NEOCD 04 110210, CentralOCD 01 110210, and CentralOCD 02 110210 was above laboratory QC limits of 77.8-97.5% at 98.1%, 102%, and 100%, respectively. Also, the percent recovery of the surrogate *4-bromofluorobenzene* in sample EB 110210 was outside laboratory QC limits of 76.4-106% at 109%. The associated analytes were non-detect in the sample and there was no indication of high bias was evident.

Also, the percent recovery of the surrogate *4-Bromofluorobenzene* in sample CentralOCD 02 110210 was below laboratory QC limit of 82.2-105% at 74.6%. **The associated results were J/UJ qualified due to a possible low bias.**

18. Was the number of equipment, trip, or field blanks collected equal to at least 10% of the total number of samples, or as required by the project guidelines, QAPP, SAP, or permit? Yes

Comments: The number of equipment, trip, or field blanks collected was equal to at least 10% of the total number of samples. One equipment blank, EB 110210, one trip blank, TRIP BLANK, and one field blank, FB 110210, were collected with samples of this data set.



VALIDATION CRITERIA CHECKLIST	
19. Were the trip blank, field blank, and/or equipment blank samples free of analyte contamination?	Yes
Comments: The equipment, trip, and field blanks were free of analyte contamination.	
20. Was the number of field duplicates collected equal to at least 10% of the total number of samples, or as required by the project guidelines, QAPP, SAP, or permit?	Yes
Comments: One field duplicate was collected with samples of this data set. Sample BD-1-110210 was collected as a duplicate of CentralOCD-04-110210 resulting in 10% of the total samples.	
21. Were field duplicate RPD values within data validation QC limits (soil 0-50%, water 0-30%, or air 0-25%)?	Yes
Comments: Field duplicate RPD's were within data validation QC limits as shown below.	
22. Were laboratory duplicate RPD values within laboratory QC limits?	N/A
Comments: Laboratory duplicates were provided with samples of this data set.	



FIELD DUPLICATE SUMMARY

Client Sample ID: CentralOCD-04-110210 Field Duplicate Sample ID: BD 1 110210			
Analyte	Laboratory Result (µg/L)	Duplicate Result (µg/L)	Relative Percent Difference (RPD)
Barium	380	340	11.1%
Chloride	380	390	2.6%
Chromium	16	16	0.0%
Copper	4.3	4	7.2%
Fluoride	6.6	5.4	20.0%
Iron	16000	15000	6.5%
Lead	5.2	4.9	5.9%
Manganese	320	350	9.0%
Nitrogen, Nitrate (As N)	4.7	4.7	0.0% (+/-RL)
Sulfate	600	650	8.0%
Zinc	23	23	0.0% (+/-RL)
Radium-226	0.8	0.6	28.6% (+/-RL)
Radium-228	0.8	0.8	0.0%
Field duplicate RPD control limits are not to exceed 30% for water, 50% for soil, or 25% for air or vapor as established by USEPA Region 1 Laboratory Data Validation Function Guidelines for Evaluation of Organic Analysis, December 1996.			
+/-RL – Indicates that the detections in the samples are within two times the reporting limit. No qualification of data is required.			



DATA QUALIFICATION SUMMARY

Analyte	Method	Field Sample ID	Lab Sample ID	Result (mg/kg)	Reviewer Qualifier	Reviewer Qualifier Reason
Selenium	SW6010A	BD 1 110210	1011126-09	ND(13)	UJ	Low MS/MSD recovery
Zinc	SW6010A	BD 1 110210	1011126-09	23	J	Low MS/MSD recovery
Selenium	SW6010A	Central OCD 04 110210	1011126-04	ND(13)	UJ	Low MS/MSD recovery
Zinc	SW6010A	Central OCD 04 110210	1011126-04	23	J	Low MS/MSD recovery
Selenium	SW6010A	CentralOCD 01 110210	1011126-01	ND(13)	UJ	Low MS/MSD recovery
Zinc	SW6010A	CentralOCD 01 110210	1011126-01	24	J	Low MS/MSD recovery
Selenium	SW6010A	CentralOCD 02 110210	1011126-02	ND(13)	UJ	Low MS/MSD recovery
Zinc	SW6010A	CentralOCD 02 110210	1011126-02	96	J	Low MS/MSD recovery
Selenium	SW6010A	CentralOCD 03 110210	1011126-03	ND(13)	UJ	Low MS/MSD recovery
Zinc	SW6010A	CentralOCD 03 110210	1011126-03	25	J	Low MS/MSD recovery
Selenium	SW6010A	NEOCD 01 110210	1011126-05	ND(13)	UJ	Low MS/MSD recovery
Zinc	SW6010A	NEOCD 01 110210	1011126-05	21	J	Low MS/MSD recovery
Selenium	SW6010A	NEOCD 02 110210	1011126-06	ND(13)	UJ	Low MS/MSD recovery
Zinc	SW6010A	NEOCD 02 110210	1011126-06	24	J	Low MS/MSD recovery
Selenium	SW6010A	NEOCD 03 1102010	1011126-07	ND(13)	UJ	Low MS/MSD recovery
Zinc	SW6010A	NEOCD 03 1102010	1011126-07	17	J	Low MS/MSD recovery
Selenium	SW6010A	NEOCD 04 110210	1011126-08	ND(13)	UJ	Low MS/MSD recovery
Zinc	SW6010A	NEOCD 04 110210	1011126-08	23	J	Low MS/MSD recovery
Selenium	SW6010A	NEOCD Closure 110210	1011126-12	ND(13)	UJ	Low MS/MSD recovery
Zinc	SW6010A	NEOCD Closure 110210	1011126-12	24	J	Low MS/MSD recovery
1,1,1,2-Tetrachloroethane	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
1,1,1-Trichloroethane	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
1,1,2,2-Tetrachloroethane	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
1,1,2-Trichloroethane	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
1,1-Dichloroethane	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.10)	UJ	Low Surrogate Recovery
1,1-Dichloroethene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
1,1-Dichloropropene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.10)	UJ	Low Surrogate Recovery



Analyte	Method	Field Sample ID	Lab Sample ID	Result (mg/kg)	Reviewer Qualifier	Reviewer Qualifier Reason
1,2,3-Trichlorobenzene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.10)	UJ	Low Surrogate Recovery
1,2,3-Trichloropropane	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.10)	UJ	Low Surrogate Recovery
1,2,4-Trichlorobenzene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
1,2,4-Trimethylbenzene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
1,2-Dibromo-3-chloropropane	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.10)	UJ	Low Surrogate Recovery
1,2-Dibromoethane (EDB)	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
1,2-Dichlorobenzene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
1,2-Dichloroethane (EDC)	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
1,2-Dichloropropane	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
1,3,5-Trimethylbenzene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
1,3-Dichlorobenzene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
1,3-Dichloropropane	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
1,4-Dichlorobenzene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
1-Methylnaphthalene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.20)	UJ	Low Surrogate Recovery
2,2-Dichloropropane	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.10)	UJ	Low Surrogate Recovery
2-Butanone	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.5)	UJ	Low Surrogate Recovery
2-Chlorotoluene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
2-Hexanone	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.5)	UJ	Low Surrogate Recovery
2-Methylnaphthalene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.20)	UJ	Low Surrogate Recovery
4-Chlorotoluene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
4-Isopropyltoluene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
4-Methyl-2-pentanone	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.5)	UJ	Low Surrogate Recovery
Acetone	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.75)	UJ	Low Surrogate Recovery
Benzene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
Bromobenzene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
Bromodichloromethane	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
Bromoform	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
Bromomethane	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.15)	UJ	Low Surrogate Recovery



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Analyte	Method	Field Sample ID	Lab Sample ID	Result (mg/kg)	Reviewer Qualifier	Reviewer Qualifier Reason
Carbon disulfide	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.5)	UJ	Low Surrogate Recovery
Carbon tetrachloride	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.10)	UJ	Low Surrogate Recovery
Chlorobenzene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
Chloroethane	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.10)	UJ	Low Surrogate Recovery
Chloroform	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
Chloromethane	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.15)	UJ	Low Surrogate Recovery
cis-1,2-DCE	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
cis-1,3-Dichloropropene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
Dibromochloromethane	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
Dibromomethane	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.10)	UJ	Low Surrogate Recovery
Dichlorodifluoromethane	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
Ethylbenzene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
Hexachlorobutadiene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.10)	UJ	Low Surrogate Recovery
Isopropylbenzene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
Methyl tert-butyl ether (MTBE)	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
Methylene chloride	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.15)	UJ	Low Surrogate Recovery
Naphthalene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.10)	UJ	Low Surrogate Recovery
n-Butylbenzene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
n-Propylbenzene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
sec-Butylbenzene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
Styrene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
tert-Butylbenzene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
Tetrachloroethene (PCE)	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
Toluene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
trans-1,2-DCE	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
trans-1,3-Dichloropropene	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
Trichloroethene (TCE)	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery
Trichlorofluoromethane	SW8260B	CentralOCD 02 110210	1011126-02	ND(0.05)	UJ	Low Surrogate Recovery

Analyte	Method	Field Sample ID	Lab Sample ID	Result (mg/kg)	Reviewer Qualifier	Reviewer Qualifier Reason
Vinyl chloride	SW8260B	CentralOCD 02 110210	1011126- 02	ND(0.05)	UJ	Low Surrogate Recovery
Xylenes, Total	SW8260B	CentralOCD 02 110210	1011126- 02	ND(0.10)	UJ	Low Surrogate Recovery



Trihydro

ATTACHMENT B
DATA SUMMARY TABLES

TABLE 1. NORTHEAST OIL CONSERVATION DIVISION LANDFARM ANALYTICAL SUMMARY
2010 SEMIANNUAL CONFIRMATION SAMPLING AND FIVE YEAR SAMPLING
WESTERN REFINING SOUTHWEST, GALLUP REFINERY, GALLUP NEW MEXICO

Sample ID	Barium	Chloride	Chromium	Copper	Iron	Lead	Manganese	Nitrogen, Nitrate (As N)	Radium-226	Radium-228	Sulfate	Zinc
NEOCD 01 110210	250	100	14	3.2	17000	7.0	380	ND(6.0)	0.8	1.5	230	21
NEOCD 02 110210	330	72	13	2.7	14000	5.9	380	17	0.6	1.5	270	24
NEOCD 03 1102010	320	120	12	2.1	13000	5.9	390	6.8	0.6	1.4	660	17
NEOCD 04 110210	310	60	16	3.6	17000	6.9	420	61	0.6	1.1	390	23
Screening Levels												
NMED Soil Screening Levels	224000	NA	2920	45400	795000	800	145000	1620000	NA	NA	NA	341000
Background	310	ND(7.5)	8.0	4.0	NA	NA	NA	2.2	1.5	1.1	18	NA

Notes:

- Analytes not shown on table were non-detect for all sample locations.
- Initial sampling of TPH, BTEX, and chlorides conducted in August 2010 showed chloride PQL exceedances.
- Per the permit, "if vadose zone sampling results show that the concentrations of TPH, BTEX, or chlorides exceed the higher of the PQL or the background soil concentrations.... The operator shall immediately collect and analyze... samples for TPH, BTEX, chlorides, and the constituents listed in Subsections A and B of 20.6.2.3103 NMAC."
- The above mentioned sampling was conducted in November 2010; data from this event will be utilized as both the semiannual exceedance sampling and the 5-year vadose zone sampling since the analyte lists are the same.
- Per Half's Analysis, the detection limit equals the PQL. Therefore, detections shown on the table above exceeds the PQL.
- Background soil concentrations obtained from Sample ID "Background" collected on 2/17/2010 by Western Refining.
- Background soil data was not validated by Trihydro.
- Yellow highlighting indicates exceedance of background value.
- NA = Data not available.
- ND(##) = non-detect (detection limit).
- Radium Results in pCi/g, all others mg/kg.
- NMED Soil Screening Levels = Industrial/Occupational Soil Screening Levels (mg/kg) (December 2009).
- PQL = Practical Quantitation Limit
- TPH = Total Petroleum Hydrocarbons.
- BTEX = benzene, ethylbenzene, toluene, and xylenes.
- NMED Soil Screening Level for chromium VI used for chromium.

**TABLE 2. CENTRAL OIL CONSERVATION DIVISION LANDFARM ANALYTICAL SUMMARY
2010 SEMIANNUAL CONFIRMATION SAMPLING AND FIVE YEAR SAMPLING
WESTERN REFINING SOUTHWEST, GALLUP REFINERY, GALLUP NEW MEXICO**

Sample ID	Barium	Chloride	Chromium	Copper	Fluoride	Iron	Lead
CentralOCD 01 110210	330	720	16	4.4	2.6	15000	6.3
CentralOCD 02 110210	280	78	21	22	2.9	17000	8.6
CentralOCD 03 110210	210	210	15	4.5	ND(6.0)	14000	5.2
CentralOCD 04 110210	380	380	16	4.3	6.6	16000	5.2
Screening Levels							
NMED Soil Screening Levels	224000	NA	2920	45400	68100	795000	800
Background	310	ND(7.5)	8.0	4.0	3.3	NA	NA

Sample ID	Manganese	Mercury	Nitrogen, Nitrate (As N)	Radium-226	Radium-228	Sulfate	Zinc
CentralOCD 01 110210	380	ND(0.033)	9.4	0.4	1.1	470	24
CentralOCD 02 110210	430	0.035	6.3	0.04	ND(0.04)	790	96
CentralOCD 03 110210	370	ND(0.033)	7.2	0.5	ND(0.9)	470	25
CentralOCD 04 110210	320	ND(0.033)	4.7	0.8	ND(0.8)	600	23
Screening Levels							
NMED Soil Screening Levels	145000	49.9	1820000	NA	NA	NA	341000
Background	NA	ND(0.033)	2.2	1.5	1.1	18	NA

Notes:

- Analytes not shown on table were non-detect for all sample locations.
- Initial sampling of TPH, BTEX, and chlorides conducted in August 2010 showed chloride PQL exceedances.
- Per the permit, "if vadose zone sampling results show that the concentrations of TPH, BTEX, or chlorides exceed the higher of the PQL or the background soil concentrations.... The operator shall immediately collect and analyze ... samples for TPH, BTEX, chlorides, and the constituents listed in Subsections A and B of 20.6.2.3103 NMAC".
- The above mentioned sampling was conducted in November 2010; data from this event will be utilized as both the semiannual exceedance sampling and the 5-year vadose zone sampling since the analyte lists are the same.
- Per Hall's Analysis, the detection limit equals the PQL. Therefore, detections shown on the table above exceeds the PQL.
- Background soil concentrations obtained from Sample ID "Background" collected on 2/17/2010 by Western Refining.
- Background soil data was not validated by Trihydro.
- Yellow highlighting indicates exceedance of background value.
- NA = Data not available.
- ND(##) = non-detect (detection limit).
- Radium Results in pCi/g, all others mg/kg.
- NMED Soil Screening Levels = Industrial/Occupational Soil Screening Levels (mg/kg) (December 2009).
- PQL = Practical Quantitation Limit.
- TPH = Total Petroleum Hydrocarbons.
- BTEX = benzene, ethylbenzene, toluene, and xylenes.
- NMED Soil Screening Level for chromium VI used for chromium.

TABLE 3. NORTHEAST OIL CONSERVATION DIVISION LANDFARM ANALYTICAL SUMMARY
2010 LANDFARM CLOSURE SOIL SAMPLING
WESTERN REFINING SOUTHWEST, GALLUP REFINERY, GALLUP, NEW MEXICO

Date Collected	Sample ID	Analyte	Results	Screening Levels		
				Closure Standard per Form C-137 EZ	Closure Standard per Discharge Permit	NMED Soil Screening Levels
11/2/2010	NEOCD Closure 110210	Barium	300	NA	PQL/Background	224000
11/2/2010	NEOCD Closure 110210	Chloride	100	500	500	NA
11/2/2010	NEOCD Closure 110210	Chromium	15	NA	PQL/Background	2920
11/2/2010	NEOCD Closure 110210	Copper	3.6	NA	PQL/Background	45400
11/2/2010	NEOCD Closure 110210	Diesel Range Organics (DRO)	210	NA	PQL/Background	NA
11/2/2010	NEOCD Closure 110210	Fluoride	8.9	NA	PQL/Background	68100
11/2/2010	NEOCD Closure 110210	Iron	16000	NA	PQL/Background	795000
11/2/2010	NEOCD Closure 110210	Lead	8.4	NA	PQL/Background	800
11/2/2010	NEOCD Closure 110210	Manganese	460	NA	PQL/Background	145000
11/2/2010	NEOCD Closure 110210	Motor Oil Range Organics (MRO)	82	NA	PQL/Background	NA
11/2/2010	NEOCD Closure 110210	Nitrogen, Nitrate (As N)	14	NA	PQL/Background	1820000
11/2/2010	NEOCD Closure 110210	Petroleum Hydrocarbons, TR	90	2500	2500	NA
11/2/2010	NEOCD Closure 110210	Radium-226	0.5	NA	PQL/Background	NA
11/2/2010	NEOCD Closure 110210	Radium-228	1	NA	PQL/Background	NA
11/2/2010	NEOCD Closure 110210	Sulfate	670	NA	PQL/Background	NA
11/2/2010	NEOCD Closure 110210	Zinc	24	NA	PQL/Background	341000
11/2/2010	NEOCD Closure 110210	All Others	ND	NA	PQL/Background	NA
11/2/2010	NEOCD Closure 110210	Total BTEX	ND(0.1) ¹	50	50	NA
11/2/2010	NEOCD Closure 110210	Benzene	ND(0.05)	0.2	0.2	85.4
11/2/2010	NEOCD Closure 110210	DRO/GRO	215 ²	500	500	NA
11/2/2010	NEOCD Closure 110210					NA

Notes:

- ¹Highest Detection limit used.
- ²DRO result + GRO Detection Limit
- Form C-137 EZ = Registration /Final Closure Report for Small Landfarm.
- There are no exceedances of Form C-137 EZ screening standards
- Analytes not shown on table were non-detect for all sample locations.
- Per Hall's Analysis, the detection limit equals the PQL. Therefore, detections shown on the table above exceeds the PQL.
- Background soil concentrations obtained from Sample ID "Background" collected on 2/17/2010 by Western Refining
- Background soil data was not validated by Trihydro.
- Yellow highlighting indicates exceedance of background value.
- NA = Data not available.
- ND(##) = non-detect (detection limit).
- Radium Results in pCi/g, all others mg/kg.
- NMED Soil Screening Levels = Industrial/Occupational Soil Screening Levels (mg/kg) (December 2009).
- DRO = Diesel Range Organics.
- GRO = Gasoline Range Organics.
- PQL = Practical Quantitation Limit
- NMED = New Mexico Environment Department.

ATTACHMENT C
LABORATORY ANALYTICAL REPORT



COVER LETTER

Friday, December 10, 2010

Ed Riege
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833

FAX (505) 722-0210

RE: OCD Landfarms

Order No.: 1011126

Dear Ed Riege:

Hall Environmental Analysis Laboratory, Inc. received 13 sample(s) on 11/3/2010 for the analyses presented in the following report.

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

Reporting limits are determined by EPA methodology.

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

Sincerely,

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

Andy Freeman, Laboratory Manager

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



Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-01

Client Sample ID: CentralOCD 01 110210
Collection Date: 11/2/2010 10:15:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Surr: Decachlorobiphenyl	84.4	16.9-111		%REC	1	11/6/2010 8:54:28 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	2.6	1.5		mg/Kg	5	11/16/2010 3:41:56 AM
Chloride	720	30		mg/Kg	20	11/16/2010 3:59:21 AM
Nitrogen, Nitrate (As N)	9.4	1.5		mg/Kg	5	11/16/2010 3:41:56 AM
Sulfate	470	7.5		mg/Kg	5	11/16/2010 3:41:56 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:26:04 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 9:31:56 AM
Barium	330	1.0		mg/Kg	10	11/18/2010 10:05:45 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 9:31:56 AM
Chromium	16	1.5		mg/Kg	5	11/17/2010 9:31:56 AM
Copper	4.4	1.5		mg/Kg	5	11/17/2010 9:31:56 AM
Iron	15000	500		mg/Kg	500	11/18/2010 12:18:48 PM
Lead	6.3	1.3		mg/Kg	5	11/17/2010 9:31:56 AM
Manganese	380	1.0		mg/Kg	10	11/18/2010 10:05:45 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 9:31:56 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 9:31:56 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:05:45 AM
Zinc	24	13		mg/Kg	5	11/17/2010 9:31:56 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-01

Client Sample ID: CentralOCD 01 110210
Collection Date: 11/2/2010 10:15:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 12:50:55 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 12:50:55 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 12:50:55 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 12:50:55 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 12:50:55 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 12:50:55 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-01

Client Sample ID: CentralOCD 01 110210
Collection Date: 11/2/2010 10:15:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 12:50:55 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 12:50:55 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Surr: 2,4,6-Tribromophenol	79.3	32.2-125		%REC	1	11/11/2010 12:50:55 PM
Surr: 2-Fluorobiphenyl	86.9	29.8-137		%REC	1	11/11/2010 12:50:55 PM
Surr: 2-Fluorophenol	92.4	22.6-131		%REC	1	11/11/2010 12:50:55 PM
Surr: 4-Terphenyl-d14	82.2	23.8-110		%REC	1	11/11/2010 12:50:55 PM
Surr: Nitrobenzene-d5	103	29.5-130		%REC	1	11/11/2010 12:50:55 PM
Surr: Phenol-d5	98.8	25.5-127		%REC	1	11/11/2010 12:50:55 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 9:04:21 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 9:04:21 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 9:04:21 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-01

Client Sample ID: CentralOCD 01 110210
Collection Date: 11/2/2010 10:15:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 9:04:21 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 9:04:21 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 9:04:21 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 9:04:21 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 9:04:21 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 9:04:21 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 9:04:21 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM

Qualifiers:

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 E Estimated value
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 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-01

Client Sample ID: CentralOCD 01 110210
Collection Date: 11/2/2010 10:15:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
Surr: 1,2-Dichloroethane-d4	102	77.8-97.5	S	%REC	1	11/6/2010 9:04:21 PM
Surr: 4-Bromofluorobenzene	97.3	82.2-105		%REC	1	11/6/2010 9:04:21 PM
Surr: Dibromofluoromethane	103	63.7-133		%REC	1	11/6/2010 9:04:21 PM
Surr: Toluene-d8	95.3	87.2-105		%REC	1	11/6/2010 9:04:21 PM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-02

Client Sample ID: CentralOCD 02 110210
Collection Date: 11/2/2010 11:20:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Surr: Decachlorobiphenyl	97.6	16.9-111		%REC	1	11/6/2010 9:42:05 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	2.9	0.30		mg/Kg	1	11/16/2010 4:16:46 AM
Chloride	78	15		mg/Kg	10	11/16/2010 5:08:59 AM
Nitrogen, Nitrate (As N)	6.3	0.30		mg/Kg	1	11/16/2010 4:16:46 AM
Sulfate	790	15		mg/Kg	10	11/16/2010 5:08:59 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	0.035	0.033		mg/Kg	1	11/11/2010 1:27:50 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 9:58:30 AM
Barium	280	1.0		mg/Kg	10	11/18/2010 10:12:05 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 9:58:30 AM
Chromium	21	1.5		mg/Kg	5	11/17/2010 9:58:30 AM
Copper	22	1.5		mg/Kg	5	11/17/2010 9:58:30 AM
Iron	17000	500		mg/Kg	500	11/18/2010 12:21:50 PM
Lead	8.6	1.3		mg/Kg	5	11/17/2010 9:58:30 AM
Manganese	430	1.0		mg/Kg	10	11/18/2010 10:12:05 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 9:58:30 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 9:58:30 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:12:05 AM
Zinc	96	13		mg/Kg	5	11/17/2010 9:58:30 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-02

Client Sample ID: CentralOCD 02 110210
Collection Date: 11/2/2010 11:20:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 1:20:21 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 1:20:21 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 1:20:21 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 1:20:21 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 1:20:21 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 1:20:21 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-02

Client Sample ID: CentralOCD 02 110210
Collection Date: 11/2/2010 11:20:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 1:20:21 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 1:20:21 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Surr: 2,4,6-Tribromophenol	73.6	32.2-125		%REC	1	11/11/2010 1:20:21 PM
Surr: 2-Fluorobiphenyl	75.2	29.8-137		%REC	1	11/11/2010 1:20:21 PM
Surr: 2-Fluorophenol	77.3	22.6-131		%REC	1	11/11/2010 1:20:21 PM
Surr: 4-Terphenyl-d14	77.9	23.8-110		%REC	1	11/11/2010 1:20:21 PM
Surr: Nitrobenzene-d5	80.6	29.5-130		%REC	1	11/11/2010 1:20:21 PM
Surr: Phenol-d5	78.9	25.5-127		%REC	1	11/11/2010 1:20:21 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 9:32:38 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 9:32:38 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 9:32:38 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-02

Client Sample ID: CentralOCD 02 110210
Collection Date: 11/2/2010 11:20:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 9:32:38 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 9:32:38 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 9:32:38 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 9:32:38 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 9:32:38 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 9:32:38 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 9:32:38 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-02

Client Sample ID: CentralOCD 02 110210
Collection Date: 11/2/2010 11:20:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
Surr: 1,2-Dichloroethane-d4	100	77.8-97.5	S	%REC	1	11/6/2010 9:32:38 PM
Surr: 4-Bromofluorobenzene	74.6	82.2-105	S	%REC	1	11/6/2010 9:32:38 PM
Surr: Dibromofluoromethane	103	63.7-133		%REC	1	11/6/2010 9:32:38 PM
Surr: Toluene-d8	95.7	87.2-105		%REC	1	11/6/2010 9:32:38 PM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-03

Client Sample ID: CentralOCD 03 110210
Collection Date: 11/2/2010 11:45:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Surr: Decachlorobiphenyl	86.4	16.9-111		%REC	1	11/6/2010 12:01:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	6.0		mg/Kg	20	11/16/2010 5:26:24 AM
Chloride	210	30		mg/Kg	20	11/16/2010 5:26:24 AM
Nitrogen, Nitrate (As N)	7.2	6.0		mg/Kg	20	11/16/2010 5:26:24 AM
Sulfate	470	30		mg/Kg	20	11/16/2010 5:26:24 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:33:08 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 10:16:32 AM
Barium	210	0.50		mg/Kg	5	11/17/2010 10:16:32 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 10:16:32 AM
Chromium	15	1.5		mg/Kg	5	11/17/2010 10:16:32 AM
Copper	4.5	1.5		mg/Kg	5	11/17/2010 10:16:32 AM
Iron	14000	500		mg/Kg	500	11/18/2010 12:24:53 PM
Lead	5.2	1.3		mg/Kg	5	11/17/2010 10:16:32 AM
Manganese	370	1.0		mg/Kg	10	11/18/2010 10:20:12 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 10:16:32 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 10:16:32 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:20:12 AM
Zinc	25	13		mg/Kg	5	11/17/2010 10:16:32 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-03

Client Sample ID: CentralOCD 03 110210
Collection Date: 11/2/2010 11:45:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 2:49:08 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 2:49:08 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 2:49:08 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 2:49:08 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 2:49:08 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 2:49:08 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-03

Client Sample ID: CentralOCD 03 110210
Collection Date: 11/2/2010 11:45:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 2:49:08 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 2:49:08 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Surr: 2,4,6-Tribromophenol	75.2	32.2-125		%REC	1	11/11/2010 2:49:08 PM
Surr: 2-Fluorobiphenyl	71.4	29.8-137		%REC	1	11/11/2010 2:49:08 PM
Surr: 2-Fluorophenol	73.9	22.6-131		%REC	1	11/11/2010 2:49:08 PM
Surr: 4-Terphenyl-d14	73.2	23.8-110		%REC	1	11/11/2010 2:49:08 PM
Surr: Nitrobenzene-d5	79.1	29.5-130		%REC	1	11/11/2010 2:49:08 PM
Surr: Phenol-d5	74.9	25.5-127		%REC	1	11/11/2010 2:49:08 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 10:01:01 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 10:01:01 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 10:01:01 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-03

Client Sample ID: CentralOCD 03 110210
Collection Date: 11/2/2010 11:45:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 10:01:01 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 10:01:01 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 10:01:01 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 10:01:01 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 10:01:01 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 10:01:01 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 10:01:01 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-03

Client Sample ID: CentralOCD 03 1102 10
Collection Date: 11/2/2010 11:45:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
Surr: 1,2-Dichloroethane-d4	93.9	77.8-97.5		%REC	1	11/6/2010 10:01:01 PM
Surr: 4-Bromofluorobenzene	93.7	82.2-105		%REC	1	11/6/2010 10:01:01 PM
Surr: Dibromofluoromethane	94.9	63.7-133		%REC	1	11/6/2010 10:01:01 PM
Surr: Toluene-d8	99.7	87.2-105		%REC	1	11/6/2010 10:01:01 PM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-04

Client Sample ID: Central OCD 04 110210
Collection Date: 11/2/2010 12:10:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Surr: Decachlorobiphenyl	87.6	16.9-111		%REC	1	11/6/2010 12:48:24 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	6.6	3.0		mg/Kg	10	11/16/2010 5:43:48 AM
Chloride	380	15		mg/Kg	10	11/16/2010 5:43:48 AM
Nitrogen, Nitrate (As N)	4.7	3.0		mg/Kg	10	11/16/2010 5:43:48 AM
Sulfate	600	15		mg/Kg	10	11/16/2010 5:43:48 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:34:55 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 10:24:18 AM
Barium	380	1.0		mg/Kg	10	11/18/2010 10:35:34 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 10:24:18 AM
Chromium	16	1.5		mg/Kg	5	11/17/2010 10:24:18 AM
Copper	4.3	1.5		mg/Kg	5	11/17/2010 10:24:18 AM
Iron	16000	500		mg/Kg	500	11/18/2010 12:27:47 PM
Lead	5.2	1.3		mg/Kg	5	11/17/2010 10:24:18 AM
Manganese	320	1.0		mg/Kg	10	11/18/2010 10:35:34 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 10:24:18 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 10:24:18 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:35:34 AM
Zinc	23	13		mg/Kg	5	11/17/2010 10:24:18 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-04

Client Sample ID: Central OCD 04 110210
Collection Date: 11/2/2010 12:10:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 3:18:50 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 3:18:50 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 3:18:50 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 3:18:50 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 3:18:50 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 3:18:50 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-04

Client Sample ID: Central OCD 04 110210
Collection Date: 11/2/2010 12:10:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 3:18:50 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 3:18:50 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Surr: 2,4,6-Tribromophenol	80.6	32.2-125		%REC	1	11/11/2010 3:18:50 PM
Surr: 2-Fluorobiphenyl	79.6	29.8-137		%REC	1	11/11/2010 3:18:50 PM
Surr: 2-Fluorophenol	84.7	22.6-131		%REC	1	11/11/2010 3:18:50 PM
Surr: 4-Terphenyl-d14	86.3	23.8-110		%REC	1	11/11/2010 3:18:50 PM
Surr: Nitrobenzene-d5	86.9	29.5-130		%REC	1	11/11/2010 3:18:50 PM
Surr: Phenol-d5	89.6	25.5-127		%REC	1	11/11/2010 3:18:50 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 10:29:26 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 10:29:26 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 10:29:26 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-04

Client Sample ID: Central OCD 04 110210
Collection Date: 11/2/2010 12:10:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 10:29:26 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 10:29:26 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 10:29:26 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 10:29:26 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 10:29:26 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 10:29:26 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 10:29:26 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-04

Client Sample ID: Central OCD 04 110210
Collection Date: 11/2/2010 12:10:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
Surr: 1,2-Dichloroethane-d4	91.5	77.8-97.5		%REC	1	11/6/2010 10:29:26 PM
Surr: 4-Bromofluorobenzene	94.0	82.2-105		%REC	1	11/6/2010 10:29:26 PM
Surr: Dibromofluoromethane	95.6	63.7-133		%REC	1	11/6/2010 10:29:26 PM
Surr: Toluene-d8	93.3	87.2-105		%REC	1	11/6/2010 10:29:26 PM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-05

Client Sample ID: NEOCD 01 110210
Collection Date: 11/2/2010 1:15:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Surr: Decachlorobiphenyl	85.2	16.9-111		%REC	1	11/6/2010 1:35:38 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	6.0		mg/Kg	20	11/16/2010 6:36:02 AM
Chloride	100	30		mg/Kg	20	11/16/2010 6:36:02 AM
Nitrogen, Nitrate (As N)	ND	6.0		mg/Kg	20	11/16/2010 6:36:02 AM
Sulfate	230	30		mg/Kg	20	11/16/2010 6:36:02 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:36:44 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 10:32:06 AM
Barium	250	0.50		mg/Kg	5	11/17/2010 10:32:06 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 10:32:06 AM
Chromium	14	1.5		mg/Kg	5	11/17/2010 10:32:06 AM
Copper	3.2	1.5		mg/Kg	5	11/17/2010 10:32:06 AM
Iron	17000	500		mg/Kg	500	11/18/2010 12:46:15 PM
Lead	7.0	1.3		mg/Kg	5	11/17/2010 10:32:06 AM
Manganese	380	1.0		mg/Kg	10	11/18/2010 10:42:02 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 10:32:06 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 10:32:06 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:42:02 AM
Zinc	21	13		mg/Kg	5	11/17/2010 10:32:06 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-05

Client Sample ID: NEOCD 01 110210
Collection Date: 11/2/2010 1:15:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 3:48:28 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 3:48:28 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 3:48:28 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 3:48:28 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 3:48:28 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 3:48:28 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-05

Client Sample ID: NEOCD 01 110210
Collection Date: 11/2/2010 1:15:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 3:48:28 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 3:48:28 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Surr: 2,4,6-Tribromophenol	61.8	32.2-125		%REC	1	11/11/2010 3:48:28 PM
Surr: 2-Fluorobiphenyl	59.9	29.8-137		%REC	1	11/11/2010 3:48:28 PM
Surr: 2-Fluorophenol	62.0	22.6-131		%REC	1	11/11/2010 3:48:28 PM
Surr: 4-Terphenyl-d14	67.0	23.8-110		%REC	1	11/11/2010 3:48:28 PM
Surr: Nitrobenzene-d5	66.7	29.5-130		%REC	1	11/11/2010 3:48:28 PM
Surr: Phenol-d5	61.9	25.5-127		%REC	1	11/11/2010 3:48:28 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 10:57:36 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 10:57:36 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 10:57:36 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-05

Client Sample ID: NEOCD 01 110210
 Collection Date: 11/2/2010 1:15:00 PM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 10:57:36 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 10:57:36 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 10:57:36 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 10:57:36 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 10:57:36 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 10:57:36 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 10:57:36 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-05

Client Sample ID: NEOCD 01 110210
Collection Date: 11/2/2010 1:15:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
Surr: 1,2-Dichloroethane-d4	94.2	77.8-97.5		%REC	1	11/6/2010 10:57:36 PM
Surr: 4-Bromofluorobenzene	93.9	82.2-105		%REC	1	11/6/2010 10:57:36 PM
Surr: Dibromofluoromethane	92.7	63.7-133		%REC	1	11/6/2010 10:57:36 PM
Surr: Toluene-d8	97.9	87.2-105		%REC	1	11/6/2010 10:57:36 PM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-06

Client Sample ID: NEOCD 02 110210
Collection Date: 11/2/2010 1:40:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Surr: Decachlorobiphenyl	101	16.9-111		%REC	1	11/6/2010 2:21:13 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	6.0		mg/Kg	20	11/16/2010 6:53:26 AM
Chloride	72	30		mg/Kg	20	11/16/2010 6:53:26 AM
Nitrogen, Nitrate (As N)	17	6.0		mg/Kg	20	11/16/2010 6:53:26 AM
Sulfate	270	30		mg/Kg	20	11/16/2010 6:53:26 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:38:32 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 10:52:22 AM
Barium	330	1.0		mg/Kg	10	11/18/2010 10:48:43 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 10:52:22 AM
Chromium	13	1.5		mg/Kg	5	11/17/2010 10:52:22 AM
Copper	2.7	1.5		mg/Kg	5	11/17/2010 10:52:22 AM
Iron	14000	500		mg/Kg	500	11/18/2010 12:49:07 PM
Lead	5.9	1.3		mg/Kg	5	11/17/2010 10:52:22 AM
Manganese	380	1.0		mg/Kg	10	11/18/2010 10:48:43 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 10:52:22 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 10:52:22 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:48:43 AM
Zinc	24	13		mg/Kg	5	11/17/2010 10:52:22 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-06

Client Sample ID: NEOCD 02 110210
 Collection Date: 11/2/2010 1:40:00 PM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 4:18:10 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 4:18:10 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 4:18:10 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 4:18:10 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 4:18:10 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 4:18:10 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-06

Client Sample ID: NEOCD 02 110210
Collection Date: 11/2/2010 1:40:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 4:18:10 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 4:18:10 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Surr: 2,4,6-Tribromophenol	86.1	32.2-125		%REC	1	11/11/2010 4:18:10 PM
Surr: 2-Fluorobiphenyl	89.0	29.8-137		%REC	1	11/11/2010 4:18:10 PM
Surr: 2-Fluorophenol	91.3	22.6-131		%REC	1	11/11/2010 4:18:10 PM
Surr: 4-Terphenyl-d14	83.1	23.8-110		%REC	1	11/11/2010 4:18:10 PM
Surr: Nitrobenzene-d5	96.7	29.5-130		%REC	1	11/11/2010 4:18:10 PM
Surr: Phenol-d5	95.6	25.5-127		%REC	1	11/11/2010 4:18:10 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 11:25:46 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 11:25:46 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 11:25:46 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-06

Client Sample ID: NEOCD 02 110210
Collection Date: 11/2/2010 1:40:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 11:25:46 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 11:25:46 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 11:25:46 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 11:25:46 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 11:25:46 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 11:25:46 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 11:25:46 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-06

Client Sample ID: NEOCD 02 110210
Collection Date: 11/2/2010 1:40:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
Surr: 1,2-Dichloroethane-d4	94.7	77.8-97.5		%REC	1	11/6/2010 11:25:46 PM
Surr: 4-Bromofluorobenzene	94.0	82.2-105		%REC	1	11/6/2010 11:25:46 PM
Surr: Dibromofluoromethane	96.1	63.7-133		%REC	1	11/6/2010 11:25:46 PM
Surr: Toluene-d8	97.9	87.2-105		%REC	1	11/6/2010 11:25:46 PM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-07

Client Sample ID: NEOCD 03 1102010
Collection Date: 11/2/2010 2:00:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Surr: Decachlorobiphenyl	98.8	16.9-111		%REC	1	11/6/2010 5:31:43 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	6.0		mg/Kg	20	11/16/2010 7:10:51 AM
Chloride	120	30		mg/Kg	20	11/16/2010 7:10:51 AM
Nitrogen, Nitrate (As N)	6.8	6.0		mg/Kg	20	11/16/2010 7:10:51 AM
Sulfate	660	30		mg/Kg	20	11/16/2010 7:10:51 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:44:01 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGE
Arsenic	ND	13		mg/Kg	5	11/17/2010 11:00:20 AM
Barium	320	1.0		mg/Kg	10	11/18/2010 10:56:56 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 11:00:20 AM
Chromium	12	1.5		mg/Kg	5	11/17/2010 11:00:20 AM
Copper	2.1	1.5		mg/Kg	5	11/17/2010 11:00:20 AM
Iron	13000	500		mg/Kg	500	11/18/2010 12:52:12 PM
Lead	5.9	1.3		mg/Kg	5	11/17/2010 11:00:20 AM
Manganese	390	1.0		mg/Kg	10	11/18/2010 10:56:56 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 11:00:20 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 11:00:20 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:56:56 AM
Zinc	17	13		mg/Kg	5	11/17/2010 11:00:20 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-07

Client Sample ID: NEOCD 03 1102010
 Collection Date: 11/2/2010 2:00:00 PM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 4:47:49 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 4:47:49 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 4:47:49 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 4:47:49 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 4:47:49 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 4:47:49 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-07

Client Sample ID: NEOCD 03 1102010
Collection Date: 11/2/2010 2:00:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 4:47:49 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 4:47:49 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Surr: 2,4,6-Tribromophenol	92.4	32.2-125		%REC	1	11/11/2010 4:47:49 PM
Surr: 2-Fluorobiphenyl	101	29.8-137		%REC	1	11/11/2010 4:47:49 PM
Surr: 2-Fluorophenol	104	22.6-131		%REC	1	11/11/2010 4:47:49 PM
Surr: 4-Terphenyl-d14	91.5	23.8-110		%REC	1	11/11/2010 4:47:49 PM
Surr: Nitrobenzene-d5	112	29.5-130		%REC	1	11/11/2010 4:47:49 PM
Surr: Phenol-d5	113	25.5-127		%REC	1	11/11/2010 4:47:49 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 11:53:58 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 11:53:58 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 11:53:58 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-07

Client Sample ID: NEOCD 03 1102010
Collection Date: 11/2/2010 2:00:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 11:53:58 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 11:53:58 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 11:53:58 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 11:53:58 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 11:53:58 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 11:53:58 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 11:53:58 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-07

Client Sample ID: NEOCD 03 1102010
Collection Date: 11/2/2010 2:00:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
Surr: 1,2-Dichloroethane-d4	96.0	77.8-97.5		%REC	1	11/6/2010 11:53:58 PM
Surr: 4-Bromofluorobenzene	95.7	82.2-105		%REC	1	11/6/2010 11:53:58 PM
Surr: Dibromofluoromethane	97.6	63.7-133		%REC	1	11/6/2010 11:53:58 PM
Surr: Toluene-d8	97.0	87.2-105		%REC	1	11/6/2010 11:53:58 PM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-08

Client Sample ID: NEOCD 04 110210
Collection Date: 11/2/2010 2:30:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Surr: Decachlorobiphenyl	99.2	16.9-111		%REC	1	11/6/2010 6:17:12 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	6.0		mg/Kg	20	11/16/2010 7:28:16 AM
Chloride	60	30		mg/Kg	20	11/16/2010 7:28:16 AM
Nitrogen, Nitrate (As N)	61	6.0		mg/Kg	20	11/16/2010 7:28:16 AM
Sulfate	390	30		mg/Kg	20	11/16/2010 7:28:16 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:45:50 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 11:08:08 AM
Barium	310	2.0		mg/Kg	20	11/18/2010 12:55:03 PM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 11:08:08 AM
Chromium	16	1.5		mg/Kg	5	11/17/2010 11:08:08 AM
Copper	3.6	1.5		mg/Kg	5	11/17/2010 11:08:08 AM
Iron	17000	500		mg/Kg	500	11/18/2010 1:25:15 PM
Lead	6.9	1.3		mg/Kg	5	11/17/2010 11:08:08 AM
Manganese	420	2.0		mg/Kg	20	11/18/2010 12:55:03 PM
Selenium	ND	13		mg/Kg	5	11/17/2010 11:08:08 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 11:08:08 AM
Uranium	ND	100		mg/Kg	20	11/18/2010 12:55:03 PM
Zinc	23	13		mg/Kg	5	11/17/2010 11:08:08 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-08

Client Sample ID: NEOCD 04 110210
Collection Date: 11/2/2010 2:30:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 5:17:19 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 5:17:19 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 5:17:19 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 5:17:19 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 5:17:19 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 5:17:19 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-08

Client Sample ID: NEOCD 04 110210
Collection Date: 11/2/2010 2:30:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 5:17:19 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 5:17:19 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Surr: 2,4,6-Tribromophenol	66.7	32.2-125		%REC	1	11/11/2010 5:17:19 PM
Surr: 2-Fluorobiphenyl	76.1	29.8-137		%REC	1	11/11/2010 5:17:19 PM
Surr: 2-Fluorophenol	76.2	22.6-131		%REC	1	11/11/2010 5:17:19 PM
Surr: 4-Terphenyl-d14	70.8	23.8-110		%REC	1	11/11/2010 5:17:19 PM
Surr: Nitrobenzene-d5	84.2	29.5-130		%REC	1	11/11/2010 5:17:19 PM
Surr: Phenol-d5	79.0	25.5-127		%REC	1	11/11/2010 5:17:19 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Toluene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Naphthalene	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/7/2010 12:22:00 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/7/2010 12:22:00 AM
Acetone	ND	0.75		mg/Kg	1	11/7/2010 12:22:00 AM
Bromobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-08

Client Sample ID: NEOCD 04 110210
Collection Date: 11/2/2010 2:30:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Bromoform	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Bromomethane	ND	0.15		mg/Kg	1	11/7/2010 12:22:00 AM
2-Butanone	ND	0.50		mg/Kg	1	11/7/2010 12:22:00 AM
Carbon disulfide	ND	0.50		mg/Kg	1	11/7/2010 12:22:00 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
Chlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Chloroethane	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
Chloroform	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Chloromethane	ND	0.15		mg/Kg	1	11/7/2010 12:22:00 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Dibromomethane	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
2-Hexanone	ND	0.50		mg/Kg	1	11/7/2010 12:22:00 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/7/2010 12:22:00 AM
Methylene chloride	ND	0.15		mg/Kg	1	11/7/2010 12:22:00 AM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Styrene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-08

Client Sample ID: NEOCD 04 110210
 Collection Date: 11/2/2010 2:30:00 PM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
Vinyl chloride	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
Surr: 1,2-Dichloroethane-d4	98.1	77.8-97.5	S	%REC	1	11/7/2010 12:22:00 AM
Surr: 4-Bromofluorobenzene	95.2	82.2-105		%REC	1	11/7/2010 12:22:00 AM
Surr: Dibromofluoromethane	99.9	63.7-133		%REC	1	11/7/2010 12:22:00 AM
Surr: Toluene-d8	103	87.2-105		%REC	1	11/7/2010 12:22:00 AM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-09

Client Sample ID: BD 1 110210
Collection Date: 11/2/2010
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Surr: Decachlorobiphenyl	86.4	16.9-111		%REC	1	11/6/2010 7:04:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	5.4	3.0		mg/Kg	10	11/16/2010 7:45:41 AM
Chloride	390	15		mg/Kg	10	11/16/2010 7:45:41 AM
Nitrogen, Nitrate (As N)	4.7	3.0		mg/Kg	10	11/16/2010 7:45:41 AM
Sulfate	650	15		mg/Kg	10	11/16/2010 7:45:41 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:47:39 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 11:17:36 AM
Barium	340	1.0		mg/Kg	10	11/18/2010 11:18:44 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 11:17:36 AM
Chromium	16	1.5		mg/Kg	5	11/17/2010 11:17:36 AM
Copper	4.0	1.5		mg/Kg	5	11/17/2010 11:17:36 AM
Iron	15000	500		mg/Kg	500	11/18/2010 1:00:36 PM
Lead	4.9	1.3		mg/Kg	5	11/17/2010 11:17:36 AM
Manganese	350	1.0		mg/Kg	10	11/18/2010 11:18:44 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 11:17:36 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 11:17:36 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 11:18:44 AM
Zinc	23	13		mg/Kg	5	11/17/2010 11:17:36 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-09

Client Sample ID: BD 1 110210
Collection Date: 11/2/2010
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 5:46:53 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 5:46:53 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 5:46:53 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 5:46:53 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 5:46:53 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 5:46:53 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-09

Client Sample ID: BD 1110210
Collection Date: 11/2/2010
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 5:46:53 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 5:46:53 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Surr: 2,4,6-Tribromophenol	58.3	32.2-125		%REC	1	11/11/2010 5:46:53 PM
Surr: 2-Fluorobiphenyl	57.2	29.8-137		%REC	1	11/11/2010 5:46:53 PM
Surr: 2-Fluorophenol	58.1	22.6-131		%REC	1	11/11/2010 5:46:53 PM
Surr: 4-Terphenyl-d14	55.2	23.8-110		%REC	1	11/11/2010 5:46:53 PM
Surr: Nitrobenzene-d5	67.0	29.5-130		%REC	1	11/11/2010 5:46:53 PM
Surr: Phenol-d5	61.3	25.5-127		%REC	1	11/11/2010 5:46:53 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Toluene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Naphthalene	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/7/2010 12:50:17 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/7/2010 12:50:17 AM
Acetone	ND	0.75		mg/Kg	1	11/7/2010 12:50:17 AM
Bromobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-09

Client Sample ID: BD 1 110210
Collection Date: 11/2/2010
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Bromoform	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Bromomethane	ND	0.15		mg/Kg	1	11/7/2010 12:50:17 AM
2-Butanone	ND	0.50		mg/Kg	1	11/7/2010 12:50:17 AM
Carbon disulfide	ND	0.50		mg/Kg	1	11/7/2010 12:50:17 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
Chlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Chloroethane	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
Chloroform	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Chloromethane	ND	0.15		mg/Kg	1	11/7/2010 12:50:17 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Dibromomethane	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
2-Hexanone	ND	0.50		mg/Kg	1	11/7/2010 12:50:17 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/7/2010 12:50:17 AM
Methylene chloride	ND	0.15		mg/Kg	1	11/7/2010 12:50:17 AM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Styrene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-09

Client Sample ID: BD 1 110210
 Collection Date: 11/2/2010
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
Vinyl chloride	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Xylenes, Total	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
Surr: 1,2-Dichloroethane-d4	97.4	77.8-97.5		%REC	1	11/7/2010 12:50:17 AM
Surr: 4-Bromofluorobenzene	94.9	82.2-105		%REC	1	11/7/2010 12:50:17 AM
Surr: Dibromofluoromethane	98.1	63.7-133		%REC	1	11/7/2010 12:50:17 AM
Surr: Toluene-d8	97.0	87.2-105		%REC	1	11/7/2010 12:50:17 AM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-10

Client Sample ID: FB 1100210
Collection Date: 11/2/2010 2:55:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Toluene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Ethylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Naphthalene	ND	2.0		µg/L	1	11/4/2010 4:27:43 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/4/2010 4:27:43 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/4/2010 4:27:43 AM
Acetone	ND	10		µg/L	1	11/4/2010 4:27:43 AM
Bromobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Bromoform	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Bromomethane	ND	3.0		µg/L	1	11/4/2010 4:27:43 AM
2-Butanone	ND	10		µg/L	1	11/4/2010 4:27:43 AM
Carbon disulfide	ND	10		µg/L	1	11/4/2010 4:27:43 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Chlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Chloroethane	ND	2.0		µg/L	1	11/4/2010 4:27:43 AM
Chloroform	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Chloromethane	ND	3.0		µg/L	1	11/4/2010 4:27:43 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
cis-1,2-DCE	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/4/2010 4:27:43 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Dibromomethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/4/2010 4:27:43 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-10

Client Sample ID: FB 1100210
Collection Date: 11/2/2010 2:55:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
2-Hexanone	ND	10		µg/L	1	11/4/2010 4:27:43 AM
Isopropylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/4/2010 4:27:43 AM
Methylene Chloride	ND	3.0		µg/L	1	11/4/2010 4:27:43 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
n-Propylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
sec-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Styrene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
tert-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/4/2010 4:27:43 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/4/2010 4:27:43 AM
Vinyl chloride	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Xylenes, Total	ND	1.5		µg/L	1	11/4/2010 4:27:43 AM
Surr: 1,2-Dichloroethane-d4	102	77.7-113		%REC	1	11/4/2010 4:27:43 AM
Surr: 4-Bromofluorobenzene	105	76.4-106		%REC	1	11/4/2010 4:27:43 AM
Surr: Dibromofluoromethane	111	91.6-125		%REC	1	11/4/2010 4:27:43 AM
Surr: Toluene-d8	94.4	92.3-107		%REC	1	11/4/2010 4:27:43 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB 110210

Lab Order: 1011126

Collection Date: 11/2/2010 2:50:00 PM

Project: OCD Landfarms

Date Received: 11/3/2010

Lab ID: 1011126-11

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Toluene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Ethylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Naphthalene	ND	2.0		µg/L	1	11/4/2010 4:53:47 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/4/2010 4:53:47 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/4/2010 4:53:47 AM
Acetone	ND	10		µg/L	1	11/4/2010 4:53:47 AM
Bromobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Bromoform	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Bromomethane	ND	3.0		µg/L	1	11/4/2010 4:53:47 AM
2-Butanone	ND	10		µg/L	1	11/4/2010 4:53:47 AM
Carbon disulfide	ND	10		µg/L	1	11/4/2010 4:53:47 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Chlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Chloroethane	ND	2.0		µg/L	1	11/4/2010 4:53:47 AM
Chloroform	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Chloromethane	ND	3.0		µg/L	1	11/4/2010 4:53:47 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
cis-1,2-DCE	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/4/2010 4:53:47 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Dibromomethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/4/2010 4:53:47 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-11

Client Sample ID: EB 110210
 Collection Date: 11/2/2010 2:50:00 PM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
2-Hexanone	ND	10		µg/L	1	11/4/2010 4:53:47 AM
Isopropylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/4/2010 4:53:47 AM
Methylene Chloride	ND	3.0		µg/L	1	11/4/2010 4:53:47 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
n-Propylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
sec-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Styrene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
tert-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/4/2010 4:53:47 AM
Tetrachloroethane (PCE)	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/4/2010 4:53:47 AM
Vinyl chloride	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Xylenes, Total	ND	1.5		µg/L	1	11/4/2010 4:53:47 AM
Surr: 1,2-Dichloroethane-d4	105	77.7-113		%REC	1	11/4/2010 4:53:47 AM
Surr: 4-Bromofluorobenzene	109	76.4-106	S	%REC	1	11/4/2010 4:53:47 AM
Surr: Dibromofluoromethane	109	91.6-125		%REC	1	11/4/2010 4:53:47 AM
Surr: Toluene-d8	97.3	92.3-107		%REC	1	11/4/2010 4:53:47 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-12

Client Sample ID: NEOCD Closure 110210
Collection Date: 11/2/2010 2:40:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Aroclor 1221	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Aroclor 1232	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Aroclor 1242	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Aroclor 1248	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Aroclor 1254	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Aroclor 1260	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Surr: Decachlorobiphenyl	82.0	16.9-111		%REC	1	11/6/2010 7:51:05 PM
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	210	10		mg/Kg	1	11/6/2010 12:28:03 PM
Motor Oil Range Organics (MRO)	82	50		mg/Kg	1	11/6/2010 12:28:03 PM
Surr: DNOP	114	61.7-135		%REC	1	11/6/2010 12:28:03 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/10/2010 10:04:09 PM
Surr: BFB	105	93.1-120		%REC	1	11/10/2010 10:04:09 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	8.9	6.0		mg/Kg	20	11/16/2010 8:03:06 AM
Chloride	100	30		mg/Kg	20	11/16/2010 8:03:06 AM
Nitrogen, Nitrate (As N)	14	6.0		mg/Kg	20	11/16/2010 8:03:06 AM
Sulfate	670	30		mg/Kg	20	11/16/2010 8:03:06 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:49:29 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGE
Arsenic	ND	13		mg/Kg	5	11/17/2010 11:25:20 AM
Barium	300	1.0		mg/Kg	10	11/18/2010 11:26:53 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 11:25:20 AM
Chromium	15	1.5		mg/Kg	5	11/17/2010 11:25:20 AM
Copper	3.6	1.5		mg/Kg	5	11/17/2010 11:25:20 AM
Iron	16000	500		mg/Kg	500	11/18/2010 1:03:26 PM
Lead	8.4	1.3		mg/Kg	5	11/17/2010 11:25:20 AM
Manganese	460	1.0		mg/Kg	10	11/18/2010 11:26:53 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 11:25:20 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 11:25:20 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 11:26:53 AM
Zinc	24	13		mg/Kg	5	11/17/2010 11:25:20 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-12

Client Sample ID: NEOCD Closure 110210
Collection Date: 11/2/2010 2:40:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 6:16:23 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 6:16:23 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 6:16:23 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 6:16:23 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 6:16:23 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 6:16:23 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-12

Client Sample ID: NEOCD Closure 110210
Collection Date: 11/2/2010 2:40:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 6:16:23 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 6:16:23 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Surr: 2,4,6-Tribromophenol	78.1	32.2-125		%REC	1	11/11/2010 6:16:23 PM
Surr: 2-Fluorobiphenyl	82.4	29.8-137		%REC	1	11/11/2010 6:16:23 PM
Surr: 2-Fluorophenol	86.2	22.6-131		%REC	1	11/11/2010 6:16:23 PM
Surr: 4-Terphenyl-d14	90.2	23.8-110		%REC	1	11/11/2010 6:16:23 PM
Surr: Nitrobenzene-d5	94.0	29.5-130		%REC	1	11/11/2010 6:16:23 PM
Surr: Phenol-d5	97.8	25.5-127		%REC	1	11/11/2010 6:16:23 PM

EPA METHOD 8260B: VOLATILES

Analyst: DAM

Benzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Toluene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-12

Client Sample ID: NEOCD Closure 110210
Collection Date: 11/2/2010 2:40:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Naphthalene	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/7/2010 1:18:38 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/7/2010 1:18:38 AM
Acetone	ND	0.75		mg/Kg	1	11/7/2010 1:18:38 AM
Bromobenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Bromoform	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Bromomethane	ND	0.15		mg/Kg	1	11/7/2010 1:18:38 AM
2-Butanone	ND	0.50		mg/Kg	1	11/7/2010 1:18:38 AM
Carbon disulfide	ND	0.50		mg/Kg	1	11/7/2010 1:18:38 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
Chlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Chloroethane	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
Chloroform	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Chloromethane	ND	0.15		mg/Kg	1	11/7/2010 1:18:38 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Dibromomethane	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
2-Hexanone	ND	0.50		mg/Kg	1	11/7/2010 1:18:38 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/7/2010 1:18:38 AM
Methylene chloride	ND	0.15		mg/Kg	1	11/7/2010 1:18:38 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT:	Western Refining Southwest, Gallup	Client Sample ID:	NEOCD Closure 110210
Lab Order:	1011126	Collection Date:	11/2/2010 2:40:00 PM
Project:	OCD Landfarms	Date Received:	11/3/2010
Lab ID:	1011126-12	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Styrene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
Vinyl chloride	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Xylenes, Total	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
Surr: 1,2-Dichloroethane-d4	93.5	77.8-97.5		%REC	1	11/7/2010 1:18:38 AM
Surr: 4-Bromofluorobenzene	94.2	82.2-105		%REC	1	11/7/2010 1:18:38 AM
Surr: Dibromofluoromethane	98.1	63.7-133		%REC	1	11/7/2010 1:18:38 AM
Surr: Toluene-d8	96.1	87.2-105		%REC	1	11/7/2010 1:18:38 AM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	90	20		mg/Kg	1	11/5/2010

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-13

Client Sample ID: Trip Blank
 Collection Date:
 Date Received: 11/3/2010
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Toluene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Ethylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Naphthalene	ND	2.0		µg/L	1	11/4/2010 5:19:50 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/4/2010 5:19:50 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/4/2010 5:19:50 AM
Acetone	ND	10		µg/L	1	11/4/2010 5:19:50 AM
Bromobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Bromoform	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Bromomethane	ND	3.0		µg/L	1	11/4/2010 5:19:50 AM
2-Butanone	ND	10		µg/L	1	11/4/2010 5:19:50 AM
Carbon disulfide	ND	10		µg/L	1	11/4/2010 5:19:50 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Chlorobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Chloroethane	ND	2.0		µg/L	1	11/4/2010 5:19:50 AM
Chloroform	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Chloromethane	ND	3.0		µg/L	1	11/4/2010 5:19:50 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
cis-1,2-DCE	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/4/2010 5:19:50 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Dibromomethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/4/2010 5:19:50 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-13

Client Sample ID: Trip Blank
Collection Date:
Date Received: 11/3/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
2-Hexanone	ND	10		µg/L	1	11/4/2010 5:19:50 AM
Isopropylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/4/2010 5:19:50 AM
Methylene Chloride	ND	3.0		µg/L	1	11/4/2010 5:19:50 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
n-Propylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
sec-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Styrene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
tert-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/4/2010 5:19:50 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/4/2010 5:19:50 AM
Vinyl chloride	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Xylenes, Total	ND	1.5		µg/L	1	11/4/2010 5:19:50 AM
Surr: 1,2-Dichloroethane-d4	108	77.7-113		%REC	1	11/4/2010 5:19:50 AM
Surr: 4-Bromofluorobenzene	102	76.4-106		%REC	1	11/4/2010 5:19:50 AM
Surr: Dibromofluoromethane	113	91.6-125		%REC	1	11/4/2010 5:19:50 AM
Surr: Toluene-d8	97.2	92.3-107		%REC	1	11/4/2010 5:19:50 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-001
Client Sample ID 1011126-01C, CentralOCD 01 110210

Report Date: 12/08/10
Collection Date: 11/02/10 10:15
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 14:50 / kjp
RADIONUCLIDES							
Radium 226	0.4	pCi/g-dry			E903.0		12/08/10 12:18 / eli-ca
Radium 226 precision (±)	0.1	pCi/g-dry			E903.0		12/08/10 12:18 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry			E903.0		12/08/10 12:18 / eli-ca
Radium 228	1.1	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.5	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 MDC	0.8	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-002
Client Sample ID 1011126-02C, Central OCD 02 110210

Report Date: 12/08/10
Collection Date: 11/02/10 11:20
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 14:52 / kjp
RADIONUCLIDES							
Radium 226	0.04	pCi/g-dry			E903.0		12/06/10 12:18 / eli-ca
Radium 226 precision (±)	0.007	pCi/g-dry			E903.0		12/06/10 12:18 / eli-ca
Radium 226 MDC	0.006	pCi/g-dry			E903.0		12/06/10 12:18 / eli-ca
Radium 228	0.04	pCi/g-dry	U		RA-05		11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.03	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 MDC	0.04	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-003
Client Sample ID 1011126-03C, CentralOCD 03 110210

Report Date: 12/08/10
Collection Date: 11/02/10 11:45
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:05 / kjp
RADIONUCLIDES							
Radium 226	0.5	pCi/g-dry				E903.0	12/08/10 12:18 / eli-ca
Radium 226 precision (±)	0.1	pCi/g-dry				E903.0	12/08/10 12:18 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry				E903.0	12/08/10 12:18 / eli-ca
Radium 228	0.9	pCi/g-dry	U			RA-05	11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.6	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca
Radium 228 MDC	0.9	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-004
Client Sample ID: 1011126-04C, CentralOCD 04 110210

Report Date: 12/08/10
Collection Date: 11/02/10 12:10
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:07 / kjp
RADIONUCLIDES							
Radium 226	0.8	pCi/g-dry			E903.0		12/06/10 12:18 / eli-ca
Radium 226 precision (±)	0.1	pCi/g-dry			E903.0		12/06/10 12:18 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry			E903.0		12/06/10 12:18 / eli-ca
Radium 228	0.8	pCi/g-dry	U		RA-05		11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.5	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 MDC	0.8	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-005
Client Sample ID 1011126-05C, NEOCD 01 110210

Report Date: 12/08/10
Collection Date: 11/02/10 13:15
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:08 / kjp
RADIONUCLIDES							
Radium 226	0.8	pCi/g-dry			E903.0		12/06/10 12:18 / eli-ca
Radium 226 precision (±)	0.2	pCi/g-dry			E903.0		12/08/10 12:18 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry			E903.0		12/06/10 12:18 / eli-ca
Radium 228	1.5	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.6	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 MDC	0.8	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-006
Client Sample ID 1011126-06C, NEOCD 02 110210

Report Date: 12/08/10
Collection Date: 11/02/10 13:40
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:10 / klp
RADIONUCLIDES							
Radium 226	0.6	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 226 precision (±)	0.2	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 228	1.5	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.6	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 MDC	0.9	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011128
Lab ID: B10110548-007
Client Sample ID: 1011126-07C, NEOCD 03 1102010

Report Date: 12/08/10
Collection Date: 11/02/10 14:00
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:12 / kjp
RADIONUCLIDES							
Radium 226	0.6	pCi/g-dry			E903.0		12/08/10 13:49 / eli-ca
Radium 226 precision (±)	0.2	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 228	1.4	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.6	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 MDC	0.9	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-008
Client Sample ID 1011126-08C, NEOCD 04 110210

Report Date: 12/08/10
Collection Date: 11/02/10 14:30
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:14 / kjp
RADIONUCLIDES							
Radium 226	0.6	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 226 precision (±)	0.2	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 228	1.1	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.6	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 MDC	0.9	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-009
Client Sample ID: 1011126-09C, BD 1 110210

Report Date: 12/08/10
Collection Date: 11/02/10
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:16 / kjp
RADIONUCLIDES							
Radium 226	0.6	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 226 precision (±)	0.2	pCi/g-dry			E903.0		12/08/10 13:49 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 228	0.8	pCi/g-dry	U		RA-05		11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.5	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 MDC	0.8	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-010
Client Sample ID: 1011126-12C, NEOCD Closure 110210

Report Date: 12/08/10
Collection Date: 11/02/10 14:40
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:18 / kjp
RADIONUCLIDES							
Radium 226	0.5	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 226 precision (±)	0.1	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 228	1	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.6	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 MDC	0.9	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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QA/QC Summary Report

Client: Hall Environmental
Project: 1011126

Report Date: 12/08/10
Work Order: B10110548

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: C_R140653
Sample ID: B10110548-002A	Sample Matrix Spike			Run: SUB-C140653			12/06/10 12:18			
Radium 226	14	pCi/g-dry		98		70	130			
Sample ID: B10110548-002A	Sample Matrix Spike Duplicate			Run: SUB-C140653			12/06/10 12:18			
Radium 226	15	pCi/g-dry		103		70	130	8.6	21.3	
Sample ID: LCS-28206	Laboratory Control Sample			Run: SUB-C140653			12/06/10 12:18			
Radium 226	1.4	pCi/g-dry		94		70	130			
Sample ID: MB-28206	3	Method Blank		Run: SUB-C140653			12/06/10 12:18			
Radium 226	-0.0001	pCi/g-dry								U
Radium 226 precision ($\pm$)	0.0001	pCi/g-dry								
Radium 226 MDC	0.0002	pCi/g-dry								

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



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QA/QC Summary Report

Client: Hall Environmental
Project: 1011126

Report Date: 12/08/10
Work Order: B10110548

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: C_28206
Sample ID: LCS-28206	Laboratory Control Sample			Run: SUB-C140336			11/29/10 12:52			
Radium 228		1.3	pCi/g-dry	98		70	130			
Sample ID: MB-28206	3	Method Blank		Run: SUB-C140336			11/29/10 12:52			
Radium 228		0.0007	pCi/g-dry							U
Radium 228 precision ($\pm$)		0.001	pCi/g-dry							
Radium 228 MDC		0.002	pCi/g-dry							
Sample ID: B10110548-002A	Sample Matrix Spike			Run: SUB-C140336			11/29/10 12:52			
Radium 228		13	pCi/g-dry	107		70	130			
Sample ID: B10110548-002A	Sample Matrix Spike Duplicate			Run: SUB-C140336			11/29/10 12:52			
Radium 228		13	pCi/g-dry	102		70	130	1.4	31.6	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



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QA/QC Summary Report

Client: Hall Environmental
Project: 1011126

Report Date: 12/08/10
Work Order: B10110548

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW9012										Batch: 50380
Sample ID: LCS-50380		Laboratory Control Sample					Run: AUTOAN201-B_101109A			11/09/10 14:09
Cyanide, Total		5.15	mg/kg	0.50	103	60	140			
Sample ID: MB-50380		Method Blank					Run: AUTOAN201-B_101109A			11/09/10 14:14
Cyanide, Total		ND	mg/kg	0.5						
Sample ID: B10110548-002AMS		Sample Matrix Spike					Run: AUTOAN201-B_101109A			11/09/10 14:54
Cyanide, Total		5.26	mg/kg	0.50	105	50	150			
Sample ID: B10110548-002AMSD		Sample Matrix Spike					Run: AUTOAN201-B_101109A			11/09/10 14:56
Cyanide, Total		5.30	mg/kg	0.50	106	50	150			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: 1011126-02AMSD	MSD					Batch ID: 24525	Analysis Date: 11/16/2010 4:51:35 AM				
Fluoride	3.751	mg/Kg	0.30	1.5	2.856	59.7	13.2	140	2.31	20	
Nitrogen, Nitrate (As N)	14.49	mg/Kg	0.30	7.5	6.261	110	71.4	132	5.04	20	
Sample ID: MB-24525	MBLK					Batch ID: 24525	Analysis Date: 11/16/2010 3:07:07 AM				
Fluoride	ND	mg/Kg	0.30								
Chloride	ND	mg/Kg	1.5								
Nitrogen, Nitrate (As N)	ND	mg/Kg	0.30								
Sulfate	ND	mg/Kg	1.5								
Sample ID: LCS-24525	LCS					Batch ID: 24525	Analysis Date: 11/16/2010 3:24:31 AM				
Fluoride	1.549	mg/Kg	0.30	1.5	0	103	90	110			
Chloride	13.53	mg/Kg	1.5	15	0	90.2	90	110			
Nitrogen, Nitrate (As N)	6.924	mg/Kg	0.30	7.5	0	92.3	90	110			
Sulfate	27.55	mg/Kg	1.5	30	0	91.8	90	110			
Sample ID: 1011126-02AMS	MS					Batch ID: 24525	Analysis Date: 11/16/2010 4:34:10 AM				
Fluoride	3.665	mg/Kg	0.30	1.5	2.856	54.0	13.2	140			
Nitrogen, Nitrate (As N)	13.77	mg/Kg	0.30	7.5	6.261	100	71.4	132			
Method: EPA Method 418.1: TPH											
Sample ID: 1011126-02BMSD	MSD					Batch ID: 24385	Analysis Date: 11/5/2010				
Petroleum Hydrocarbons, TR	91.18	mg/Kg	20	100	0	91.2	80	120	3.19	20	
Sample ID: MB-24385	MBLK					Batch ID: 24385	Analysis Date: 11/5/2010				
Petroleum Hydrocarbons, TR	ND	mg/Kg	20								
Sample ID: LCS-24385	LCS					Batch ID: 24385	Analysis Date: 11/5/2010				
Petroleum Hydrocarbons, TR	96.90	mg/Kg	20	100	0	96.9	86.8	116			
Sample ID: LCSD-24385	LCSD					Batch ID: 24385	Analysis Date: 11/5/2010				
Petroleum Hydrocarbons, TR	98.32	mg/Kg	20	100	0	98.3	86.8	116	1.45	16.2	
Sample ID: 1011126-02BMS	MS					Batch ID: 24385	Analysis Date: 11/5/2010				
Petroleum Hydrocarbons, TR	88.32	mg/Kg	20	100	0	88.3	80	120			
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-24372	MBLK					Batch ID: 24372	Analysis Date: 11/5/2010 5:35:45 PM				
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-24372	LCS					Batch ID: 24372	Analysis Date: 11/5/2010 6:09:52 PM				
Diesel Range Organics (DRO)	46.05	mg/Kg	10	50	0	92.1	64.6	116			
Sample ID: LCSD-24372	LCSD					Batch ID: 24372	Analysis Date: 11/5/2010 6:44:00 PM				
Diesel Range Organics (DRO)	45.70	mg/Kg	10	50	0	91.4	64.6	116	0.769	17.4	

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1011126-12B MSD		MSD									
Gasoline Range Organics (GRO)	25.20	mg/Kg	5.0	25	0	101	69.2	144	10.7	20.5	
Sample ID: MB-24378		MBLK									
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-24378		LCS									
Gasoline Range Organics (GRO)	25.68	mg/Kg	5.0	25	0	103	95.7	120			
Sample ID: 1011126-12B MS		MS									
Gasoline Range Organics (GRO)	28.05	mg/Kg	5.0	25	0	112	69.2	144			
Method: EPA Method 8082: PCB's											
Sample ID: 1011126-02BMSD		MSD									
Aroclor 1260	0.1255	mg/Kg	0.020	0.125	0	100	45	117	2.32	20	
Sample ID: MB-24367		MBLK									
Aroclor 1016	ND	mg/Kg	0.020								
Aroclor 1221	ND	mg/Kg	0.020								
Aroclor 1232	ND	mg/Kg	0.020								
Aroclor 1242	ND	mg/Kg	0.020								
Aroclor 1248	ND	mg/Kg	0.020								
Aroclor 1254	ND	mg/Kg	0.020								
Aroclor 1260	ND	mg/Kg	0.020								
Sample ID: LCS-24367		LCS									
Aroclor 1260	0.09900	mg/Kg	0.020	0.125	0	79.2	38.2	140			
Sample ID: 1011126-02BMS		MS									
Aroclor 1260	0.1284	mg/Kg	0.020	0.125	0	103	45	117			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: 1011126-02BMSD

MSD

Batch ID: 24378 Analysis Date: 11/7/2010 1:15:05 AM

Benzene	0.9250	mg/Kg	0.050	1	0	92.5	62.3	118	1.07	20	
Toluene	0.9231	mg/Kg	0.050	1	0.0154	90.8	76.4	120	2.80	12.5	
Chlorobenzene	0.9122	mg/Kg	0.050	1	0.0063	90.6	78.1	125	0.889	14	
1,1-Dichloroethene	1.072	mg/Kg	0.050	1	0	107	60.9	128	1.92	30.9	
Trichloroethene (TCE)	0.8648	mg/Kg	0.050	1	0	86.5	56.2	102	3.71	21.1	

Sample ID: mb-24378

MBLK

Batch ID: 24378 Analysis Date: 11/7/2010 2:11:46 AM

Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.050								
1,2,4-Trimethylbenzene	ND	mg/Kg	0.050								
1,3,5-Trimethylbenzene	ND	mg/Kg	0.050								
1,2-Dichloroethane (EDC)	ND	mg/Kg	0.050								
1,2-Dibromoethane (EDB)	ND	mg/Kg	0.050								
Naphthalene	ND	mg/Kg	0.10								
1-Methylnaphthalene	ND	mg/Kg	0.20								
2-Methylnaphthalene	ND	mg/Kg	0.20								
Acetone	ND	mg/Kg	0.75								
Bromobenzene	ND	mg/Kg	0.050								
Bromodichloromethane	ND	mg/Kg	0.050								
Bromoform	ND	mg/Kg	0.050								
Bromomethane	ND	mg/Kg	0.15								
2-Butanone	ND	mg/Kg	0.50								
Carbon disulfide	ND	mg/Kg	0.50								
Carbon tetrachloride	ND	mg/Kg	0.10								
Chlorobenzene	ND	mg/Kg	0.050								
Chloroethane	ND	mg/Kg	0.10								
Chloroform	ND	mg/Kg	0.050								
Chloromethane	ND	mg/Kg	0.15								
2-Chlorotoluene	ND	mg/Kg	0.050								
4-Chlorotoluene	ND	mg/Kg	0.050								
cis-1,2-DCE	ND	mg/Kg	0.050								
cis-1,3-Dichloropropene	ND	mg/Kg	0.050								
1,2-Dibromo-3-chloropropane	ND	mg/Kg	0.10								
Dibromochloromethane	ND	mg/Kg	0.050								
Dibromomethane	ND	mg/Kg	0.10								
1,2-Dichlorobenzene	ND	mg/Kg	0.050								
1,3-Dichlorobenzene	ND	mg/Kg	0.050								
1,4-Dichlorobenzene	ND	mg/Kg	0.050								
Dichlorodifluoromethane	ND	mg/Kg	0.050								
1,1-Dichloroethane	ND	mg/Kg	0.10								
1,1-Dichloroethene	ND	mg/Kg	0.050								
1,2-Dichloropropane	ND	mg/Kg	0.050								
1,3-Dichloropropane	ND	mg/Kg	0.050								

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: mb-24378

MBLK

Batch ID: 24378 Analysis Date: 11/7/2010 2:11:46 AM

2,2-Dichloropropane	ND	mg/Kg	0.10
1,1-Dichloropropene	ND	mg/Kg	0.10
Hexachlorobutadiene	ND	mg/Kg	0.10
2-Hexanone	ND	mg/Kg	0.50
Isopropylbenzene	ND	mg/Kg	0.050
4-Isopropyltoluene	ND	mg/Kg	0.050
4-Methyl-2-pentanone	ND	mg/Kg	0.50
Methylene chloride	ND	mg/Kg	0.15
n-Butylbenzene	ND	mg/Kg	0.050
n-Propylbenzene	ND	mg/Kg	0.050
sec-Butylbenzene	ND	mg/Kg	0.050
Styrene	ND	mg/Kg	0.050
tert-Butylbenzene	ND	mg/Kg	0.050
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.050
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.050
Tetrachloroethene (PCE)	ND	mg/Kg	0.050
trans-1,2-DCE	ND	mg/Kg	0.050
trans-1,3-Dichloropropene	ND	mg/Kg	0.050
1,2,3-Trichlorobenzene	ND	mg/Kg	0.10
1,2,4-Trichlorobenzene	ND	mg/Kg	0.050
1,1,1-Trichloroethane	ND	mg/Kg	0.050
1,1,2-Trichloroethane	ND	mg/Kg	0.050
Trichloroethene (TCE)	ND	mg/Kg	0.050
Trichlorofluoromethane	ND	mg/Kg	0.050
1,2,3-Trichloropropane	ND	mg/Kg	0.10
Vinyl chloride	ND	mg/Kg	0.050
Xylenes, Total	ND	mg/Kg	0.10

Sample ID: lcs-24378

LCS

Batch ID: 24378 Analysis Date: 11/7/2010 1:43:27 AM

Benzene	1.009	mg/Kg	0.050	1	0	101	73.3	116
Toluene	1.012	mg/Kg	0.050	1	0	101	90.5	117
Chlorobenzene	1.033	mg/Kg	0.050	1	0.0068	103	93.6	113
1,1-Dichloroethene	1.158	mg/Kg	0.050	1	0	116	68.4	131
Trichloroethene (TCE)	0.9131	mg/Kg	0.050	1	0	91.3	64.6	100

Sample ID: 1011126-02BMS

MS

Batch ID: 24378 Analysis Date: 11/7/2010 1:46:47 AM

Benzene	0.9152	mg/Kg	0.050	1	0	91.5	62.3	118
Toluene	0.8976	mg/Kg	0.050	1	0.0154	88.2	76.4	120
Chlorobenzene	0.9041	mg/Kg	0.050	1	0.0063	89.8	78.1	125
1,1-Dichloroethene	1.052	mg/Kg	0.050	1	0	105	60.9	128
Trichloroethene (TCE)	0.8333	mg/Kg	0.050	1	0	83.3	56.2	102

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8280B: VOLATILES

Sample ID: b5

MBLK

Batch ID: R41938 Analysis Date: 11/3/2010 9:04:01 PM

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0
1,2,4-Trimethylbenzene	ND	µg/L	1.0
1,3,5-Trimethylbenzene	ND	µg/L	1.0
1,2-Dichloroethane (EDC)	ND	µg/L	1.0
1,2-Dibromoethane (EDB)	ND	µg/L	1.0
Naphthalene	ND	µg/L	2.0
1-Methylnaphthalene	ND	µg/L	4.0
2-Methylnaphthalene	ND	µg/L	4.0
Acetone	ND	µg/L	10
Bromobenzene	ND	µg/L	1.0
Bromodichloromethane	ND	µg/L	1.0
Bromoform	ND	µg/L	1.0
Bromomethane	ND	µg/L	3.0
2-Butanone	ND	µg/L	10
Carbon disulfide	ND	µg/L	10
Carbon Tetrachloride	ND	µg/L	1.0
Chlorobenzene	ND	µg/L	1.0
Chloroethane	ND	µg/L	2.0
Chloroform	ND	µg/L	1.0
Chloromethane	ND	µg/L	3.0
2-Chlorotoluene	ND	µg/L	1.0
4-Chlorotoluene	ND	µg/L	1.0
cis-1,2-DCE	ND	µg/L	1.0
cis-1,3-Dichloropropene	ND	µg/L	1.0
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0
Dibromochloromethane	ND	µg/L	1.0
Dibromomethane	ND	µg/L	1.0
1,2-Dichlorobenzene	ND	µg/L	1.0
1,3-Dichlorobenzene	ND	µg/L	1.0
1,4-Dichlorobenzene	ND	µg/L	1.0
Dichlorodifluoromethane	ND	µg/L	1.0
1,1-Dichloroethane	ND	µg/L	1.0
1,1-Dichloroethene	ND	µg/L	1.0
1,2-Dichloropropane	ND	µg/L	1.0
1,3-Dichloropropane	ND	µg/L	1.0
2,2-Dichloropropane	ND	µg/L	2.0
1,1-Dichloropropene	ND	µg/L	1.0
Hexachlorobutadiene	ND	µg/L	1.0
2-Hexanone	ND	µg/L	10
Isopropylbenzene	ND	µg/L	1.0
4-Isopropyltoluene	ND	µg/L	1.0

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: b5

MBLK

Batch ID: R41938 Analysis Date: 11/3/2010 9:04:01 PM

4-Methyl-2-pentanone	ND	µg/L	10
Methylene Chloride	ND	µg/L	3.0
n-Butylbenzene	ND	µg/L	1.0
n-Propylbenzene	ND	µg/L	1.0
sec-Butylbenzene	ND	µg/L	1.0
Styrene	ND	µg/L	1.0
tert-Butylbenzene	ND	µg/L	1.0
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0
Tetrachloroethene (PCE)	ND	µg/L	1.0
trans-1,2-DCE	ND	µg/L	1.0
trans-1,3-Dichloropropene	ND	µg/L	1.0
1,2,3-Trichlorobenzene	ND	µg/L	1.0
1,2,4-Trichlorobenzene	ND	µg/L	1.0
1,1,1-Trichloroethane	ND	µg/L	1.0
1,1,2-Trichloroethane	ND	µg/L	1.0
Trichloroethene (TCE)	ND	µg/L	1.0
Trichlorofluoromethane	ND	µg/L	1.0
1,2,3-Trichloropropane	ND	µg/L	2.0
Vinyl chloride	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	1.5

Sample ID: 100ng lcs

LCS

Batch ID: R41938 Analysis Date: 11/3/2010 8:37:59 PM

Benzene	18.51	µg/L	1.0	20	0	92.5	84.6	109
Toluene	18.15	µg/L	1.0	20	0	90.7	81	114
Chlorobenzene	18.43	µg/L	1.0	20	0	92.1	85.2	113
1,1-Dichloroethene	17.36	µg/L	1.0	20	0	86.8	79.6	124
Trichloroethene (TCE)	18.03	µg/L	1.0	20	0	90.1	78.3	102

Qualifiers:

E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
NC Non-Chlorinated
R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8270C: Semivolatiles

Sample ID: 1011126-02Bmsd

MSD

Batch ID: 24447

Analysis Date: 11/11/2010 2:19:31 PM

Acenaphthene	1.395	mg/Kg	0.20	1.67	0	83.5	33.2	123	4.28	16.2
4-Chloro-3-methylphenol	2.954	mg/Kg	0.50	3.33	0	88.7	17.4	119	10.7	20.2
2-Chlorophenol	3.036	mg/Kg	0.20	3.33	0	91.2	25.3	117	8.96	30.6
1,4-Dichlorobenzene	1.385	mg/Kg	0.20	1.67	0	83.0	24.6	111	3.01	20
2,4-Dinitrotoluene	1.964	mg/Kg	0.50	1.67	0	118	29.4	137	5.55	30.7
N-Nitrosodi-n-propylamine	1.385	mg/Kg	0.20	1.67	0	82.9	26.9	109	1.58	25.7
4-Nitrophenol	3.494	mg/Kg	0.20	3.33	0	105	13.7	165	6.08	43.7
Pentachlorophenol	2.770	mg/Kg	0.40	3.33	0	83.2	26.6	117	4.00	24.2
Phenol	2.997	mg/Kg	0.20	3.33	0	90.0	26.6	105	5.04	29.5
Pyrene	1.362	mg/Kg	0.20	1.67	0	81.6	25.8	117	1.55	32.1
1,2,4-Trichlorobenzene	1.540	mg/Kg	0.20	1.67	0	92.2	30.8	119	5.80	19.5

Sample ID: mb-24447

MBLK

Batch ID: 24447

Analysis Date: 11/11/2010 11:51:44 AM

Acenaphthene	ND	mg/Kg	0.20
Acenaphthylene	ND	mg/Kg	0.20
Aniline	ND	mg/Kg	0.20
Anthracene	ND	mg/Kg	0.20
Azobenzene	ND	mg/Kg	0.20
Benz(a)anthracene	ND	mg/Kg	0.20
Benzo(a)pyrene	ND	mg/Kg	0.20
Benzo(b)fluoranthene	ND	mg/Kg	0.20
Benzo(g,h,i)perylene	ND	mg/Kg	0.20
Benzo(k)fluoranthene	ND	mg/Kg	0.20
Benzoic acid	ND	mg/Kg	0.50
Benzyl alcohol	ND	mg/Kg	0.20
Bis(2-chloroethoxy)methane	ND	mg/Kg	0.20
Bis(2-chloroethyl)ether	ND	mg/Kg	0.20
Bis(2-chloroisopropyl)ether	ND	mg/Kg	0.20
Bis(2-ethylhexyl)phthalate	ND	mg/Kg	0.50
4-Bromophenyl phenyl ether	ND	mg/Kg	0.20
Butyl benzyl phthalate	ND	mg/Kg	0.20
Carbazole	ND	mg/Kg	0.20
4-Chloro-3-methylphenol	ND	mg/Kg	0.50
4-Chloroaniline	ND	mg/Kg	0.50
2-Chloronaphthalene	ND	mg/Kg	0.25
2-Chlorophenol	ND	mg/Kg	0.20
4-Chlorophenyl phenyl ether	ND	mg/Kg	0.20
Chrysene	ND	mg/Kg	0.20
Di-n-butyl phthalate	ND	mg/Kg	0.50
Di-n-octyl phthalate	ND	mg/Kg	0.25
Dibenz(a,h)anthracene	ND	mg/Kg	0.20
Dibenzofuran	ND	mg/Kg	0.20
1,2-Dichlorobenzene	ND	mg/Kg	0.20
1,3-Dichlorobenzene	ND	mg/Kg	0.20
1,4-Dichlorobenzene	ND	mg/Kg	0.20

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8270C: Semivolatiles

Sample ID: mb-24447

MBLK

Batch ID: 24447 Analysis Date: 11/11/2010 11:51:44 AM

3,3'-Dichlorobenzidine	ND	mg/Kg	0.25
Diethyl phthalate	ND	mg/Kg	0.20
Dimethyl phthalate	ND	mg/Kg	0.20
2,4-Dichlorophenol	ND	mg/Kg	0.40
2,4-Dimethylphenol	ND	mg/Kg	0.30
4,6-Dinitro-2-methylphenol	ND	mg/Kg	0.50
2,4-Dinitrophenol	ND	mg/Kg	0.40
2,4-Dinitrotoluene	ND	mg/Kg	0.50
2,6-Dinitrotoluene	ND	mg/Kg	0.50
Fluoranthene	ND	mg/Kg	0.20
Fluorene	ND	mg/Kg	0.20
Hexachlorobenzene	ND	mg/Kg	0.20
Hexachlorobutadiene	ND	mg/Kg	0.20
Hexachlorocyclopentadiene	ND	mg/Kg	0.20
Hexachloroethane	ND	mg/Kg	0.20
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.20
Isophorone	ND	mg/Kg	0.50
2-Methylnaphthalene	ND	mg/Kg	0.20
2-Methylphenol	ND	mg/Kg	0.50
3+4-Methylphenol	ND	mg/Kg	0.20
N-Nitrosodi-n-propylamine	ND	mg/Kg	0.20
N-Nitrosodiphenylamine	ND	mg/Kg	0.20
Naphthalene	ND	mg/Kg	0.20
2-Nitroaniline	ND	mg/Kg	0.20
3-Nitroaniline	ND	mg/Kg	0.20
4-Nitroaniline	ND	mg/Kg	0.40
Nitrobenzene	ND	mg/Kg	0.50
2-Nitrophenol	ND	mg/Kg	0.20
4-Nitrophenol	ND	mg/Kg	0.20
Pentachlorophenol	ND	mg/Kg	0.40
Phenanthrene	ND	mg/Kg	0.20
Phenol	ND	mg/Kg	0.20
Pyrene	ND	mg/Kg	0.20
Pyridine	ND	mg/Kg	0.50
1,2,4-Trichlorobenzene	ND	mg/Kg	0.20
2,4,5-Trichlorophenol	ND	mg/Kg	0.20
2,4,6-Trichlorophenol	ND	mg/Kg	0.20

Sample ID: lcs-24447

LCS

Batch ID: 24447 Analysis Date: 11/11/2010 12:21:16 PM

Acenaphthene	1.619	mg/Kg	0.20	3.34	0	48.5	40	106
4-Chloro-3-methylphenol	3.579	mg/Kg	0.50	6.66	0	53.7	31.9	112
2-Chlorophenol	3.441	mg/Kg	0.20	6.66	0	51.7	31.2	110
1,4-Dichlorobenzene	1.531	mg/Kg	0.20	3.34	0	45.8	32.5	105
2,4-Dinitrotoluene	2.364	mg/Kg	0.50	3.34	0	70.8	38.2	108
N-Nitrosodi-n-propylamine	1.516	mg/Kg	0.20	3.34	0	45.4	30.9	98.9

Qualifiers:

E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 NC Non-Chlorinated
 R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8270C: Semivolatiles

Sample ID: Ics-24447

LCS

Batch ID: 24447

Analysis Date: 11/11/2010 12:21:16 PM

4-Nitrophenol	4.041	mg/Kg	0.20	6.66	0	60.7	32.4	114			
Pentachlorophenol	2.854	mg/Kg	0.40	6.66	0	42.9	30.4	101			
Phenol	3.182	mg/Kg	0.20	6.66	0	47.8	27.9	105			
Pyrene	1.860	mg/Kg	0.20	3.34	0	55.7	31.9	103			
1,2,4-Trichlorobenzene	1.655	mg/Kg	0.20	3.34	0	49.8	33.1	112			

Sample ID: 1011126-02Bms

MS

Batch ID: 24447

Analysis Date: 11/11/2010 1:49:50 PM

Acenaphthene	1.456	mg/Kg	0.20	1.67	0	87.2	33.2	123			
4-Chloro-3-methylphenol	3.289	mg/Kg	0.50	3.33	0	98.8	17.4	119			
2-Chlorophenol	3.321	mg/Kg	0.20	3.33	0	99.7	25.3	117			
1,4-Dichlorobenzene	1.428	mg/Kg	0.20	1.67	0	85.5	24.6	111			
2,4-Dinitrotoluene	2.076	mg/Kg	0.50	1.67	0	124	29.4	137			
N-Nitrosodi-n-propylamine	1.407	mg/Kg	0.20	1.67	0	84.2	26.9	109			
4-Nitrophenol	3.713	mg/Kg	0.20	3.33	0	111	13.7	165			
Pentachlorophenol	2.883	mg/Kg	0.40	3.33	0	86.6	26.6	117			
Phenol	3.152	mg/Kg	0.20	3.33	0	94.7	26.6	105			
Pyrene	1.384	mg/Kg	0.20	1.67	0	82.9	25.8	117			
1,2,4-Trichlorobenzene	1.632	mg/Kg	0.20	1.67	0	97.7	30.8	119			

Method: EPA Method 7471: Mercury

Sample ID: 1011126-02AMSD

MSD

Batch ID: 24471

Analysis Date: 11/11/2010 1:31:22 PM

Mercury	0.3132	mg/Kg	0.033	0.167	0.035	167	75	125	37.7	20	SR
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Sample ID: MB-24471

MBLK

Batch ID: 24471

Analysis Date: 11/11/2010 1:22:36 PM

Mercury	ND	mg/Kg	0.033								
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Sample ID: LCS-24471

LCS

Batch ID: 24471

Analysis Date: 11/11/2010 1:24:20 PM

Mercury	0.1719	mg/Kg	0.033	0.167	0	103	80	120			
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Sample ID: 1011126-02AMS

MS

Batch ID: 24471

Analysis Date: 11/11/2010 1:29:35 PM

Mercury	0.2139	mg/Kg	0.033	0.167	0.035	107	75	125			
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Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 6010B: Soli Metals

Sample ID: 1011126-02AMSD

MSD

Batch ID: 24461

Analysis Date: 11/17/2010 10:08:42 AM

Arsenic	25.86	mg/Kg	13	24.7	3.856	89.1	75	125	6.43	20	
Cadmium	23.48	mg/Kg	0.50	24.7	0	95.1	75	125	2.04	20	
Chromium	39.77	mg/Kg	1.5	24.7	20.5	78.0	75	125	4.57	20	
Copper	42.36	mg/Kg	1.5	24.7	21.5	84.4	75	125	1.87	20	
Lead	29.70	mg/Kg	1.3	24.7	8.612	85.4	75	125	6.53	20	
Selenium	ND	mg/Kg	13	24.7	0	45.8	75	125	0	20	S
Silver	23.23	mg/Kg	1.3	24.7	0	94.0	75	125	2.51	20	
Zinc	92.41	mg/Kg	13	24.7	95.88	-14.1	75	125	16.9	20	S

Sample ID: MB-24461

MBLK

Batch ID: 24461

Analysis Date: 11/17/2010 9:12:03 AM

Arsenic	ND	mg/Kg	2.5								
Barium	ND	mg/Kg	0.10								
Cadmium	ND	mg/Kg	0.10								
Chromium	ND	mg/Kg	0.30								
Copper	ND	mg/Kg	0.30								
Iron	2.148	mg/Kg	1.0								
Lead	ND	mg/Kg	0.25								
Manganese	ND	mg/Kg	0.10								
Selenium	ND	mg/Kg	2.5								
Silver	ND	mg/Kg	0.25								
Uranium	ND	mg/Kg	5.0								
Zinc	ND	mg/Kg	2.5								

Sample ID: LCS-24461

LCS

Batch ID: 24461

Analysis Date: 11/17/2010 9:15:17 AM

Arsenic	25.47	mg/Kg	2.5	25	0	102	80	120			
Barium	24.11	mg/Kg	0.10	25	0	96.4	80	120			
Cadmium	24.34	mg/Kg	0.10	25	0	97.4	80	120			
Chromium	24.90	mg/Kg	0.30	25	0	99.6	80	120			
Copper	26.09	mg/Kg	0.30	25	0.0945	104	80	120			
Iron	28.43	mg/Kg	1.0	25	2.148	105	80	120			B
Lead	23.93	mg/Kg	0.25	25	0	95.7	80	120			
Manganese	24.24	mg/Kg	0.10	25	0	97.0	80	120			
Selenium	24.31	mg/Kg	2.5	25	0.925	93.5	80	120			
Silver	24.28	mg/Kg	0.25	25	0.0238	97.0	80	120			
Uranium	26.81	mg/Kg	5.0	25	0	107	80	120			
Zinc	24.83	mg/Kg	2.5	25	0.5498	97.1	80	120			

Sample ID: 1011126-02AMS

MS

Batch ID: 24461

Analysis Date: 11/17/2010 10:02:13 AM

Arsenic	27.58	mg/Kg	13	24.75	3.856	95.9	75	125			
Cadmium	23.00	mg/Kg	0.50	24.75	0	93.0	75	125			
Chromium	41.63	mg/Kg	1.5	24.75	20.5	85.4	75	125			
Copper	41.57	mg/Kg	1.5	24.75	21.5	81.1	75	125			
Lead	27.82	mg/Kg	1.3	24.75	8.612	77.6	75	125			
Selenium	ND	mg/Kg	13	24.75	0	42.0	75	125			S
Silver	22.65	mg/Kg	1.3	24.75	0	91.5	75	125			
Zinc	78.01	mg/Kg	13	24.75	95.88	-72.2	75	125			S

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU

Date Received:

11/3/2010

Work Order Number 1011126

Received by: AMF

Sample ID labels checked by:

Checklist completed by:

Signature

Date

Initials

Matrix:

Carrier name Client drop-off

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

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

Container/Temp Blank temperature?

2.4°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Western Refining

Mailing Address: Route 3 Box 7

Callop, NM 873-1

Phone #: 505 722-3833

email or Fax#: 505 722-0210

QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)

☐ Other ☐ EDD (Type) _____

Turn-Around Time: ☒ Standard ☐ Rush

Project Name: OCD Landforms

Project #: 647-039-001

Project Manager: Ed Riege

Sampler: G. Price

Office: Albuquerque, NM

Sample Temperature: 10

Container Type and #

Preservative Type

HEAT No.



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Phone #: 505 722-3833		email or Fax#: 505 722-0210		QA/QC Package: ☒ Standard ☐ Other ☐ EDD (Type) _____		Project Manager: Ed Riege		Analysis Request	
Level 4 (Full Validation) ☐		Sample Request ID		Matrix		Date		Time	
12/10 1015		S		CentralOCD-01-110210		3-802		None	
12/10 1120		S		CentralOCD-02-110210				-2	
12/10 1145		S		CentralOCD-03-110210				-3	
12/10 1210		S		CentralOCD-04-110210				-4	
12/10 1315		S		NEOCD-01-110210				-5	
12/10 1340		S		NEOCD-02-110210				-6	
12/10 1430		S		NEOCD-03-110210				-7	
12/10 1430		S		NEOCD-04-110210				-8	
12/10 1120		S		MS/MSD-110210				-9	
12/10		S		BD-1-110210				-10	
12/10 1455		W		FB-110210		3 VOA		14CL	
12/10 1450		W		EB-110210		3 VOA		14CL	
Date: 11/3/10		Time: 1130		Relinquished by: [Signature]		Received by: [Signature]		Date: 11/3/10	
Time: 1130		Date: 11/3/10		Time: 9:25		Date: 11/3/10		Remarks: MS/MSD from CentralOCD-02-110210	
Time: 9:25		Date: 11/3/10		Time: 9:25		Date: 11/3/10		Please CC Grand Price w results	
Time: 9:25		Date: 11/3/10		Time: 9:25		Date: 11/3/10		gprice@Trihydro.com	
Time: 9:25		Date: 11/3/10		Time: 9:25		Date: 11/3/10		307-745-7474	

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

Chain-of-Custody Record

Client: Western Refining

Mailing Address: Route 3 Box 7

Gallup, NM 87301

Phone #: 505 722-3833

email or Fax#: 505 722-0210

QA/QC Package:

☒ Standard

☐ Other

☐ EDD (Type) _____

☐ Level 4 (Full Validation)

Project Manager:

Ed Riege

Sampler:

C. Price

On Site: Yes ☒ No ☐
 Sample Temperature: 70

Container Type and #
 Preservative Type

3-802
none
2 vOA
HCL
End of Record

Date Time Matrix Sample Request ID

1/2/10 1440
✓
5
W
NECD-closure-110210
Trip Blank
End of Record

Date: 1/3/10 Time: 9:35

Relinquished by: [Signature]

Date: 1/3/10 Time: 9:12

Received by: [Signature]

Received by: [Signature]

Date: 1/3/10 Time: 9:12

Received by: [Signature]

Date: 1/3/10 Time: 9:12

Remarks:

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

OLD Landfills

Project #: 697-039-001

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTX + MTBE + TMBs (8021)	☒	BTX + MTBE + TPH (Gas only)	☒	TPH Method 8015B (Gas/Diesel)	☒	TPH (Method 418.1)	☒	EDB (Method 504.1)		8310 (PNA or PAH)		RCRA 8 Metals		Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)		8081 Pesticides / 8082 PCB's		8260B (VOA)		8270 (Semi-VOA)	☒	Chlorides	☒	NMC 115 (attached)	☒	Air Bubbles (Y or N)	
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Chavez, Carl J, EMNRD

From: Riege, Ed [Ed.Riege@wnr.com]
Sent: Wednesday, December 15, 2010 1:48 PM
To: Chavez, Carl J, EMNRD; VanHorn, Kristen, NMENV
Cc: Grant Price; Regina Mitchell
Subject: FW: OCD Landfarms - 1011126
Attachments: 1011126.pdf

Dear Carl,

Western Refining Company's Gallup Refinery conducted semiannual sampling of the Northeast and Central OCD Landfarms during August of 2010. Chloride exceedances were observed at both landfarms during this sampling event. OCD was notified of the exceedances in a letter dated October 11, 2010. In this correspondence, OCD was informed of Gallup's intent to collect confirmation samples in accordance with Gallup's Discharge Permit. OCD concurred with this plan in an email dated October 12, 2010. Confirmation samples were collected during the first week of November, 2010, as proposed in the October 11, 2010 correspondence. Per Gallup's Discharge Permit, the results of the re-sampling event and a response action plan (if required) are to be submitted to OCD within 45 days of the initial exceedance notification. The results of the confirmation sampling event are attached. However, since these results were received on Monday (December 13, 2010), Gallup has not had time to validate and evaluate the data. Gallup intends to conduct a Tier II data validation and evaluate the new data prior to determining the appropriate path forward. OCD will be notified and consulted once the data is validated and evaluated. If you have any comments or questions regarding the information in this email, please do not hesitate to contact me.

Thanks,

Ed

Ed Riege
Environmental Manager

Western Refining
Gallup Refinery
Route 3 Box 7
Gallup, NM 87301
(505) 722-0217
ed.riege@wnr.com



COVER LETTER

Friday, December 10, 2010

Ed Riege
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301
TEL: (505) 722-3833
FAX (505) 722-0210

RE: OCD Landfarms

Order No.: 1011126

Dear Ed Riege:

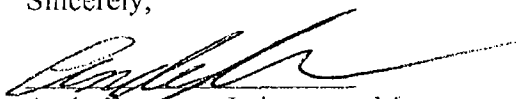
Hall Environmental Analysis Laboratory, Inc. received 13 sample(s) on 11/3/2010 for the analyses presented in the following report.

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

Reporting limits are determined by EPA methodology.

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

Sincerely,



Andy Freeman, Laboratory Manager

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



Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-01

Client Sample ID: CentralOCD 01 110210
Collection Date: 11/2/2010 10:15:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Surr: Decachlorobiphenyl	84.4	16.9-111		%REC	1	11/6/2010 8:54:28 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	2.6	1.5		mg/Kg	5	11/16/2010 3:41:56 AM
Chloride	720	30		mg/Kg	20	11/16/2010 3:59:21 AM
Nitrogen, Nitrate (As N)	9.4	1.5		mg/Kg	5	11/16/2010 3:41:56 AM
Sulfate	470	7.5		mg/Kg	5	11/16/2010 3:41:56 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:26:04 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 9:31:56 AM
Barium	330	1.0		mg/Kg	10	11/18/2010 10:05:45 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 9:31:56 AM
Chromium	16	1.5		mg/Kg	5	11/17/2010 9:31:56 AM
Copper	4.4	1.5		mg/Kg	5	11/17/2010 9:31:56 AM
Iron	15000	500		mg/Kg	500	11/18/2010 12:18:48 PM
Lead	6.3	1.3		mg/Kg	5	11/17/2010 9:31:56 AM
Manganese	380	1.0		mg/Kg	10	11/18/2010 10:05:45 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 9:31:56 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 9:31:56 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:05:45 AM
Zinc	24	13		mg/Kg	5	11/17/2010 9:31:56 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-01

Client Sample ID: CentralOCD 01 110210
Collection Date: 11/2/2010 10:15:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 12:50:55 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 12:50:55 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 12:50:55 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 12:50:55 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 12:50:55 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 12:50:55 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup Client Sample ID: CentralOCD 01 110210
 Lab Order: 1011126 Collection Date: 11/2/2010 10:15:00 AM
 Project: OCD Landfarms Date Received: 11/3/2010
 Lab ID: 1011126-01 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 12:50:55 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 12:50:55 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Surr: 2,4,6-Tribromophenol	79.3	32.2-125		%REC	1	11/11/2010 12:50:55 PM
Surr: 2-Fluorobiphenyl	86.9	29.8-137		%REC	1	11/11/2010 12:50:55 PM
Surr: 2-Fluorophenol	92.4	22.6-131		%REC	1	11/11/2010 12:50:55 PM
Surr: 4-Terphenyl-d14	82.2	23.8-110		%REC	1	11/11/2010 12:50:55 PM
Surr: Nitrobenzene-d5	103	29.5-130		%REC	1	11/11/2010 12:50:55 PM
Surr: Phenol-d5	98.8	25.5-127		%REC	1	11/11/2010 12:50:55 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 9:04:21 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 9:04:21 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 9:04:21 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-01

Client Sample ID: CentralOCD 01 110210
 Collection Date: 11/2/2010 10:15:00 AM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 9:04:21 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 9:04:21 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 9:04:21 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 9:04:21 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 9:04:21 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 9:04:21 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 9:04:21 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-01

Client Sample ID: CentralOCD 01 110210
Collection Date: 11/2/2010 10:15:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
Surr: 1,2-Dichloroethane-d4	102	77.8-97.5	S	%REC	1	11/6/2010 9:04:21 PM
Surr: 4-Bromofluorobenzene	97.3	82.2-105		%REC	1	11/6/2010 9:04:21 PM
Surr: Dibromofluoromethane	103	63.7-133		%REC	1	11/6/2010 9:04:21 PM
Surr: Toluene-d8	95.3	87.2-105		%REC	1	11/6/2010 9:04:21 PM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-02

Client Sample ID: CentralOCD 02 110210
Collection Date: 11/2/2010 11:20:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Surr: Decachlorobiphenyl	97.6	16.9-111		%REC	1	11/6/2010 9:42:05 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	2.9	0.30		mg/Kg	1	11/16/2010 4:16:46 AM
Chloride	78	15		mg/Kg	10	11/16/2010 5:08:59 AM
Nitrogen, Nitrate (As N)	6.3	0.30		mg/Kg	1	11/16/2010 4:16:46 AM
Sulfate	790	15		mg/Kg	10	11/16/2010 5:08:59 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	0.035	0.033		mg/Kg	1	11/11/2010 1:27:50 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 9:58:30 AM
Barium	280	1.0		mg/Kg	10	11/18/2010 10:12:05 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 9:58:30 AM
Chromium	21	1.5		mg/Kg	5	11/17/2010 9:58:30 AM
Copper	22	1.5		mg/Kg	5	11/17/2010 9:58:30 AM
Iron	17000	500		mg/Kg	500	11/18/2010 12:21:50 PM
Lead	8.6	1.3		mg/Kg	5	11/17/2010 9:58:30 AM
Manganese	430	1.0		mg/Kg	10	11/18/2010 10:12:05 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 9:58:30 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 9:58:30 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:12:05 AM
Zinc	96	13		mg/Kg	5	11/17/2010 9:58:30 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: CentralOCD 02 110210

Lab Order: 1011126

Collection Date: 11/2/2010 11:20:00 AM

Project: OCD Landfarms

Date Received: 11/3/2010

Lab ID: 1011126-02

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 1:20:21 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 1:20:21 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 1:20:21 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 1:20:21 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 1:20:21 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 1:20:21 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-02

Client Sample ID: CentralOCD 02 110210
Collection Date: 11/2/2010 11:20:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 1:20:21 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 1:20:21 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Surr: 2,4,6-Tribromophenol	73.6	32.2-125		%REC	1	11/11/2010 1:20:21 PM
Surr: 2-Fluorobiphenyl	75.2	29.8-137		%REC	1	11/11/2010 1:20:21 PM
Surr: 2-Fluorophenol	77.3	22.6-131		%REC	1	11/11/2010 1:20:21 PM
Surr: 4-Terphenyl-d14	77.9	23.8-110		%REC	1	11/11/2010 1:20:21 PM
Surr: Nitrobenzene-d5	80.6	29.5-130		%REC	1	11/11/2010 1:20:21 PM
Surr: Phenol-d5	78.9	25.5-127		%REC	1	11/11/2010 1:20:21 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 9:32:38 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 9:32:38 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 9:32:38 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-02

Client Sample ID: CentralOCD 02 110210
Collection Date: 11/2/2010 11:20:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 9:32:38 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 9:32:38 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 9:32:38 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 9:32:38 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 9:32:38 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 9:32:38 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 9:32:38 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-02

Client Sample ID: CentralOCD 02 110210
 Collection Date: 11/2/2010 11:20:00 AM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
Surr: 1,2-Dichloroethane-d4	100	77.8-97.5	S	%REC	1	11/6/2010 9:32:38 PM
Surr: 4-Bromofluorobenzene	74.6	82.2-105	S	%REC	1	11/6/2010 9:32:38 PM
Surr: Dibromofluoromethane	103	63.7-133		%REC	1	11/6/2010 9:32:38 PM
Surr: Toluene-d8	95.7	87.2-105		%REC	1	11/6/2010 9:32:38 PM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

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 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-03

Client Sample ID: CentralOCD 03 110210
Collection Date: 11/2/2010 11:45:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Surr: Decachlorobiphenyl	86.4	16.9-111		%REC	1	11/6/2010 12:01:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	6.0		mg/Kg	20	11/16/2010 5:26:24 AM
Chloride	210	30		mg/Kg	20	11/16/2010 5:26:24 AM
Nitrogen, Nitrate (As N)	7.2	6.0		mg/Kg	20	11/16/2010 5:26:24 AM
Sulfate	470	30		mg/Kg	20	11/16/2010 5:26:24 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:33:08 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 10:16:32 AM
Barium	210	0.50		mg/Kg	5	11/17/2010 10:16:32 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 10:16:32 AM
Chromium	15	1.5		mg/Kg	5	11/17/2010 10:16:32 AM
Copper	4.5	1.5		mg/Kg	5	11/17/2010 10:16:32 AM
Iron	14000	500		mg/Kg	500	11/18/2010 12:24:53 PM
Lead	5.2	1.3		mg/Kg	5	11/17/2010 10:16:32 AM
Manganese	370	1.0		mg/Kg	10	11/18/2010 10:20:12 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 10:16:32 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 10:16:32 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:20:12 AM
Zinc	25	13		mg/Kg	5	11/17/2010 10:16:32 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-03

Client Sample ID: CentralOCD 03 110210
 Collection Date: 11/2/2010 11:45:00 AM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 2:49:08 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 2:49:08 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 2:49:08 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 2:49:08 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 2:49:08 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 2:49:08 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-03

Client Sample ID: CentralOCD 03 110210
Collection Date: 11/2/2010 11:45:00 AM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 2:49:08 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 2:49:08 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Surr: 2,4,6-Tribromophenol	75.2	32.2-125		%REC	1	11/11/2010 2:49:08 PM
Surr: 2-Fluorobiphenyl	71.4	29.8-137		%REC	1	11/11/2010 2:49:08 PM
Surr: 2-Fluorophenol	73.9	22.6-131		%REC	1	11/11/2010 2:49:08 PM
Surr: 4-Terphenyl-d14	73.2	23.8-110		%REC	1	11/11/2010 2:49:08 PM
Surr: Nitrobenzene-d5	79.1	29.5-130		%REC	1	11/11/2010 2:49:08 PM
Surr: Phenol-d5	74.9	25.5-127		%REC	1	11/11/2010 2:49:08 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 10:01:01 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 10:01:01 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 10:01:01 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-03

Client Sample ID: CentralOCD 03 110210
 Collection Date: 11/2/2010 11:45:00 AM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 10:01:01 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 10:01:01 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 10:01:01 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 10:01:01 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 10:01:01 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 10:01:01 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 10:01:01 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-03

Client Sample ID: CentralOCD 03 110210
 Collection Date: 11/2/2010 11:45:00 AM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
Surr: 1,2-Dichloroethane-d4	93.9	77.8-97.5		%REC	1	11/6/2010 10:01:01 PM
Surr: 4-Bromofluorobenzene	93.7	82.2-105		%REC	1	11/6/2010 10:01:01 PM
Surr: Dibromofluoromethane	94.9	63.7-133		%REC	1	11/6/2010 10:01:01 PM
Surr: Toluene-d8	99.7	87.2-105		%REC	1	11/6/2010 10:01:01 PM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-04

Client Sample ID: Central OCD 04 110210
 Collection Date: 11/2/2010 12:10:00 PM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Surr: Decachlorobiphenyl	87.6	16.9-111		%REC	1	11/6/2010 12:48:24 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	6.6	3.0		mg/Kg	10	11/16/2010 5:43:48 AM
Chloride	380	15		mg/Kg	10	11/16/2010 5:43:48 AM
Nitrogen, Nitrate (As N)	4.7	3.0		mg/Kg	10	11/16/2010 5:43:48 AM
Sulfate	600	15		mg/Kg	10	11/16/2010 5:43:48 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:34:55 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 10:24:18 AM
Barium	380	1.0		mg/Kg	10	11/18/2010 10:35:34 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 10:24:18 AM
Chromium	16	1.5		mg/Kg	5	11/17/2010 10:24:18 AM
Copper	4.3	1.5		mg/Kg	5	11/17/2010 10:24:18 AM
Iron	16000	500		mg/Kg	500	11/18/2010 12:27:47 PM
Lead	5.2	1.3		mg/Kg	5	11/17/2010 10:24:18 AM
Manganese	320	1.0		mg/Kg	10	11/18/2010 10:35:34 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 10:24:18 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 10:24:18 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:35:34 AM
Zinc	23	13		mg/Kg	5	11/17/2010 10:24:18 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-04

Client Sample ID: Central OCD 04 110210
Collection Date: 11/2/2010 12:10:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 3:18:50 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 3:18:50 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 3:18:50 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 3:18:50 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 3:18:50 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 3:18:50 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT:	Western Refining Southwest, Gallup	Client Sample ID:	Central OCD 04 110210
Lab Order:	1011126	Collection Date:	11/2/2010 12:10:00 PM
Project:	OCD Landfarms	Date Received:	11/3/2010
Lab ID:	1011126-04	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 3:18:50 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 3:18:50 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Surr: 2,4,6-Tribromophenol	80.6	32.2-125		%REC	1	11/11/2010 3:18:50 PM
Surr: 2-Fluorobiphenyl	79.6	29.8-137		%REC	1	11/11/2010 3:18:50 PM
Surr: 2-Fluorophenol	84.7	22.8-131		%REC	1	11/11/2010 3:18:50 PM
Surr: 4-Terphenyl-d14	86.3	23.8-110		%REC	1	11/11/2010 3:18:50 PM
Surr: Nitrobenzene-d5	86.9	29.5-130		%REC	1	11/11/2010 3:18:50 PM
Surr: Phenol-d5	89.6	25.5-127		%REC	1	11/11/2010 3:18:50 PM

EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 10:29:26 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 10:29:26 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 10:29:26 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-04

Client Sample ID: Central OCD 04 110210
Collection Date: 11/2/2010 12:10:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 10:29:26 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 10:29:26 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 10:29:26 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 10:29:26 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 10:29:26 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 10:29:26 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 10:29:26 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT:	Western Refining Southwest, Gallup	Client Sample ID:	Central OCD 04 110210
Lab Order:	1011126	Collection Date:	11/2/2010 12:10:00 PM
Project:	OCD Landfarms	Date Received:	11/3/2010
Lab ID:	1011126-04	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
Surr: 1,2-Dichloroethane-d4	91.5	77.8-97.5		%REC	1	11/6/2010 10:29:26 PM
Surr: 4-Bromofluorobenzene	94.0	82.2-105		%REC	1	11/6/2010 10:29:26 PM
Surr: Dibromofluoromethane	95.6	63.7-133		%REC	1	11/6/2010 10:29:26 PM
Surr: Toluene-d8	93.3	87.2-105		%REC	1	11/6/2010 10:29:26 PM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-05

Client Sample ID: NEOCD 01 110210
Collection Date: 11/2/2010 1:15:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Surr: Decachlorobiphenyl	85.2	16.9-111		%REC	1	11/6/2010 1:35:38 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	6.0		mg/Kg	20	11/16/2010 6:36:02 AM
Chloride	100	30		mg/Kg	20	11/16/2010 6:36:02 AM
Nitrogen, Nitrate (As N)	ND	6.0		mg/Kg	20	11/16/2010 6:36:02 AM
Sulfate	230	30		mg/Kg	20	11/16/2010 6:36:02 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:36:44 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 10:32:06 AM
Barium	250	0.50		mg/Kg	5	11/17/2010 10:32:06 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 10:32:06 AM
Chromium	14	1.5		mg/Kg	5	11/17/2010 10:32:06 AM
Copper	3.2	1.5		mg/Kg	5	11/17/2010 10:32:06 AM
Iron	17000	500		mg/Kg	500	11/18/2010 12:46:15 PM
Lead	7.0	1.3		mg/Kg	5	11/17/2010 10:32:06 AM
Manganese	380	1.0		mg/Kg	10	11/18/2010 10:42:02 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 10:32:06 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 10:32:06 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:42:02 AM
Zinc	21	13		mg/Kg	5	11/17/2010 10:32:06 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-05

Client Sample ID: NEOCD 01 110210
Collection Date: 11/2/2010 1:15:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 3:48:28 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 3:48:28 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 3:48:28 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 3:48:28 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 3:48:28 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 3:48:28 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-05

Client Sample ID: NEOCD 01 110210
 Collection Date: 11/2/2010 1:15:00 PM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 3:48:28 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 3:48:28 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Surr: 2,4,6-Tribromophenol	61.8	32.2-125		%REC	1	11/11/2010 3:48:28 PM
Surr: 2-Fluorobiphenyl	59.9	29.8-137		%REC	1	11/11/2010 3:48:28 PM
Surr: 2-Fluorophenol	62.0	22.6-131		%REC	1	11/11/2010 3:48:28 PM
Surr: 4-Terphenyl-d14	67.0	23.8-110		%REC	1	11/11/2010 3:48:28 PM
Surr: Nitrobenzene-d5	66.7	29.5-130		%REC	1	11/11/2010 3:48:28 PM
Surr: Phenol-d5	61.9	25.5-127		%REC	1	11/11/2010 3:48:28 PM

EPA METHOD 8260B: VOLATILES

Analyst: DAM

Benzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 10:57:36 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 10:57:36 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 10:57:36 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-05

Client Sample ID: NEOCD 01 110210
Collection Date: 11/2/2010 1:15:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 10:57:36 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 10:57:36 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 10:57:36 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 10:57:36 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 10:57:36 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/8/2010 10:57:36 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 10:57:36 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-05

Client Sample ID: NEOCD 01 110210
Collection Date: 11/2/2010 1:15:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
Surr: 1,2-Dichloroethane-d4	94.2	77.8-97.5		%REC	1	11/6/2010 10:57:36 PM
Surr: 4-Bromofluorobenzene	93.9	82.2-105		%REC	1	11/6/2010 10:57:36 PM
Surr: Dibromofluoromethane	92.7	63.7-133		%REC	1	11/6/2010 10:57:36 PM
Surr: Toluene-d8	97.9	87.2-105		%REC	1	11/6/2010 10:57:36 PM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-06

Client Sample ID: NEOCD 02 110210
 Collection Date: 11/2/2010 1:40:00 PM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Surr: Decachlorobiphenyl	101	16.9-111		%REC	1	11/6/2010 2:21:13 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	6.0		mg/Kg	20	11/16/2010 6:53:26 AM
Chloride	72	30		mg/Kg	20	11/16/2010 6:53:26 AM
Nitrogen, Nitrate (As N)	17	6.0		mg/Kg	20	11/16/2010 6:53:26 AM
Sulfate	270	30		mg/Kg	20	11/16/2010 6:53:26 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:38:32 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 10:52:22 AM
Barium	330	1.0		mg/Kg	10	11/18/2010 10:48:43 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 10:52:22 AM
Chromium	13	1.5		mg/Kg	5	11/17/2010 10:52:22 AM
Copper	2.7	1.5		mg/Kg	5	11/17/2010 10:52:22 AM
Iron	14000	500		mg/Kg	500	11/18/2010 12:49:07 PM
Lead	5.9	1.3		mg/Kg	5	11/17/2010 10:52:22 AM
Manganese	380	1.0		mg/Kg	10	11/18/2010 10:48:43 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 10:52:22 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 10:52:22 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:48:43 AM
Zinc	24	13		mg/Kg	5	11/17/2010 10:52:22 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-06

Client Sample ID: NEOCD 02 110210
 Collection Date: 11/2/2010 1:40:00 PM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 4:18:10 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 4:18:10 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 4:18:10 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 4:18:10 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 4:18:10 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 4:18:10 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-06

Client Sample ID: NEOCD 02 110210
Collection Date: 11/2/2010 1:40:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 4:18:10 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 4:18:10 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Surr: 2,4,6-Tribromophenol	86.1	32.2-125		%REC	1	11/11/2010 4:18:10 PM
Surr: 2-Fluorobiphenyl	89.0	29.8-137		%REC	1	11/11/2010 4:18:10 PM
Surr: 2-Fluorophenol	91.3	22.6-131		%REC	1	11/11/2010 4:18:10 PM
Surr: 4-Terphenyl-d14	83.1	23.8-110		%REC	1	11/11/2010 4:18:10 PM
Surr: Nitrobenzene-d5	96.7	29.5-130		%REC	1	11/11/2010 4:18:10 PM
Surr: Phenol-d5	95.6	25.5-127		%REC	1	11/11/2010 4:18:10 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 11:25:46 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 11:25:46 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 11:25:46 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-06

Client Sample ID: NEOCD 02 110210
Collection Date: 11/2/2010 1:40:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 11:25:46 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 11:25:46 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 11:25:46 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 11:25:46 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 11:25:46 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 11:25:46 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 11:25:46 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-06

Client Sample ID: NEOCD 02 110210
Collection Date: 11/2/2010 1:40:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
Surr: 1,2-Dichloroethane-d4	94.7	77.8-97.5		%REC	1	11/6/2010 11:25:46 PM
Surr: 4-Bromofluorobenzene	94.0	82.2-105		%REC	1	11/6/2010 11:25:46 PM
Surr: Dibromofluoromethane	96.1	63.7-133		%REC	1	11/6/2010 11:25:46 PM
Surr: Toluene-d8	97.9	87.2-105		%REC	1	11/6/2010 11:25:46 PM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-07

Client Sample ID: NEOCD 03 1102010
Collection Date: 11/2/2010 2:00:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Surr: Decachlorobiphenyl	98.8	16.9-111		%REC	1	11/6/2010 5:31:43 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	6.0		mg/Kg	20	11/16/2010 7:10:51 AM
Chloride	120	30		mg/Kg	20	11/16/2010 7:10:51 AM
Nitrogen, Nitrate (As N)	6.8	6.0		mg/Kg	20	11/16/2010 7:10:51 AM
Sulfate	660	30		mg/Kg	20	11/16/2010 7:10:51 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:44:01 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 11:00:20 AM
Barium	320	1.0		mg/Kg	10	11/18/2010 10:56:56 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 11:00:20 AM
Chromium	12	1.5		mg/Kg	5	11/17/2010 11:00:20 AM
Copper	2.1	1.5		mg/Kg	5	11/17/2010 11:00:20 AM
Iron	13000	500		mg/Kg	500	11/18/2010 12:52:12 PM
Lead	5.9	1.3		mg/Kg	5	11/17/2010 11:00:20 AM
Manganese	390	1.0		mg/Kg	10	11/18/2010 10:56:56 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 11:00:20 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 11:00:20 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:56:56 AM
Zinc	17	13		mg/Kg	5	11/17/2010 11:00:20 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-07

Client Sample ID: NEOCD 03 1102010
Collection Date: 11/2/2010 2:00:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 4:47:49 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 4:47:49 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 4:47:49 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 4:47:49 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 4:47:49 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 4:47:49 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-07

Client Sample ID: NEOCD 03 1102010
 Collection Date: 11/2/2010 2:00:00 PM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 4:47:49 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 4:47:49 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Surr: 2,4,6-Tribromophenol	92.4	32.2-125		%REC	1	11/11/2010 4:47:49 PM
Surr: 2-Fluorobiphenyl	101	29.8-137		%REC	1	11/11/2010 4:47:49 PM
Surr: 2-Fluorophenol	104	22.6-131		%REC	1	11/11/2010 4:47:49 PM
Surr: 4-Terphenyl-d14	91.5	23.8-110		%REC	1	11/11/2010 4:47:49 PM
Surr: Nitrobenzene-d5	112	29.5-130		%REC	1	11/11/2010 4:47:49 PM
Surr: Phenol-d5	113	25.5-127		%REC	1	11/11/2010 4:47:49 PM

EPA METHOD 8260B: VOLATILES

Analyst: DAM

Benzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 11:53:58 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 11:53:58 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 11:53:58 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Page 33 of 56

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-07

Client Sample ID: NEOCD 03 1102010
Collection Date: 11/2/2010 2:00:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 11:53:58 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 11:53:58 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 11:53:58 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 11:53:58 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 11:53:58 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 11:53:58 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 11:53:58 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-07

Client Sample ID: NEOCD 03 1102010
 Collection Date: 11/2/2010 2:00:00 PM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
Surr: 1,2-Dichloroethane-d4	96.0	77.8-97.5		%REC	1	11/6/2010 11:53:58 PM
Surr: 4-Bromofluorobenzene	95.7	82.2-105		%REC	1	11/6/2010 11:53:58 PM
Surr: Dibromofluoromethane	97.6	63.7-133		%REC	1	11/6/2010 11:53:58 PM
Surr: Toluene-d8	97.0	87.2-105		%REC	1	11/6/2010 11:53:58 PM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT:	Western Refining Southwest, Gallup	Client Sample ID:	NEOCD 04 110210
Lab Order:	1011126	Collection Date:	11/2/2010 2:30:00 PM
Project:	OCD Landfarms	Date Received:	11/3/2010
Lab ID:	1011126-08	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Surr: Decachlorobiphenyl	99.2	16.9-111		%REC	1	11/6/2010 6:17:12 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	6.0		mg/Kg	20	11/16/2010 7:28:16 AM
Chloride	60	30		mg/Kg	20	11/16/2010 7:28:16 AM
Nitrogen, Nitrate (As N)	61	6.0		mg/Kg	20	11/16/2010 7:28:16 AM
Sulfate	390	30		mg/Kg	20	11/16/2010 7:28:16 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:45:50 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 11:08:08 AM
Barium	310	2.0		mg/Kg	20	11/18/2010 12:55:03 PM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 11:08:08 AM
Chromium	16	1.5		mg/Kg	5	11/17/2010 11:08:08 AM
Copper	3.6	1.5		mg/Kg	5	11/17/2010 11:08:08 AM
Iron	17000	500		mg/Kg	500	11/18/2010 1:25:15 PM
Lead	6.9	1.3		mg/Kg	5	11/17/2010 11:08:08 AM
Manganese	420	2.0		mg/Kg	20	11/18/2010 12:55:03 PM
Selenium	ND	13		mg/Kg	5	11/17/2010 11:08:08 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 11:08:08 AM
Uranium	ND	100		mg/Kg	20	11/18/2010 12:55:03 PM
Zinc	23	13		mg/Kg	5	11/17/2010 11:08:08 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-08

Client Sample ID: NEOCD 04 110210
Collection Date: 11/2/2010 2:30:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 5:17:19 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 5:17:19 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 5:17:19 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 5:17:19 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 5:17:19 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 5:17:19 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-08

Client Sample ID: NEOCD 04 110210
Collection Date: 11/2/2010 2:30:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 5:17:19 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 5:17:19 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Surr: 2,4,6-Tribromophenol	66.7	32.2-125		%REC	1	11/11/2010 5:17:19 PM
Surr: 2-Fluorobiphenyl	76.1	29.8-137		%REC	1	11/11/2010 5:17:19 PM
Surr: 2-Fluorophenol	76.2	22.6-131		%REC	1	11/11/2010 5:17:19 PM
Surr: 4-Terphenyl-d14	70.8	23.8-110		%REC	1	11/11/2010 5:17:19 PM
Surr: Nitrobenzene-d5	84.2	29.5-130		%REC	1	11/11/2010 5:17:19 PM
Surr: Phenol-d5	79.0	25.5-127		%REC	1	11/11/2010 5:17:19 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Toluene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Naphthalene	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/7/2010 12:22:00 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/7/2010 12:22:00 AM
Acetone	ND	0.75		mg/Kg	1	11/7/2010 12:22:00 AM
Bromobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-08

Client Sample ID: NEOCD 04 110210
 Collection Date: 11/2/2010 2:30:00 PM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Bromoform	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Bromomethane	ND	0.15		mg/Kg	1	11/7/2010 12:22:00 AM
2-Butanone	ND	0.50		mg/Kg	1	11/7/2010 12:22:00 AM
Carbon disulfide	ND	0.50		mg/Kg	1	11/7/2010 12:22:00 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
Chlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Chloroethane	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
Chloroform	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Chloromethane	ND	0.15		mg/Kg	1	11/7/2010 12:22:00 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Dibromomethane	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
2-Hexanone	ND	0.50		mg/Kg	1	11/7/2010 12:22:00 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/7/2010 12:22:00 AM
Methylene chloride	ND	0.15		mg/Kg	1	11/7/2010 12:22:00 AM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Styrene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-08

Client Sample ID: NEOCD 04 110210
Collection Date: 11/2/2010 2:30:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
Vinyl chloride	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
Surr: 1,2-Dichloroethane-d4	98.1	77.8-97.5	S	%REC	1	11/7/2010 12:22:00 AM
Surr: 4-Bromofluorobenzene	95.2	82.2-105		%REC	1	11/7/2010 12:22:00 AM
Surr: Dibromofluoromethane	99.9	63.7-133		%REC	1	11/7/2010 12:22:00 AM
Surr: Toluene-d8	103	87.2-105		%REC	1	11/7/2010 12:22:00 AM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Page 40 of 56

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-09

Client Sample ID: BD 1 110210
Collection Date: 11/2/2010
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Surr: Decachlorobiphenyl	86.4	16.9-111		%REC	1	11/6/2010 7:04:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	5.4	3.0		mg/Kg	10	11/16/2010 7:45:41 AM
Chloride	390	15		mg/Kg	10	11/16/2010 7:45:41 AM
Nitrogen, Nitrate (As N)	4.7	3.0		mg/Kg	10	11/16/2010 7:45:41 AM
Sulfate	650	15		mg/Kg	10	11/16/2010 7:45:41 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:47:39 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 11:17:36 AM
Barium	340	1.0		mg/Kg	10	11/18/2010 11:18:44 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 11:17:36 AM
Chromium	16	1.5		mg/Kg	5	11/17/2010 11:17:36 AM
Copper	4.0	1.5		mg/Kg	5	11/17/2010 11:17:36 AM
Iron	15000	500		mg/Kg	500	11/18/2010 1:00:36 PM
Lead	4.9	1.3		mg/Kg	5	11/17/2010 11:17:36 AM
Manganese	350	1.0		mg/Kg	10	11/18/2010 11:18:44 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 11:17:36 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 11:17:36 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 11:18:44 AM
Zinc	23	13		mg/Kg	5	11/17/2010 11:17:36 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-09

Client Sample ID: BD 1 110210
Collection Date: 11/2/2010
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 5:46:53 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 5:46:53 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 5:46:53 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 5:46:53 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 5:46:53 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 5:46:53 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-09

Client Sample ID: BD 1 110210
Collection Date: 11/2/2010
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 5:46:53 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 5:46:53 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Surr: 2,4,6-Tribromophenol	58.3	32.2-125		%REC	1	11/11/2010 5:46:53 PM
Surr: 2-Fluorobiphenyl	57.2	29.8-137		%REC	1	11/11/2010 5:46:53 PM
Surr: 2-Fluorophenol	58.1	22.6-131		%REC	1	11/11/2010 5:46:53 PM
Surr: 4-Terphenyl-d14	55.2	23.8-110		%REC	1	11/11/2010 5:46:53 PM
Surr: Nitrobenzene-d5	67.0	29.5-130		%REC	1	11/11/2010 5:46:53 PM
Surr: Phenol-d5	61.3	25.5-127		%REC	1	11/11/2010 5:46:53 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Toluene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Naphthalene	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/7/2010 12:50:17 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/7/2010 12:50:17 AM
Acetone	ND	0.75		mg/Kg	1	11/7/2010 12:50:17 AM
Bromobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-09

Client Sample ID: BD 1 110210
Collection Date: 11/2/2010
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Bromoform	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Bromomethane	ND	0.15		mg/Kg	1	11/7/2010 12:50:17 AM
2-Butanone	ND	0.50		mg/Kg	1	11/7/2010 12:50:17 AM
Carbon disulfide	ND	0.50		mg/Kg	1	11/7/2010 12:50:17 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
Chlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Chloroethane	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
Chloroform	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Chloromethane	ND	0.15		mg/Kg	1	11/7/2010 12:50:17 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Dibromomethane	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
2-Hexanone	ND	0.50		mg/Kg	1	11/7/2010 12:50:17 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/7/2010 12:50:17 AM
Methylene chloride	ND	0.15		mg/Kg	1	11/7/2010 12:50:17 AM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Styrene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-09

Client Sample ID: BD 1 110210
 Collection Date: 11/2/2010
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
Vinyl chloride	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Xylenes, Total	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
Surr: 1,2-Dichloroethane-d4	97.4	77.8-97.5		%REC	1	11/7/2010 12:50:17 AM
Surr: 4-Bromofluorobenzene	94.9	82.2-105		%REC	1	11/7/2010 12:50:17 AM
Surr: Dibromofluoromethane	98.1	63.7-133		%REC	1	11/7/2010 12:50:17 AM
Surr: Toluene-d8	97.0	87.2-105		%REC	1	11/7/2010 12:50:17 AM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-10

Client Sample ID: FB 1100210
 Collection Date: 11/2/2010 2:55:00 PM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Toluene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Ethylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Naphthalene	ND	2.0		µg/L	1	11/4/2010 4:27:43 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/4/2010 4:27:43 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/4/2010 4:27:43 AM
Acetone	ND	10		µg/L	1	11/4/2010 4:27:43 AM
Bromobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Bromoform	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Bromomethane	ND	3.0		µg/L	1	11/4/2010 4:27:43 AM
2-Butanone	ND	10		µg/L	1	11/4/2010 4:27:43 AM
Carbon disulfide	ND	10		µg/L	1	11/4/2010 4:27:43 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Chlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Chloroethane	ND	2.0		µg/L	1	11/4/2010 4:27:43 AM
Chloroform	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Chloromethane	ND	3.0		µg/L	1	11/4/2010 4:27:43 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
cis-1,2-DCE	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/4/2010 4:27:43 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Dibromomethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/4/2010 4:27:43 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-10

Client Sample ID: FB 1100210
Collection Date: 11/2/2010 2:55:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
2-Hexanone	ND	10		µg/L	1	11/4/2010 4:27:43 AM
Isopropylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/4/2010 4:27:43 AM
Methylene Chloride	ND	3.0		µg/L	1	11/4/2010 4:27:43 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
n-Propylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
sec-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Styrene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
tert-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/4/2010 4:27:43 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/4/2010 4:27:43 AM
Vinyl chloride	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Xylenes, Total	ND	1.5		µg/L	1	11/4/2010 4:27:43 AM
Surr: 1,2-Dichloroethane-d4	102	77.7-113		%REC	1	11/4/2010 4:27:43 AM
Surr: 4-Bromofluorobenzene	105	76.4-106		%REC	1	11/4/2010 4:27:43 AM
Surr: Dibromofluoromethane	111	91.6-125		%REC	1	11/4/2010 4:27:43 AM
Surr: Toluene-d8	94.4	92.3-107		%REC	1	11/4/2010 4:27:43 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-11

Client Sample ID: EB 110210
 Collection Date: 11/2/2010 2:50:00 PM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Toluene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Ethylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Naphthalene	ND	2.0		µg/L	1	11/4/2010 4:53:47 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/4/2010 4:53:47 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/4/2010 4:53:47 AM
Acetone	ND	10		µg/L	1	11/4/2010 4:53:47 AM
Bromobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Bromoform	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Bromomethane	ND	3.0		µg/L	1	11/4/2010 4:53:47 AM
2-Butanone	ND	10		µg/L	1	11/4/2010 4:53:47 AM
Carbon disulfide	ND	10		µg/L	1	11/4/2010 4:53:47 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Chlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Chloroethane	ND	2.0		µg/L	1	11/4/2010 4:53:47 AM
Chloroform	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Chloromethane	ND	3.0		µg/L	1	11/4/2010 4:53:47 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
cis-1,2-DCE	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/4/2010 4:53:47 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Dibromomethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/4/2010 4:53:47 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-11

Client Sample ID: EB 110210
 Collection Date: 11/2/2010 2:50:00 PM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
2-Hexanone	ND	10		µg/L	1	11/4/2010 4:53:47 AM
Isopropylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/4/2010 4:53:47 AM
Methylene Chloride	ND	3.0		µg/L	1	11/4/2010 4:53:47 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
n-Propylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
sec-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Styrene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
tert-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/4/2010 4:53:47 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/4/2010 4:53:47 AM
Vinyl chloride	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Xylenes, Total	ND	1.5		µg/L	1	11/4/2010 4:53:47 AM
Surr: 1,2-Dichloroethane-d4	105	77.7-113		%REC	1	11/4/2010 4:53:47 AM
Surr: 4-Bromofluorobenzene	109	76.4-106	S	%REC	1	11/4/2010 4:53:47 AM
Surr: Dibromofluoromethane	109	91.6-125		%REC	1	11/4/2010 4:53:47 AM
Surr: Toluene-d8	97.3	92.3-107		%REC	1	11/4/2010 4:53:47 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-12

Client Sample ID: NEOCD Closure 110210
Collection Date: 11/2/2010 2:40:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: SCC
Aroclor 1016	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Aroclor 1221	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Aroclor 1232	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Aroclor 1242	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Aroclor 1248	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Aroclor 1254	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Aroclor 1260	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Surr: Decachlorobiphenyl	82.0	16.9-111		%REC	1	11/6/2010 7:51:05 PM
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	210	10		mg/Kg	1	11/6/2010 12:28:03 PM
Motor Oil Range Organics (MRO)	82	50		mg/Kg	1	11/6/2010 12:28:03 PM
Surr: DNOP	114	61.7-135		%REC	1	11/6/2010 12:28:03 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/10/2010 10:04:09 PM
Surr: BFB	105	93.1-120		%REC	1	11/10/2010 10:04:09 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	8.9	6.0		mg/Kg	20	11/16/2010 8:03:06 AM
Chloride	100	30		mg/Kg	20	11/16/2010 8:03:06 AM
Nitrogen, Nitrate (As N)	14	6.0		mg/Kg	20	11/16/2010 8:03:06 AM
Sulfate	670	30		mg/Kg	20	11/16/2010 8:03:06 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:49:29 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	11/17/2010 11:25:20 AM
Barium	300	1.0		mg/Kg	10	11/18/2010 11:26:53 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 11:25:20 AM
Chromium	15	1.5		mg/Kg	5	11/17/2010 11:25:20 AM
Copper	3.6	1.5		mg/Kg	5	11/17/2010 11:25:20 AM
Iron	16000	500		mg/Kg	500	11/18/2010 1:03:26 PM
Lead	8.4	1.3		mg/Kg	5	11/17/2010 11:25:20 AM
Manganese	460	1.0		mg/Kg	10	11/18/2010 11:26:53 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 11:25:20 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 11:25:20 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 11:26:53 AM
Zinc	24	13		mg/Kg	5	11/17/2010 11:25:20 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-12

Client Sample ID: NEOCD Closure 110210
Collection Date: 11/2/2010 2:40:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 6:16:23 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 6:16:23 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 6:16:23 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 6:16:23 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 6:16:23 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 6:16:23 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-12

Client Sample ID: NEOCD Closure 110210
Collection Date: 11/2/2010 2:40:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 6:16:23 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 6:16:23 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Surr: 2,4,6-Tribromophenol	78.1	32.2-125		%REC	1	11/11/2010 6:16:23 PM
Surr: 2-Fluorobiphenyl	82.4	29.8-137		%REC	1	11/11/2010 6:16:23 PM
Surr: 2-Fluorophenol	86.2	22.6-131		%REC	1	11/11/2010 6:16:23 PM
Surr: 4-Terphenyl-d14	90.2	23.8-110		%REC	1	11/11/2010 6:16:23 PM
Surr: Nitrobenzene-d5	94.0	29.5-130		%REC	1	11/11/2010 6:16:23 PM
Surr: Phenol-d5	97.8	25.5-127		%REC	1	11/11/2010 6:16:23 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Toluene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-12

Client Sample ID: NEOCD Closure 110210
Collection Date: 11/2/2010 2:40:00 PM
Date Received: 11/3/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Naphthalene	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/7/2010 1:18:38 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/7/2010 1:18:38 AM
Acetone	ND	0.75		mg/Kg	1	11/7/2010 1:18:38 AM
Bromobenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Bromoform	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Bromomethane	ND	0.15		mg/Kg	1	11/7/2010 1:18:38 AM
2-Butanone	ND	0.50		mg/Kg	1	11/7/2010 1:18:38 AM
Carbon disulfide	ND	0.50		mg/Kg	1	11/7/2010 1:18:38 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
Chlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Chloroethane	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
Chloroform	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Chloromethane	ND	0.15		mg/Kg	1	11/7/2010 1:18:38 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Dibromomethane	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
2-Hexanone	ND	0.50		mg/Kg	1	11/7/2010 1:18:38 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/7/2010 1:18:38 AM
Methylene chloride	ND	0.15		mg/Kg	1	11/7/2010 1:18:38 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1011126
 Project: OCD Landfarms
 Lab ID: 1011126-12

Client Sample ID: NEOCD Closure 110210
 Collection Date: 11/2/2010 2:40:00 PM
 Date Received: 11/3/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Styrene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
Vinyl chloride	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Xylenes, Total	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
Surr: 1,2-Dichloroethane-d4	93.5	77.8-97.5		%REC	1	11/7/2010 1:18:38 AM
Surr: 4-Bromofluorobenzene	94.2	82.2-105		%REC	1	11/7/2010 1:18:38 AM
Surr: Dibromofluoromethane	98.1	63.7-133		%REC	1	11/7/2010 1:18:38 AM
Surr: Toluene-d8	96.1	87.2-105		%REC	1	11/7/2010 1:18:38 AM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	90	20		mg/Kg	1	11/5/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-13

Client Sample ID: Trip Blank
Collection Date:
Date Received: 11/3/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Toluene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Ethylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Naphthalene	ND	2.0		µg/L	1	11/4/2010 5:19:50 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/4/2010 5:19:50 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/4/2010 5:19:50 AM
Acetone	ND	10		µg/L	1	11/4/2010 5:19:50 AM
Bromobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Bromoform	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Bromomethane	ND	3.0		µg/L	1	11/4/2010 5:19:50 AM
2-Butanone	ND	10		µg/L	1	11/4/2010 5:19:50 AM
Carbon disulfide	ND	10		µg/L	1	11/4/2010 5:19:50 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Chlorobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Chloroethane	ND	2.0		µg/L	1	11/4/2010 5:19:50 AM
Chloroform	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Chloromethane	ND	3.0		µg/L	1	11/4/2010 5:19:50 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
cis-1,2-DCE	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/4/2010 5:19:50 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Dibromomethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/4/2010 5:19:50 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Dec-10

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1011126
Project: OCD Landfarms
Lab ID: 1011126-13

Client Sample ID: Trip Blank
Collection Date:
Date Received: 11/3/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
2-Hexanone	ND	10		µg/L	1	11/4/2010 5:19:50 AM
Isopropylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/4/2010 5:19:50 AM
Methylene Chloride	ND	3.0		µg/L	1	11/4/2010 5:19:50 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
n-Propylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
sec-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Styrene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
tert-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/4/2010 5:19:50 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/4/2010 5:19:50 AM
Vinyl chloride	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Xylenes, Total	ND	1.5		µg/L	1	11/4/2010 5:19:50 AM
Surr: 1,2-Dichloroethane-d4	108	77.7-113		%REC	1	11/4/2010 5:19:50 AM
Surr: 4-Bromofluorobenzene	102	76.4-106		%REC	1	11/4/2010 5:19:50 AM
Surr: Dibromofluoromethane	113	91.6-125		%REC	1	11/4/2010 5:19:50 AM
Surr: Toluene-d8	97.2	92.3-107		%REC	1	11/4/2010 5:19:50 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

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



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-001
Client Sample ID 1011126-01C, CentralOCD 01 110210

Report Date: 12/08/10
Collection Date: 11/02/10 10:15
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 14:50 / kjp
RADIONUCLIDES							
Radium 226	0.4	pCi/g-dry			E903.0		12/08/10 12:18 / eli-ca
Radium 226 precision (±)	0.1	pCi/g-dry			E903.0		12/08/10 12:18 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry			E903.0		12/08/10 12:18 / eli-ca
Radium 228	1.1	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.5	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 MDC	0.8	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-002
Client Sample ID 1011126-02C, Central OCD 02 110210

Report Date: 12/08/10
Collection Date: 11/02/10 11:20
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 14:52 / kjp
RADIONUCLIDES							
Radium 226	0.04	pCi/g-dry				E903.0	12/06/10 12:18 / eli-ca
Radium 226 precision (±)	0.007	pCi/g-dry				E903.0	12/06/10 12:18 / eli-ca
Radium 226 MDC	0.008	pCi/g-dry				E903.0	12/06/10 12:18 / eli-ca
Radium 228	0.04	pCi/g-dry	U			RA-05	11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.03	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca
Radium 228 MDC	0.04	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-003
Client Sample ID 1011126-03C, CentralOCD 03 110210

Report Date: 12/08/10
Collection Date: 11/02/10 11:45
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:05 / kjp
RADIONUCLIDES							
Radium 226	0.5	pCi/g-dry			E903.0		12/06/10 12:18 / eli-ca
Radium 226 precision (±)	0.1	pCi/g-dry			E903.0		12/06/10 12:18 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry			E903.0		12/06/10 12:18 / eli-ca
Radium 228	0.9	pCi/g-dry	U		RA-05		11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.6	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 MDC	0.9	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



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Gallatin, WY 888-888-7175 • Rapid City, SD 888-872-1225 • College Station, TX 888-880-2218

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-004
Client Sample ID 1011126-04C, CentralOCD 04 110210

Report Date: 12/08/10
Collection Date: 11/02/10 12:10
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:07 / kjp
RADIONUCLIDES							
Radium 226	0.8	pCi/g-dry				E903.0	12/06/10 12:18 / eli-ca
Radium 226 precision (±)	0.1	pCi/g-dry				E903.0	12/06/10 12:18 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry				E903.0	12/06/10 12:18 / eli-ca
Radium 228	0.8	pCi/g-dry	U			RA-05	11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.5	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca
Radium 228 MDC	0.8	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-005
Client Sample ID 1011126-05C, NEOCD 01 110210

Report Date: 12/08/10
Collection Date: 11/02/10 13:15
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:08 / kjp
RADIONUCLIDES							
Radium 226	0.8	pCi/g-dry			E903.0		12/06/10 12:18 / eli-ca
Radium 226 precision (±)	0.2	pCi/g-dry			E903.0		12/06/10 12:18 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry			E903.0		12/06/10 12:18 / eli-ca
Radium 228	1.5	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.6	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 MDC	0.8	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-006
Client Sample ID 1011126-06C, NEOCD 02 110210

Report Date: 12/08/10
Collection Date: 11/02/10 13:40
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:10 / kjp
RADIONUCLIDES							
Radium 226	0.6	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 226 precision (±)	0.2	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 228	1.5	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.6	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 MDC	0.9	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-007
Client Sample ID 1011126-07C, NEOCD 03 1102010

Report Date: 12/08/10
Collection Date: 11/02/10 14:00
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:12 / kjp
RADIONUCLIDES							
Radium 226	0.6	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 226 precision (±)	0.2	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 228	1.4	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.6	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 MDC	0.9	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-008
Client Sample ID 1011126-08C, NEOCD 04 110210

Report Date: 12/08/10
Collection Date: 11/02/10 14:30
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:14 / kjp
RADIONUCLIDES							
Radium 226	0.6	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 226 precision (±)	0.2	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 228	1.1	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.6	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 MDC	0.9	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-009
Client Sample ID 1011126-09C, BD 1 110210

Report Date: 12/08/10
Collection Date: 11/02/10
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:16 / kjp
RADIONUCLIDES							
Radium 226	0.6	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 226 precision (±)	0.2	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry			E903.0		12/06/10 13:49 / eli-ca
Radium 228	0.8	pCi/g-dry	U		RA-05		11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.5	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca
Radium 228 MDC	0.8	pCi/g-dry			RA-05		11/29/10 12:52 / eli-ca

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-010
Client Sample ID 1011126-12C, NEOCD Closure 110210

Report Date: 12/08/10
Collection Date: 11/02/10 14:40
Date Received: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:18 / kjp
RADIONUCLIDES							
Radium 226	0.5	pCi/g-dry				E903.0	12/06/10 13:49 / eli-ca
Radium 226 precision (±)	0.1	pCi/g-dry				E903.0	12/06/10 13:49 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry				E903.0	12/06/10 13:49 / eli-ca
Radium 228	1	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.6	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca
Radium 228 MDC	0.9	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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QA/QC Summary Report

Client: Hall Environmental
Project: 1011126

Report Date: 12/08/10
Work Order: B10110548

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: C_R140653
Sample ID: B10110548-002A		Sample Matrix Spike				Run: SUB-C140653				12/06/10 12:18
Radium 226	14	pCi/g-dry		98		70	130			
Sample ID: B10110548-002A		Sample Matrix Spike Duplicate				Run: SUB-C140653				12/06/10 12:18
Radium 226	15	pCi/g-dry		103		70	130	8.6	21.3	
Sample ID: LCS-28206		Laboratory Control Sample				Run: SUB-C140653				12/06/10 12:18
Radium 226	1.4	pCi/g-dry		94		70	130			
Sample ID: MB-28206	3	Method Blank				Run: SUB-C140653				12/06/10 12:18
Radium 226		-0.0001	pCi/g-dry							U
Radium 226 precision (±)		0.0001	pCi/g-dry							
Radium 226 MDC		0.0002	pCi/g-dry							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



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QA/QC Summary Report

Client: Hall Environmental
Project: 1011126

Report Date: 12/08/10
Work Order: B10110548

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: C_28206
Sample ID: LCS-28206		Laboratory Control Sample					Run: SUB-C140336			11/29/10 12:52
Radium 228		1.3	pCi/g-dry	98		70	130			
Sample ID: MB-28206	3	Method Blank					Run: SUB-C140336			11/29/10 12:52
Radium 228		0.0007	pCi/g-dry							U
Radium 228 precision ($\pm$)		0.001	pCi/g-dry							
Radium 228 MDC		0.002	pCi/g-dry							
Sample ID: B10110548-002A		Sample Matrix Spike					Run: SUB-C140336			11/29/10 12:52
Radium 228		13	pCi/g-dry	107		70	130			
Sample ID: B10110548-002A		Sample Matrix Spike Duplicate					Run: SUB-C140336			11/29/10 12:52
Radium 228		13	pCi/g-dry	102		70	130	1.4	31.6	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



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QA/QC Summary Report

Client: Hall Environmental
Project: 1011126

Report Date: 12/08/10
Work Order: B10110548

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW9012										Batch: 50380
Sample ID: LCS-50380		Laboratory Control Sample					Run: AUTOAN201-B_101109A			11/09/10 14:09
Cyanide, Total		5.15	mg/kg	0.50	103	60	140			
Sample ID: MB-50380		Method Blank					Run: AUTOAN201-B_101109A			11/09/10 14:14
Cyanide, Total		ND	mg/kg	0.5						
Sample ID: B10110548-002AMS		Sample Matrix Spike					Run: AUTOAN201-B_101109A			11/09/10 14:54
Cyanide, Total		5.26	mg/kg	0.50	105	50	150			
Sample ID: B10110548-002AMSD		Sample Matrix Spike					Run: AUTOAN201-B_101109A			11/09/10 14:56
Cyanide, Total		5.30	mg/kg	0.50	106	50	150			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: 1011126-02AMSD		MSD				Batch ID: 24525	Analysis Date: 11/16/2010 4:51:35 AM				
Fluoride	3.751	mg/Kg	0.30	1.5	2.856	59.7	13.2	140	2.31	20	
Nitrogen, Nitrate (As N)	14.49	mg/Kg	0.30	7.5	6.261	110	71.4	132	5.04	20	
Sample ID: MB-24525		MBLK				Batch ID: 24525	Analysis Date: 11/16/2010 3:07:07 AM				
Fluoride	ND	mg/Kg	0.30								
Chloride	ND	mg/Kg	1.5								
Nitrogen, Nitrate (As N)	ND	mg/Kg	0.30								
Sulfate	ND	mg/Kg	1.5								
Sample ID: LCS-24525		LCS				Batch ID: 24525	Analysis Date: 11/16/2010 3:24:31 AM				
Fluoride	1.549	mg/Kg	0.30	1.5	0	103	90	110			
Chloride	13.53	mg/Kg	1.5	15	0	90.2	90	110			
Nitrogen, Nitrate (As N)	6.924	mg/Kg	0.30	7.5	0	92.3	90	110			
Sulfate	27.55	mg/Kg	1.5	30	0	91.8	90	110			
Sample ID: 1011126-02AMS		MS				Batch ID: 24525	Analysis Date: 11/16/2010 4:34:10 AM				
Fluoride	3.665	mg/Kg	0.30	1.5	2.856	54.0	13.2	140			
Nitrogen, Nitrate (As N)	13.77	mg/Kg	0.30	7.5	6.261	100	71.4	132			
Method: EPA Method 418.1: TPH											
Sample ID: 1011126-02BMSD		MSD				Batch ID: 24385	Analysis Date: 11/5/2010				
Petroleum Hydrocarbons, TR	91.18	mg/Kg	20	100	0	91.2	80	120	3.19	20	
Sample ID: MB-24385		MBLK				Batch ID: 24385	Analysis Date: 11/5/2010				
Petroleum Hydrocarbons, TR	ND	mg/Kg	20								
Sample ID: LCS-24385		LCS				Batch ID: 24385	Analysis Date: 11/5/2010				
Petroleum Hydrocarbons, TR	96.90	mg/Kg	20	100	0	96.9	86.8	116			
Sample ID: LCSD-24385		LCSD				Batch ID: 24385	Analysis Date: 11/5/2010				
Petroleum Hydrocarbons, TR	98.32	mg/Kg	20	100	0	98.3	86.8	116	1.45	16.2	
Sample ID: 1011126-02BMS		MS				Batch ID: 24385	Analysis Date: 11/5/2010				
Petroleum Hydrocarbons, TR	88.32	mg/Kg	20	100	0	88.3	80	120			
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-24372		MBLK				Batch ID: 24372	Analysis Date: 11/5/2010 5:35:45 PM				
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-24372		LCS				Batch ID: 24372	Analysis Date: 11/5/2010 6:09:52 PM				
Diesel Range Organics (DRO)	46.05	mg/Kg	10	50	0	92.1	64.6	116			
Sample ID: LCSD-24372		LCSD				Batch ID: 24372	Analysis Date: 11/5/2010 6:44:00 PM				
Diesel Range Organics (DRO)	45.70	mg/Kg	10	50	0	91.4	64.6	116	0.769	17.4	

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1011126-12B MSD		MSD									
Gasoline Range Organics (GRO)	25.20	mg/Kg	5.0	25	0	101	69.2	144	10.7	20.5	
Sample ID: MB-24378		MBLK									
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-24378		LCS									
Gasoline Range Organics (GRO)	25.68	mg/Kg	5.0	25	0	103	95.7	120			
Sample ID: 1011126-12B MS		MS									
Gasoline Range Organics (GRO)	28.05	mg/Kg	5.0	25	0	112	69.2	144			

Method: EPA Method 8082: PCB's											
Sample ID: 1011126-02BMSD		MSD									
Aroclor 1260	0.1255	mg/Kg	0.020	0.125	0	100	45	117	2.32	20	
Sample ID: MB-24367		MBLK									
Aroclor 1016	ND	mg/Kg	0.020								
Aroclor 1221	ND	mg/Kg	0.020								
Aroclor 1232	ND	mg/Kg	0.020								
Aroclor 1242	ND	mg/Kg	0.020								
Aroclor 1248	ND	mg/Kg	0.020								
Aroclor 1254	ND	mg/Kg	0.020								
Aroclor 1260	ND	mg/Kg	0.020								
Sample ID: LCS-24367		LCS									
Aroclor 1260	0.09900	mg/Kg	0.020	0.125	0	79.2	38.2	140			
Sample ID: 1011126-02BMS		MS									
Aroclor 1260	0.1284	mg/Kg	0.020	0.125	0	103	45	117			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: 1011126-02BMSD

MSD

Batch ID: 24378 Analysis Date: 11/7/2010 1:15:05 AM

Benzene	0.9250	mg/Kg	0.050	1	0	92.5	62.3	118	1.07	20
Toluene	0.9231	mg/Kg	0.050	1	0.0154	90.8	76.4	120	2.80	12.5
Chlorobenzene	0.9122	mg/Kg	0.050	1	0.0063	90.6	78.1	125	0.889	14
1,1-Dichloroethene	1.072	mg/Kg	0.050	1	0	107	60.9	128	1.92	30.9
Trichloroethene (TCE)	0.8648	mg/Kg	0.050	1	0	86.5	56.2	102	3.71	21.1

Sample ID: mb-24378

MBLK

Batch ID: 24378 Analysis Date: 11/7/2010 2:11:46 AM

Benzene	ND	mg/Kg	0.050
Toluene	ND	mg/Kg	0.050
Ethylbenzene	ND	mg/Kg	0.050
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.050
1,2,4-Trimethylbenzene	ND	mg/Kg	0.050
1,3,5-Trimethylbenzene	ND	mg/Kg	0.050
1,2-Dichloroethane (EDC)	ND	mg/Kg	0.050
1,2-Dibromoethane (EDB)	ND	mg/Kg	0.050
Naphthalene	ND	mg/Kg	0.10
1-Methylnaphthalene	ND	mg/Kg	0.20
2-Methylnaphthalene	ND	mg/Kg	0.20
Acetone	ND	mg/Kg	0.75
Bromobenzene	ND	mg/Kg	0.050
Bromodichloromethane	ND	mg/Kg	0.050
Bromoform	ND	mg/Kg	0.050
Bromomethane	ND	mg/Kg	0.15
2-Butanone	ND	mg/Kg	0.50
Carbon disulfide	ND	mg/Kg	0.50
Carbon tetrachloride	ND	mg/Kg	0.10
Chlorobenzene	ND	mg/Kg	0.050
Chloroethane	ND	mg/Kg	0.10
Chloroform	ND	mg/Kg	0.050
Chloromethane	ND	mg/Kg	0.15
2-Chlorotoluene	ND	mg/Kg	0.050
4-Chlorotoluene	ND	mg/Kg	0.050
cis-1,2-DCE	ND	mg/Kg	0.050
cis-1,3-Dichloropropene	ND	mg/Kg	0.050
1,2-Dibromo-3-chloropropane	ND	mg/Kg	0.10
Dibromochloromethane	ND	mg/Kg	0.050
Dibromomethane	ND	mg/Kg	0.10
1,2-Dichlorobenzene	ND	mg/Kg	0.050
1,3-Dichlorobenzene	ND	mg/Kg	0.050
1,4-Dichlorobenzene	ND	mg/Kg	0.050
Dichlorodifluoromethane	ND	mg/Kg	0.050
1,1-Dichloroethane	ND	mg/Kg	0.10
1,1-Dichloroethene	ND	mg/Kg	0.050
1,2-Dichloropropane	ND	mg/Kg	0.050
1,3-Dichloropropane	ND	mg/Kg	0.050

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: mb-24378

MBLK

Batch ID: 24378 Analysis Date: 11/7/2010 2:11:46 AM

2,2-Dichloropropane	ND	mg/Kg	0.10
1,1-Dichloropropene	ND	mg/Kg	0.10
Hexachlorobutadiene	ND	mg/Kg	0.10
2-Hexanone	ND	mg/Kg	0.50
Isopropylbenzene	ND	mg/Kg	0.050
4-Isopropyltoluene	ND	mg/Kg	0.050
4-Methyl-2-pentanone	ND	mg/Kg	0.50
Methylene chloride	ND	mg/Kg	0.15
n-Butylbenzene	ND	mg/Kg	0.050
n-Propylbenzene	ND	mg/Kg	0.050
sec-Butylbenzene	ND	mg/Kg	0.050
Styrene	ND	mg/Kg	0.050
tert-Butylbenzene	ND	mg/Kg	0.050
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.050
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.050
Tetrachloroethene (PCE)	ND	mg/Kg	0.050
trans-1,2-DCE	ND	mg/Kg	0.050
trans-1,3-Dichloropropene	ND	mg/Kg	0.050
1,2,3-Trichlorobenzene	ND	mg/Kg	0.10
1,2,4-Trichlorobenzene	ND	mg/Kg	0.050
1,1,1-Trichloroethane	ND	mg/Kg	0.050
1,1,2-Trichloroethane	ND	mg/Kg	0.050
Trichloroethene (TCE)	ND	mg/Kg	0.050
Trichlorofluoromethane	ND	mg/Kg	0.050
1,2,3-Trichloropropane	ND	mg/Kg	0.10
Vinyl chloride	ND	mg/Kg	0.050
Xylenes, Total	ND	mg/Kg	0.10

Sample ID: lcs-24378

LCS

Batch ID: 24378 Analysis Date: 11/7/2010 1:43:27 AM

Benzene	1.009	mg/Kg	0.050	1	0	101	73.3	116
Toluene	1.012	mg/Kg	0.050	1	0	101	90.5	117
Chlorobenzene	1.033	mg/Kg	0.050	1	0.0068	103	93.6	113
1,1-Dichloroethene	1.158	mg/Kg	0.050	1	0	116	68.4	131
Trichloroethene (TCE)	0.9131	mg/Kg	0.050	1	0	91.3	64.6	100

Sample ID: 1011126-02BMS

MS

Batch ID: 24378 Analysis Date: 11/7/2010 1:46:47 AM

Benzene	0.9152	mg/Kg	0.050	1	0	91.5	62.3	118
Toluene	0.8976	mg/Kg	0.050	1	0.0154	88.2	76.4	120
Chlorobenzene	0.9041	mg/Kg	0.050	1	0.0063	89.8	78.1	125
1,1-Dichloroethene	1.052	mg/Kg	0.050	1	0	105	60.9	128
Trichloroethene (TCE)	0.8333	mg/Kg	0.050	1	0	83.3	56.2	102

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: b5

MBLK

Batch ID: R41938 Analysis Date: 11/3/2010 9:04:01 PM

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0
1,2,4-Trimethylbenzene	ND	µg/L	1.0
1,3,5-Trimethylbenzene	ND	µg/L	1.0
1,2-Dichloroethane (EDC)	ND	µg/L	1.0
1,2-Dibromoethane (EDB)	ND	µg/L	1.0
Naphthalene	ND	µg/L	2.0
1-Methylnaphthalene	ND	µg/L	4.0
2-Methylnaphthalene	ND	µg/L	4.0
Acetone	ND	µg/L	10
Bromobenzene	ND	µg/L	1.0
Bromodichloromethane	ND	µg/L	1.0
Bromoform	ND	µg/L	1.0
Bromomethane	ND	µg/L	3.0
2-Butanone	ND	µg/L	10
Carbon disulfide	ND	µg/L	10
Carbon Tetrachloride	ND	µg/L	1.0
Chlorobenzene	ND	µg/L	1.0
Chloroethane	ND	µg/L	2.0
Chloroform	ND	µg/L	1.0
Chloromethane	ND	µg/L	3.0
2-Chlorotoluene	ND	µg/L	1.0
4-Chlorotoluene	ND	µg/L	1.0
cis-1,2-DCE	ND	µg/L	1.0
cis-1,3-Dichloropropene	ND	µg/L	1.0
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0
Dibromochloromethane	ND	µg/L	1.0
Dibromomethane	ND	µg/L	1.0
1,2-Dichlorobenzene	ND	µg/L	1.0
1,3-Dichlorobenzene	ND	µg/L	1.0
1,4-Dichlorobenzene	ND	µg/L	1.0
Dichlorodifluoromethane	ND	µg/L	1.0
1,1-Dichloroethane	ND	µg/L	1.0
1,1-Dichloroethene	ND	µg/L	1.0
1,2-Dichloropropane	ND	µg/L	1.0
1,3-Dichloropropane	ND	µg/L	1.0
2,2-Dichloropropane	ND	µg/L	2.0
1,1-Dichloropropene	ND	µg/L	1.0
Hexachlorobutadiene	ND	µg/L	1.0
2-Hexanone	ND	µg/L	10
Isopropylbenzene	ND	µg/L	1.0
4-Isopropyltoluene	ND	µg/L	1.0

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: b5

MBLK

Batch ID: R41938 Analysis Date: 11/3/2010 9:04:01 PM

4-Methyl-2-pentanone	ND	µg/L	10
Methylene Chloride	ND	µg/L	3.0
n-Butylbenzene	ND	µg/L	1.0
n-Propylbenzene	ND	µg/L	1.0
sec-Butylbenzene	ND	µg/L	1.0
Styrene	ND	µg/L	1.0
tert-Butylbenzene	ND	µg/L	1.0
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0
Tetrachloroethene (PCE)	ND	µg/L	1.0
trans-1,2-DCE	ND	µg/L	1.0
trans-1,3-Dichloropropene	ND	µg/L	1.0
1,2,3-Trichlorobenzene	ND	µg/L	1.0
1,2,4-Trichlorobenzene	ND	µg/L	1.0
1,1,1-Trichloroethane	ND	µg/L	1.0
1,1,2-Trichloroethane	ND	µg/L	1.0
Trichloroethene (TCE)	ND	µg/L	1.0
Trichlorofluoromethane	ND	µg/L	1.0
1,2,3-Trichloropropane	ND	µg/L	2.0
Vinyl chloride	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	1.5

Sample ID: 100ng lcs

LCS

Batch ID: R41938 Analysis Date: 11/3/2010 8:37:59 PM

Benzene	18.51	µg/L	1.0	20	0	92.5	84.6	109
Toluene	18.15	µg/L	1.0	20	0	90.7	81	114
Chlorobenzene	18.43	µg/L	1.0	20	0	92.1	85.2	113
1,1-Dichloroethene	17.36	µg/L	1.0	20	0	86.8	79.6	124
Trichloroethene (TCE)	18.03	µg/L	1.0	20	0	90.1	78.3	102

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8270C: Semivolatiles

Sample ID: 1011126-02Bmsd

MSD

Batch ID: 24447 Analysis Date: 11/11/2010 2:19:31 PM

Acenaphthene	1.395	mg/Kg	0.20	1.67	0	83.5	33.2	123	4.28	16.2	
4-Chloro-3-methylphenol	2.954	mg/Kg	0.50	3.33	0	88.7	17.4	119	10.7	20.2	
2-Chlorophenol	3.036	mg/Kg	0.20	3.33	0	91.2	25.3	117	8.96	30.6	
1,4-Dichlorobenzene	1.385	mg/Kg	0.20	1.67	0	83.0	24.6	111	3.01	20	
2,4-Dinitrotoluene	1.964	mg/Kg	0.50	1.67	0	118	29.4	137	5.55	30.7	
N-Nitrosodi-n-propylamine	1.385	mg/Kg	0.20	1.67	0	82.9	26.9	109	1.58	25.7	
4-Nitrophenol	3.494	mg/Kg	0.20	3.33	0	105	13.7	165	6.08	43.7	
Pentachlorophenol	2.770	mg/Kg	0.40	3.33	0	83.2	26.6	117	4.00	24.2	
Phenol	2.997	mg/Kg	0.20	3.33	0	90.0	26.6	105	5.04	29.5	
Pyrene	1.362	mg/Kg	0.20	1.67	0	81.6	25.8	117	1.55	32.1	
1,2,4-Trichlorobenzene	1.540	mg/Kg	0.20	1.67	0	92.2	30.8	119	5.80	19.5	

Sample ID: mb-24447

MBLK

Batch ID: 24447 Analysis Date: 11/11/2010 11:51:44 AM

Acenaphthene	ND	mg/Kg	0.20								
Acenaphthylene	ND	mg/Kg	0.20								
Aniline	ND	mg/Kg	0.20								
Anthracene	ND	mg/Kg	0.20								
Azobenzene	ND	mg/Kg	0.20								
Benz(a)anthracene	ND	mg/Kg	0.20								
Benzo(a)pyrene	ND	mg/Kg	0.20								
Benzo(b)fluoranthene	ND	mg/Kg	0.20								
Benzo(g,h,i)perylene	ND	mg/Kg	0.20								
Benzo(k)fluoranthene	ND	mg/Kg	0.20								
Benzoic acid	ND	mg/Kg	0.50								
Benzyl alcohol	ND	mg/Kg	0.20								
Bis(2-chloroethoxy)methane	ND	mg/Kg	0.20								
Bis(2-chloroethyl)ether	ND	mg/Kg	0.20								
Bis(2-chloroisopropyl)ether	ND	mg/Kg	0.20								
Bis(2-ethylhexyl)phthalate	ND	mg/Kg	0.50								
4-Bromophenyl phenyl ether	ND	mg/Kg	0.20								
Butyl benzyl phthalate	ND	mg/Kg	0.20								
Carbazole	ND	mg/Kg	0.20								
4-Chloro-3-methylphenol	ND	mg/Kg	0.50								
4-Chloroaniline	ND	mg/Kg	0.50								
2-Chloronaphthalene	ND	mg/Kg	0.25								
2-Chlorophenol	ND	mg/Kg	0.20								
4-Chlorophenyl phenyl ether	ND	mg/Kg	0.20								
Chrysene	ND	mg/Kg	0.20								
Di-n-butyl phthalate	ND	mg/Kg	0.50								
Di-n-octyl phthalate	ND	mg/Kg	0.25								
Dibenz(a,h)anthracene	ND	mg/Kg	0.20								
Dibenzofuran	ND	mg/Kg	0.20								
1,2-Dichlorobenzene	ND	mg/Kg	0.20								
1,3-Dichlorobenzene	ND	mg/Kg	0.20								
1,4-Dichlorobenzene	ND	mg/Kg	0.20								

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8270C: Semivolatiles

Sample ID: mb-24447

MBLK

Batch ID: 24447 Analysis Date: 11/11/2010 11:51:44 AM

3,3'-Dichlorobenzidine	ND	mg/Kg	0.25
Diethyl phthalate	ND	mg/Kg	0.20
Dimethyl phthalate	ND	mg/Kg	0.20
2,4-Dichlorophenol	ND	mg/Kg	0.40
2,4-Dimethylphenol	ND	mg/Kg	0.30
4,6-Dinitro-2-methylphenol	ND	mg/Kg	0.50
2,4-Dinitrophenol	ND	mg/Kg	0.40
2,4-Dinitrotoluene	ND	mg/Kg	0.50
2,6-Dinitrotoluene	ND	mg/Kg	0.50
Fluoranthene	ND	mg/Kg	0.20
Fluorene	ND	mg/Kg	0.20
Hexachlorobenzene	ND	mg/Kg	0.20
Hexachlorobutadiene	ND	mg/Kg	0.20
Hexachlorocyclopentadiene	ND	mg/Kg	0.20
Hexachloroethane	ND	mg/Kg	0.20
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.20
Isophorone	ND	mg/Kg	0.50
2-Methylnaphthalene	ND	mg/Kg	0.20
2-Methylphenol	ND	mg/Kg	0.50
3+4-Methylphenol	ND	mg/Kg	0.20
N-Nitrosodi-n-propylamine	ND	mg/Kg	0.20
N-Nitrosodiphenylamine	ND	mg/Kg	0.20
Naphthalene	ND	mg/Kg	0.20
2-Nitroaniline	ND	mg/Kg	0.20
3-Nitroaniline	ND	mg/Kg	0.20
4-Nitroaniline	ND	mg/Kg	0.40
Nitrobenzene	ND	mg/Kg	0.50
2-Nitrophenol	ND	mg/Kg	0.20
4-Nitrophenol	ND	mg/Kg	0.20
Pentachlorophenol	ND	mg/Kg	0.40
Phenanthrene	ND	mg/Kg	0.20
Phenol	ND	mg/Kg	0.20
Pyrene	ND	mg/Kg	0.20
Pyridine	ND	mg/Kg	0.50
1,2,4-Trichlorobenzene	ND	mg/Kg	0.20
2,4,5-Trichlorophenol	ND	mg/Kg	0.20
2,4,6-Trichlorophenol	ND	mg/Kg	0.20

Sample ID: lcs-24447

LCS

Batch ID: 24447 Analysis Date: 11/11/2010 12:21:16 PM

Acenaphthene	1.619	mg/Kg	0.20	3.34	0	48.5	40	106
4-Chloro-3-methylphenol	3.579	mg/Kg	0.50	6.66	0	53.7	31.9	112
2-Chlorophenol	3.441	mg/Kg	0.20	6.66	0	51.7	31.2	110
1,4-Dichlorobenzene	1.531	mg/Kg	0.20	3.34	0	45.8	32.5	105
2,4-Dinitrotoluene	2.364	mg/Kg	0.50	3.34	0	70.8	38.2	108
N-Nitrosodi-n-propylamine	1.516	mg/Kg	0.20	3.34	0	45.4	30.9	98.9

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: lcs-24447		LCS			Batch ID: 24447		Analysis Date: 11/11/2010 12:21:16 PM				
4-Nitrophenol	4.041	mg/Kg	0.20	6.66	0	60.7	32.4	114			
Pentachlorophenol	2.854	mg/Kg	0.40	6.66	0	42.9	30.4	101			
Phenol	3.182	mg/Kg	0.20	6.66	0	47.8	27.9	105			
Pyrene	1.860	mg/Kg	0.20	3.34	0	55.7	31.9	103			
1,2,4-Trichlorobenzene	1.655	mg/Kg	0.20	3.34	0	49.6	33.1	112			
Sample ID: 1011126-02Bms		MS			Batch ID: 24447		Analysis Date: 11/11/2010 1:49:50 PM				
Acenaphthene	1.456	mg/Kg	0.20	1.67	0	87.2	33.2	123			
4-Chloro-3-methylphenol	3.289	mg/Kg	0.50	3.33	0	98.8	17.4	119			
2-Chlorophenol	3.321	mg/Kg	0.20	3.33	0	99.7	25.3	117			
1,4-Dichlorobenzene	1.428	mg/Kg	0.20	1.67	0	85.5	24.6	111			
2,4-Dinitrotoluene	2.076	mg/Kg	0.50	1.67	0	124	29.4	137			
N-Nitrosodi-n-propylamine	1.407	mg/Kg	0.20	1.67	0	84.2	26.9	109			
4-Nitrophenol	3.713	mg/Kg	0.20	3.33	0	111	13.7	165			
Pentachlorophenol	2.883	mg/Kg	0.40	3.33	0	86.6	26.6	117			
Phenol	3.152	mg/Kg	0.20	3.33	0	94.7	26.6	105			
Pyrene	1.384	mg/Kg	0.20	1.67	0	82.9	25.8	117			
1,2,4-Trichlorobenzene	1.632	mg/Kg	0.20	1.67	0	97.7	30.8	119			
Method: EPA Method 7471: Mercury											
Sample ID: 1011126-02AMSD		MSD			Batch ID: 24471		Analysis Date: 11/11/2010 1:31:22 PM				
Mercury	0.3132	mg/Kg	0.033	0.167	0.035	167	75	125	37.7	20	SR
Sample ID: MB-24471		MBLK			Batch ID: 24471		Analysis Date: 11/11/2010 1:22:36 PM				
Mercury	ND	mg/Kg	0.033								
Sample ID: LCS-24471		LCS			Batch ID: 24471		Analysis Date: 11/11/2010 1:24:20 PM				
Mercury	0.1719	mg/Kg	0.033	0.167	0	103	80	120			
Sample ID: 1011126-02AMS		MS			Batch ID: 24471		Analysis Date: 11/11/2010 1:29:35 PM				
Mercury	0.2139	mg/Kg	0.033	0.167	0.035	107	75	125			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: OCD Landfarms

Work Order: 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 6010B: Soil Metals

Sample ID: 1011126-02AMSD

MSD

Batch ID: 24461

Analysis Date: 11/17/2010 10:08:42 AM

Arsenic	25.86	mg/Kg	13	24.7	3.856	89.1	75	125	6.43	20	
Cadmium	23.48	mg/Kg	0.50	24.7	0	95.1	75	125	2.04	20	
Chromium	39.77	mg/Kg	1.5	24.7	20.5	78.0	75	125	4.57	20	
Copper	42.36	mg/Kg	1.5	24.7	21.5	84.4	75	125	1.87	20	
Lead	29.70	mg/Kg	1.3	24.7	8.612	85.4	75	125	6.53	20	
Selenium	ND	mg/Kg	13	24.7	0	45.8	75	125	0	20	S
Silver	23.23	mg/Kg	1.3	24.7	0	94.0	75	125	2.51	20	
Zinc	92.41	mg/Kg	13	24.7	95.88	-14.1	75	125	16.9	20	S

Sample ID: MB-24461

MBLK

Batch ID: 24461

Analysis Date: 11/17/2010 9:12:03 AM

Arsenic	ND	mg/Kg	2.5								
Barium	ND	mg/Kg	0.10								
Cadmium	ND	mg/Kg	0.10								
Chromium	ND	mg/Kg	0.30								
Copper	ND	mg/Kg	0.30								
Iron	2.148	mg/Kg	1.0								
Lead	ND	mg/Kg	0.25								
Manganese	ND	mg/Kg	0.10								
Selenium	ND	mg/Kg	2.5								
Silver	ND	mg/Kg	0.25								
Uranium	ND	mg/Kg	5.0								
Zinc	ND	mg/Kg	2.5								

Sample ID: LCS-24461

LCS

Batch ID: 24461

Analysis Date: 11/17/2010 9:15:17 AM

Arsenic	25.47	mg/Kg	2.5	25	0	102	80	120			
Barium	24.11	mg/Kg	0.10	25	0	96.4	80	120			
Cadmium	24.34	mg/Kg	0.10	25	0	97.4	80	120			
Chromium	24.90	mg/Kg	0.30	25	0	99.6	80	120			
Copper	26.09	mg/Kg	0.30	25	0.0945	104	80	120			
Iron	28.43	mg/Kg	1.0	25	2.148	105	80	120			B
Lead	23.93	mg/Kg	0.25	25	0	95.7	80	120			
Manganese	24.24	mg/Kg	0.10	25	0	97.0	80	120			
Selenium	24.31	mg/Kg	2.5	25	0.925	93.5	80	120			
Silver	24.28	mg/Kg	0.25	25	0.0238	97.0	80	120			
Uranium	26.81	mg/Kg	5.0	25	0	107	80	120			
Zinc	24.83	mg/Kg	2.5	25	0.5498	97.1	80	120			

Sample ID: 1011126-02AMS

MS

Batch ID: 24461

Analysis Date: 11/17/2010 10:02:13 AM

Arsenic	27.58	mg/Kg	13	24.75	3.856	95.9	75	125			
Cadmium	23.00	mg/Kg	0.50	24.75	0	93.0	75	125			
Chromium	41.63	mg/Kg	1.5	24.75	20.5	85.4	75	125			
Copper	41.57	mg/Kg	1.5	24.75	21.5	81.1	75	125			
Lead	27.82	mg/Kg	1.3	24.75	8.612	77.6	75	125			
Selenium	ND	mg/Kg	13	24.75	0	42.0	75	125			S
Silver	22.65	mg/Kg	1.3	24.75	0	91.5	75	125			
Zinc	78.01	mg/Kg	13	24.75	95.88	-72.2	75	125			S

Qualifiers:

E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
NC Non-Chlorinated
R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU

Date Received:

11/3/2010

Work Order Number 1011126

Received by: AMF

Checklist completed by: [Signature] 11/3/10

Sample ID labels checked by:

Initials MT

Matrix:

Carrier name Client drop-off

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

Number of preserved bottles checked for pH:

Container/Temp Blank temperature?

2.4°

<6° C Acceptable

If given sufficient time to cool.

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

[illegible]

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request		Remarks	
BTEX + MTBE + TMBs (8021)	X		
BTEX + MTBE + TPH (Gas only)	X		
TPH Method 8015B (Gas/Diesel)	X		
TPH (Method 418.1)	X		
EDB (Method 504.1)			
8310 (PNA or PAH)			
RCRA 8 Metals			
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)			
8081 Pesticides / 8082 PCB's			
8260B (VOA)			
8270 (Semi-VOA)			
Chlorides	X		
NMC 115T (attached)	X		
Air Bubbles (Y or N)			

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

Chavez, Carl J, EMNRD

From: Riege, Ed [Ed.Riege@wnr.com]
Sent: Tuesday, December 07, 2010 4:37 PM
To: Van Horn, Kristen, NMENV; Kieling, John, NMENV
Cc: Chavez, Carl J, EMNRD; Regina Mitchell
Subject: NOD Land Treatment unit Post Closure Sampling Event Repsonse
Attachments: 20101207163346829.pdf

Kristen,
The Gallup refinery would like to request an extension from December 10, 2010 until December 23, 2010 to address all comments contained in the attached NOD. The reason for the extension request is given below. Thanks for your consideration.

Ed Riege

Ed Riege
Environmental Manager

Western Refining
Gallup Refinery
Route 3 Box 7
Gallup, NM 87301
(505) 722-0217
ed.riege@wnr.com

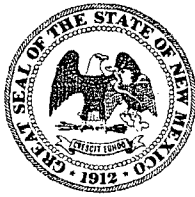
From: Regina Mitchell [<mailto:rmitchell@trihydro.com>]
Sent: Tuesday, December 07, 2010 11:11 AM
To: Riege, Ed
Cc: Eric Worden
Subject: LTU 9 year report Extension request

Ed,

In regards to our conversation yesterday. I would like to request an extension for the 9-year LTU Report. Our primary author (Grant) and project lead has suffered a serious medical condition. We have been working to complete the report in his absence, however, we need a little more time to determine where he left off and what his path forward was. He will be available next week for some consultation. Thus, we would like to request an extension until December 23rd.

Let us know if NMED is amenable to this extension. In the meantime, we will continue to work on providing a thorough and complete 9-year report suitable for submission to NMED.

Thank you for understanding,
Regina



BILL RICHARDSON
Governor

DIANE DENISH
Lieutenant Governor

**NEW MEXICO
ENVIRONMENT DEPARTMENT**

Hazardous Waste Bureau

2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303
Phone (505) 476-6000 Fax (505) 476-6030
www.nmenv.state.nm.us



RON CURRY
Secretary

SARAH COTTRELL
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

August 18, 2010

Mr. Ed Riege
Environmental Manager
Western Refining, Southwest Inc., Gallup Refinery
Route 3, Box 7
Gallup, New Mexico 87301

**RE: NOTICE OF DISAPPROVAL
LAND TREATMENT UNIT POST CLOSURE SAMPLING EVENT
WESTERN REFINING COMPANY SOUTHWEST INC., GALLUP REFINERY
EPA ID # NMD000333211
HWB-WRG-10-005**

Dear Mr. Riege:

The New Mexico Environment Department (NMED) has completed its review of the *Land Treatment Unit Post Closure Sampling Event* (Report), dated March 2010, submitted on behalf of Western Refining Company Southwest Inc., Gallup Refinery (the Permittee). NMED hereby issues this Notice of Disapproval (NOD) and provides the following comments.

Comment 1

The Permittee's submittal includes a report from Trihydro (*Land Treatment Unit Soil Sampling Report*, dated January 5, 2010) and a binder that includes soil and groundwater sampling laboratory reports. The Permittee must provide a narrative of the soil sampling and monitoring well sampling (e.g., procedures, investigation derived waste (IDW) management, etc.), any deviations from the requirements listed in the Permit, and the sampling results. The Permittee must revise the Report to include this information.

Ed Riege
Gallup Refinery
August 18, 2010
Page 2

Comment 2

The Permittee does not discuss the soil sampling laboratory analytical results that are included in the binder. The Permittee must revise the Report to discuss the Zone of Influence and the Treatment Zone soil sampling and compare the sampling results to New Mexico Soil Screening Levels, background levels and previous results (see Appendix E, Section 2.2 (Background Values) of the Permit). The Permittee must revise the Report to discuss these data.

Comment 3

The binder includes laboratory reports; however, the Permittee does not discuss groundwater monitoring or the groundwater sampling results. The Permittee must revise the Report to discuss the groundwater sampling (e.g., methods, procedures, deviations), and groundwater sampling results, and perform a statistical analysis as required by Section E.2.6 (Statistical Procedures) and Section 5.8 (Statistical Evaluation of Laboratory Data) of the Permit.

Comment 4

Page 2, paragraph 2, of the Trihydro Report, under the heading "LTU Soil Sampling," states that "[t]he hand auger was advanced to the desired sample interval and samples were extracted onto clean plastic sheeting to allow for sample collection as illustrated in photos 9 through 11 in Attachment 3." Samples collected for analysis of volatile organic compounds (VOC) must be collected with minimal disturbance; therefore, transferring a soil sample from a sampler to a plastic sheet and then to a sample container is unacceptable because it would invalidate the VOC analyses. The Permittee must collect soil samples in accordance the procedures which are described in Appendix E, Section 7 of the Permit and collect samples for VOC analysis in accordance with EPA Method 8260. The Permittee must resample the LTU soils for VOC analysis and revise the Report to include this information.

Ed Riege
Gallup Refinery
August 18, 2010
Page 3

The Permittee must address all comments contained in this NOD and submit a revised Report to NMED on or before December 10, 2010. The revised Report must be submitted with a response letter that details where all revisions have been made, cross-referencing NMED's numbered comments. In addition, an electronic version of the revised Plan must be submitted that identifies where all changes have been made in red-line strikeout format.

If you have questions regarding this letter please contact Kristen Van Horn of my staff at 505-476-6046.

Sincerely,



James P. Bearzi
Chief
Hazardous Waste Bureau

cc: J. Kieling, NMED HWB
D. Cobrain NMED HWB
H. Monzeglio, NMED HWB
K. Van Horn, NMED HWB
C. Chavez, OCD

File: Reading File and WRG 2010 File
HWB-WRG-10-005

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, October 12, 2010 6:15 AM
To: 'Riege, Ed'; Van Horn, Kristen, NMENV
Cc: Grant Price; Johnson, Cheryl
Subject: RE: Semi Annual OCD Landfarm Sampling

Ed:

OCD concurs with Western's resample plan. Thanks.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau 1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/oed/index.htm>
(Pollution Prevention Guidance is under "Publications")

-----Original Message-----

From: Riege, Ed [mailto:Ed.Riege@wnr.com]
Sent: Monday, October 11, 2010 1:30 PM
To: Chavez, Carl J, EMNRD; Van Horn, Kristen, NMENV
Cc: Grant Price; Johnson, Cheryl
Subject: Semi Annual OCD Landfarm Sampling

Hi Carl,
Hard copy of letter has been placed into mail for you.

Thanks,
Ed

Ed Riege
Environmental Manager

Western Refining
Gallup Refinery
Route 3 Box 7
Gallup, NM 87301
(505) 722-0217
ed.riege@wnr.com

Safety starts with "S", but always begins with "You"



GALLUP

WNR
LISTED
NYSE

October 11, 2010

Mr. Carl J. Chavez
Environmental Engineer
New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Oil Conservation Division Landfarm Exceedances for Chloride,
Western Refining Company Southwest, Inc., Gallup Refinery, Gallup, New Mexico

Dear Mr. Chavez:

Western Refining Company's Gallup Refinery (Gallup) is submitting this correspondence to inform the New Mexico Oil Conservation Division (OCD) of chloride exceedances detected during semiannual vadose zone soil sampling conducted at Gallup's Northeast and Central Landfarms during August 2010. Samples were collected from four randomly selected locations in each landfarm and analyzed for benzene, ethylbenzene, toluene, xylenes (BTEX); total petroleum hydrocarbons (TPH); and chloride. Samples results were non-detect for BTEX and TPH. However, chloride soil concentrations ranged from 190 to 600 milligrams per kilogram which is above the practical quantitation limit (PQL) and the current background soil concentration. A summary of laboratory analytical data is provided as Table 1 which is included as an attachment to this correspondence.

Per Section 21.E.(c) of Gallup's Discharge Permit (GW-032), dated August 23, 2007, Gallup intends to "collect and analyze a minimum of four randomly selected, independent samples for TPH, BTEX, chlorides, and the constituents listed in Item F5 below i.e. Subsections A and B of 20.6.2.3103 NMAC" to verify or dispute the August 2010 soil sample exceedances. Per Section 21.E.(a) of the Permit, vadose zone samples will be collected from three to four feet below the cell's original ground surface. Gallup will submit the results of the re-sampling event and, if necessary, a response action plan to OCD within 45 days of this initial notification.

Gallup plans to collect the additional soil samples during the first week of November 2010. If you have any questions or comments, please do not hesitate to call us at (505) 722-0217.

Sincerely
Western Refining Company

A handwritten signature in black ink, appearing to read 'Ed Riege'.

Ed Riege
Environmental Manager

697-039-001

Attachment

cc: Kristen Van Horn NMED HWB
C. Johnson, Western Refining
G. Price, Trihydro Corporation

**TABLE 1. DATA SUMMARY, AUGUST 2010 SEMIANNUAL OIL CONSERVATION DIVISION LANDFARM SOIL SAMPLING RESULTS
WESTERN REFINING, GALLUP REFINERY, GALLUP, NEW MEXICO**

Grid #	Sample ID	Depth (ft bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Chloride (mg/kg)	TPH (mg/kg)
			Method 8021B				Method 300.0	Method 418.1
1467	CentralOCD-03-82410	3.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	190	ND(20)
433	CentralOCD-06-82410	3.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	250	ND(20)
732	CentralOCD-09-82410	3.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	270	ND(20)
1873	CentralOCD-12-82410	3.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	570	ND(20)
194	NEOCD-03-82510	3.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	270	ND(20)
377	NEOCD-06-82510	3.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	260	ND(20)
478	NEOCD-09-82510	3.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	230	ND(20)
87	NEOCD-12-82510	3.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	600	ND(20)
PQLs			0.02	0.05	0.05	0.05	0.3	20
Background			ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(7.5)	NA

Notes: Background soil concentrations obtained from Sample ID "Background" collected on 2/17/2010 by Western Refining. VOCs for Background soil were analyzed per Method 8260B. Landfarm samples were analyzed Method 8021B. PQLs (Practical Quantitation Limits) were obtained from Hall Environmental Laboratories. **BOLD** data indicates exceedance of PQL and/or Background.



Certified Mail 7008 2810 0000 4726 2441

September 14, 2010

Mr. James P. Bearzi
Chief - Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

RE: NMED's "Notice of Disapproval, Land Treatment Unit Post Closure Sampling Event
Western Refining Company Southwest Inc., Gallup Refinery
EPA ID # NMD000333211 HWB-WRG-10-005"

Dear Mr. Bearzi:

The purpose of this letter is to respond to the New Mexico Environment Department's (NMED) *Notice of Disapproval, Land Treatment Unit Post Closure Sampling Event, Western Refining Company Southwest Inc., Gallup Refinery EPA ID # NMD000333211 HWB-WRG-10-005* (LTU NOD), dated August 18, 2010. The *Land Treatment Unit Post Closure Sampling Event, Western Refining Company Southwest Inc., Gallup Refinery EPA ID # NMD000333211 HWB-WRG-10-005* (Report) was submitted by Western Refining Company's Gallup Refinery (Gallup) to NMED in March of 2010. The Report consisted of a cover letter, the *Land Treatment Unit Soil Sampling Report* (prepared by Trihydro, dated January 5, 2010), and LTU groundwater data.

NMED provided four comments in the LTU NOD. NMED's first three comments request that the Report be updated to include additional information. Gallup agrees to update the Report per NMED's first three comments and re-submit the revised report by December 10, 2010, as requested by NMED.

In the fourth LTU NOD comment, NMED disapproved of the soil sampling procedures utilized to collect samples for volatile organic compounds (VOCs) at some of the LTU sample locations and requested re-sampling. On December 8, 2009, NMED was contacted via telephone to discuss alternate sampling procedures. During this telephone conversation, NMED verbally approved an alternate sampling procedure (the use of a hand auger as opposed to a hollow stem auger). At that time, NMED was not aware that using the hand auger would require an intermediate step of extracting soil onto clean plastic sheeting prior to placing it into the sample container. NMED generally does not approve of this step as it can potentially increase volatilization of VOCs. However, during conversations between Gallup, NMED, and Trihydro on September 1, 2010, NMED agreed that re-sampling will not be necessary for the December 2009 event.

Mr. James P. Bearzi
September 9, 2010
Page 2

In the future, Gallup will utilize a hollow stem auger drill rig or consult with NMED to determine another appropriate sampling method. If you have any questions, or if we can be of further service to you, please do not hesitate to call me at (505) 722-0217.

Sincerely,
Western Refining Company



Ed Riege
Environmental Manager

697-039-001

Attachments

cc: J. Kieling, NMED HWB
D. Cobrain NMED HWB
H. Monzeglio NMED HWB
K. Van Horn NMED HWB
C. Chavez, OCD
L. Morgan, Western Refining
R. Mitchell, Trihydro

File: Reading File and WRG 2010 File HWB-WRG-10-005



BILL RICHARDSON
Governor

DIANE DENISH
Lieutenant Governor

**NEW MEXICO
ENVIRONMENT DEPARTMENT**

Hazardous Waste Bureau

2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303
Phone (505) 476-6000 Fax (505) 476-6030
www.nmenv.state.nm.us



RON CURRY
Secretary

SARAH COTTRELL
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

August 18, 2010

Mr. Ed Riege
Environmental Manager
Western Refining, Southwest Inc., Gallup Refinery
Route 3, Box 7
Gallup, New Mexico 87301

**RE: NOTICE OF DISAPPROVAL
LAND TREATMENT UNIT POST CLOSURE SAMPLING EVENT
WESTERN REFINING COMPANY SOUTHWEST INC., GALLUP REFINERY
EPA ID # NMD000333211
HWB-WRG-10-005**

Dear Mr. Riege:

The New Mexico Environment Department (NMED) has completed its review of the *Land Treatment Unit Post Closure Sampling Event* (Report), dated March 2010, submitted on behalf of Western Refining Company Southwest Inc., Gallup Refinery (the Permittee). NMED hereby issues this Notice of Disapproval (NOD) and provides the following comments.

Comment 1

The Permittee's submittal includes a report from Trihydro (*Land Treatment Unit Soil Sampling Report*, dated January 5, 2010) and a binder that includes soil and groundwater sampling laboratory reports. The Permittee must provide a narrative of the soil sampling and monitoring well sampling (e.g., procedures, investigation derived waste (IDW) management, etc.), any deviations from the requirements listed in the Permit, and the sampling results. The Permittee must revise the Report to include this information.

Comment 2

The Permittee does not discuss the soil sampling laboratory analytical results that are included in the binder. The Permittee must revise the Report to discuss the Zone of Influence and the Treatment Zone soil sampling and compare the sampling results to New Mexico Soil Screening Levels, background levels and previous results (see Appendix E, Section 2.2 (Background Values) of the Permit). The Permittee must revise the Report to discuss these data.

Comment 3

The binder includes laboratory reports; however, the Permittee does not discuss groundwater monitoring or the groundwater sampling results. The Permittee must revise the Report to discuss the groundwater sampling (e.g., methods, procedures, deviations), and groundwater sampling results, and perform a statistical analysis as required by Section E.2.6 (Statistical Procedures) and Section 5.8 (Statistical Evaluation of Laboratory Data) of the Permit.

Comment 4

Page 2, paragraph 2, of the Trihydro Report, under the heading "LTU Soil Sampling," states that "[t]he hand auger was advanced to the desired sample interval and samples were extracted onto clean plastic sheeting to allow for sample collection as illustrated in photos 9 through 11 in Attachment 3." Samples collected for analysis of volatile organic compounds (VOC) must be collected with minimal disturbance; therefore, transferring a soil sample from a sampler to a plastic sheet and then to a sample container is unacceptable because it would invalidate the VOC analyses. The Permittee must collect soil samples in accordance the procedures which are described in Appendix E, Section 7 of the Permit and collect samples for VOC analysis in accordance with EPA Method 8260. The Permittee must resample the LTU soils for VOC analysis and revise the Report to include this information.

Ed Riege
Gallup Refinery
August 18, 2010
Page 3

The Permittee must address all comments contained in this NOD and submit a revised Report to NMED on or before December 10, 2010. The revised Report must be submitted with a response letter that details where all revisions have been made, cross-referencing NMED's numbered comments. In addition, an electronic version of the revised Plan must be submitted that identifies where all changes have been made in red-line strikeout format.

If you have questions regarding this letter please contact Kristen Van Horn of my staff at 505-476-6046.

Sincerely,



James P. Bearzi
Chief
Hazardous Waste Bureau

cc: J. Kieling, NMED HWB
D. Cobrain NMED HWB
H. Monzeglio, NMED HWB
K. Van Horn, NMED HWB
C. Chavez, OCD

File: Reading File and WRG 2010 File
HWB-WRG-10-005

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, September 16, 2009 12:27 PM
To: Rajen, Gaurav
Subject: RE: Background soil samples locations at Gallup Refinery

Raj:

Well, we want to be as far away from the refinery as possible within areas that have never been impacted by the facility. I think you have the right idea. Thanks.

-----Original Message-----

From: Rajen, Gaurav [mailto:Gaurav.Rajen@wnr.com]
Sent: Tue 9/15/2009 11:53 AM
To: Chavez, Carl J, EMNRD
Cc: Riege, Ed; Larsen, Thurman; Monzeglio, Hope, NMENV; VonGonten, Glenn, EMNRD
Subject: RE: Background soil samples locations at Gallup Refinery

Dear Carl:

You are right in both comments. We are at this time seeking background determination for the OCD regulated landfarm, as per your earlier directions.

The north location you suggest is far from refinery ops as you say, but it possibly gets impacted by traffic on the railroad tracks. This area is also quite heavily populated with vegetation, which might have affected the shallow soils. However, we can try and find areas far from both the railroad tracks and refinery ops, and also that are somewhat clear of vegetation and the effects of roots and plant evapotranspiration effects.

We will document the locations selected with ample photographs.

Best regards,

Raj

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Tuesday, September 15, 2009 11:29 AM
To: Rajen, Gaurav
Cc: Riege, Ed; Larsen, Thurman; Monzeglio, Hope, NMENV; VonGonten, Glenn, EMNRD
Subject: RE: Background soil samples locations at Gallup Refinery

Raj:

Ok, I notice that you are attempting to obtain background soils samples for OCD and NMED. If this is correct, then Hope Monzeglio had sent a prior e-mail with some direction for satisfying NMED/EPA requirements.

This will require random sampling scheme with 95% UCL statistical analysis and basis for determining soil and ground water background.

You will need to confer further with NMED to adequately address soil and background for the entire facility.

If you are simply seeking a background determination for the OCD regulated landfarm, then the OCD has given you directions. The only comment that I have based on your most recent submittal, soil classification 212 (Rehobeth silty clay loam) is fairly widespread across and upgradient from the facility. the area up to the North between the two "225" soil horizons appears to be well upgradient of refinery Ops and would be the location of preferential sampling for landfarm background sampling.

Please contact me if you have questions. Thank you.

-----Original Message-----

From: Rajen, Gaurav [mailto:Gaurav.Rajen@wnr.com]

Sent: Mon 9/14/2009 12:33 PM

To: Chavez, Carl J, EMNRD

Cc: Riege, Ed; Larsen, Thurman; Monzeglio, Hope, NMENV; VonGonten, Glenn, EMNRD

Subject: RE: Background soil samples locations at Gallup Refinery

Dear Carl:

We are waiting for information to coordinate our background soil samples for OCD and NMED needs.

In the meantime, I am attaching a set of slides that provide information from the NRCS on our soils.

Best regards,

Raj

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]

Sent: Friday, September 11, 2009 1:57 PM

To: Rajen, Gaurav

Cc: Riege, Ed; Larsen, Thurman; Monzeglio, Hope, NMENV; VonGonten, Glenn, EMNRD

Subject: RE: Background soil samples locations at Gallup Refinery

Raj:

Re: OCD Regulated Landfarm & Background Determination

Could you please send me the agricultural map that forms the basis for your sample location. Ideally, at least 5 randomly composited soil samples (6 inches deep) in various locations upgradient and side gradient from the facility with similar soil classification (based on past correspondence on this issue) would be preferred. Also, what parameters will you be sampling for? Is the one spot due to the only similar type soil classification near the refinery? Thanks.

Carl J. Chavez, CHMM

New Mexico Energy, Minerals & Natural Resources Dept.

Oil Conservation Division, Environmental Bureau

1220 South St. Francis Dr., Santa Fe, New Mexico 87505

Office: (505) 476-3490

Fax: (505) 476-3462

E-mail: CarlJ.Chavez@state.nm.us

Website: <http://www.emnrd.state.nm.us/oed/index.htm>

(Pollution Prevention Guidance is under "Publications")

From: Rajen, Gaurav [mailto:Gaurav.Rajen@wnr.com]

Sent: Friday, September 11, 2009 1:32 PM

To: Chavez, Carl J, EMNRD

Cc: Riege, Ed; Larsen, Thurman; Monzeglio, Hope, NMENV

Subject: Background soil samples locations at Gallup Refinery

Dear Carl:

It is a pleasure to send you a satellite image describing our selected locations for background samples that we will collect based on your previous guidance.

I am pasting below the satellite image with the area demarcated.

The soils in this area seem similar to those in the land farm area and have not been impacted by surface run-off/ run-on.

We hope to collect soils next week, if this location seems suitable to you.

Many thanks,

Raj

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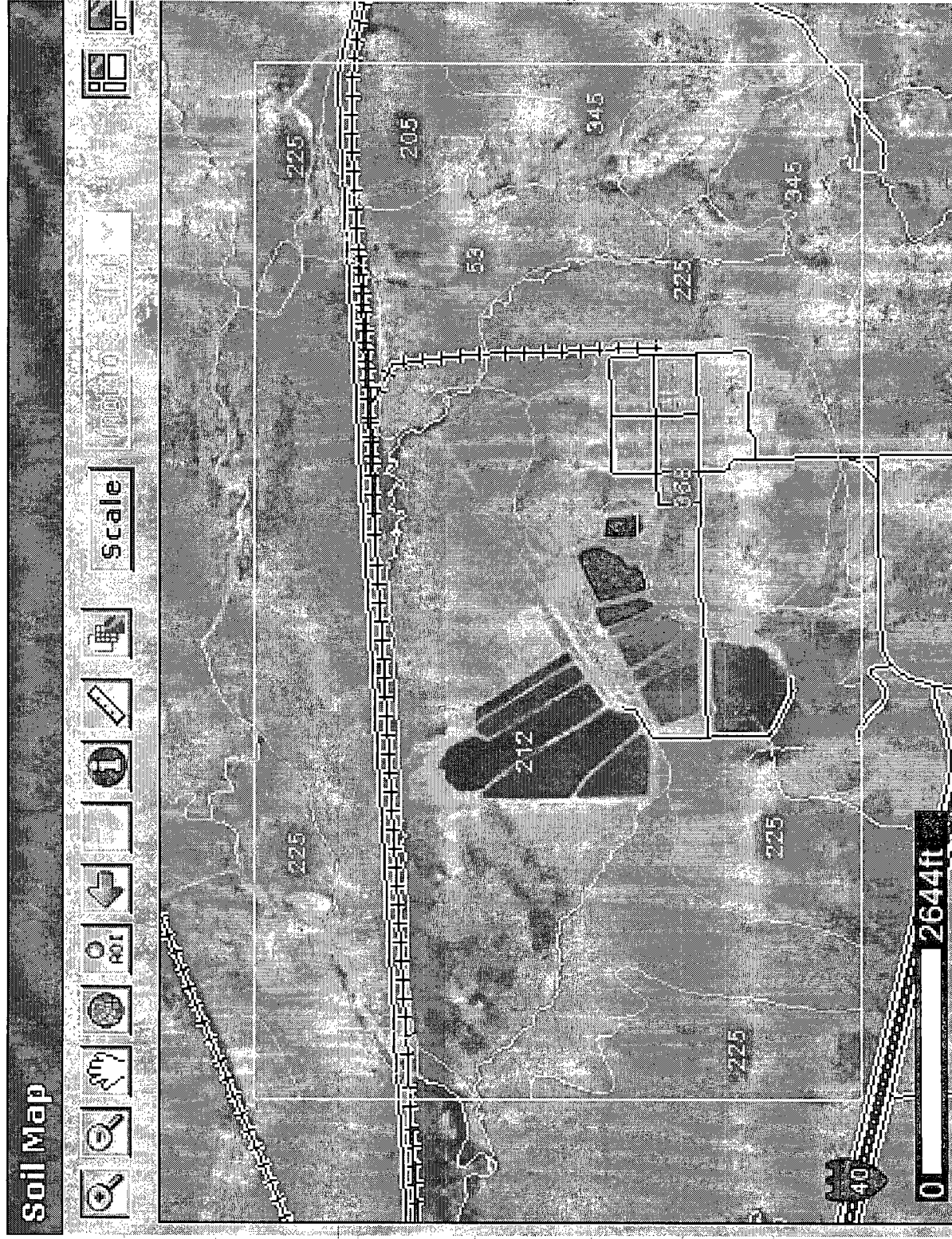
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Symbol	
53	Hawaikuh clay loam, 0 to 2 percent slopes
205	Penistaja-Tintero complex, 1 to 10 percent slopes
212	Rehobeth silty clay loam, 0 to 1 percent slopes
225	Aquima-Hawaikuh silt loams, 1 to 5 percent slopes
308	Fikel-Venzuni complex, 1 to 6 percent slopes
336	Nuffel-Venadito complex, 1 to 3 percent slopes
345	Rock outcrop-Tuces complex, 20 to 70 percent slopes
352	Zia sandy loam, 1 to 5 percent slopes



From the web soil survey of the NRCS, land farm soils are 212 – Rehobeth silty clay loam

212—Rehobeth silty clay loam, 0 to 1 percent slopes

Map Unit Setting

MLRA: 36

Elevation: 6,600 to 6,800 feet (2,012 to 2,073 meters)

Mean annual precipitation: 10 to 13 inches (254 to 330 millimeters)

Average annual air temperature: 46 to 49 degrees F (8 to 9 degrees C)

Frost-free period: 100 to 135 days

Map Unit Composition

Rehobeth and similar soils: 90 percent

Minor components: 10 percent

Urban land

In the City of Gallup, components of this map unit are covered by buildings, parking lots, roads, and sidewalks. The percentage of Urban land ranges from less than 10 percent on the city's periphery to 60 percent in densely developed residential sections. There are also many areas that have been cut and filled with a variety of earthen materials or man-made soils.

Component Descriptions

Rehobeth soils

Geomorphic position: Flood plains and stream terraces on valley floors

Parent material: Stream alluvium derived from gypsiferous shale

Slope: 0 to 1 percent

Depth to restrictive feature: None within 60 inches

Drainage class: Well drained

Slowest permeability: About 0.06 in/hr (slow)

Available water capacity: About 8.5 inches (moderate)

Shrink-swell potential: About 7.5 LEP (high)

Flooding hazard: Occasional

Ponding hazard: Occasional

Seasonal water table minimum depth: Greater than 6 feet

Runoff class: Low

Calcium carbonate maximum: About 5 percent

Gypsum maximum: About 15 percent

Salinity maximum: About 8 mmhos/cm (slightly saline)

Sodicity maximum: About 13 SAR (moderately sodic)

Ecological site: Salty Bottomland

Present native vegetation: alkali sacaton, western wheatgrass, fourwing saltbush, black greasewood, blue grama, bottlebrush squirreltail, inland saltgrass, mat muhly, rabbitbrush

Land capability (nonirrigated): 6c
Conservation Tree/Shrub Group: 10

Typical Profile:

A—0 to 2 inches; silty clay loam
Bw—2 to 5 inches; silty clay loam
Bss—5 to 12 inches; clay
Bssny1—12 to 18 inches; clay
Bssny2—18 to 32 inches; clay
Bssny3—32 to 80 inches; clay

Minor Components

Nuffel and similar soils

Composition: About 4 percent

Slope: 0 to 1 percent

Depth to restrictive feature: None within 60 inches

Drainage class: Well drained

Ecological site: Bottomland

Aquima and similar soils

Composition: About 3 percent

Slope: 0 to 1 percent

Depth to restrictive feature: None within 60 inches

Drainage class: Well drained

Ecological site: Loamy

Zia and similar soils

Composition: About 3 percent

Slope: 0 to 1 percent

Depth to restrictive feature: None within 60 inches

Drainage class: Somewhat excessively drained

Ecological site: Sandy

Chavez, Carl J, EMNRD

From: Rajen, Gaurav [Gaurav.Rajen@wnr.com]
Sent: Tuesday, September 15, 2009 11:54 AM
To: Chavez, Carl J, EMNRD
Cc: Riege, Ed; Larsen, Thurman; Monzeglio, Hope, NMENV; VonGonten, Glenn, EMNRD
Subject: RE: Background soil samples locations at Gallup Refinery

Dear Carl:

You are right in both comments. We are at this time seeking background determination for the OCD regulated landfarm, as per your earlier directions.

The north location you suggest is far from refinery ops as you say, but it possibly gets impacted by traffic on the railroad tracks. This area is also quite heavily populated with vegetation, which might have affected the shallow soils. However, we can try and find areas far from both the railroad tracks and refinery ops, and also that are somewhat clear of vegetation and the effects of roots and plant evapotranspiration effects.

We will document the locations selected with ample photographs.

Best regards,

Raj

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Tuesday, September 15, 2009 11:29 AM
To: Rajen, Gaurav
Cc: Riege, Ed; Larsen, Thurman; Monzeglio, Hope, NMENV; VonGonten, Glenn, EMNRD
Subject: RE: Background soil samples locations at Gallup Refinery

Raj:

Ok, I notice that you are attempting to obtain background soils samples for OCD and NMED. If this is correct, then Hope Monzeglio had sent a prior e-mail with some direction for satisfying NMED/EPA requirements. This will require random sampling scheme with 95% UCL statistical analysis and basis for determining soil and ground water background. You will need to confer further with NMED to adequately address soil and background for the entire facility.

If you are simply seeking a background determination for the OCD regulated landfarm, then the OCD has given you directions. The only comment that I have based on your most recent submittal, soil classification 212 (Rehobeth silty clay loam) is fairly widespread across and upgradient from the facility. The area up to the North between the two "225" soil horizons appears to be well upgradient of refinery Ops and would be the location of preferential sampling for landfarm background sampling.

Please contact me if you have questions. Thank you.

-----Original Message-----

From: Rajen, Gaurav [mailto:Gaurav.Rajen@wnr.com]
Sent: Mon 9/14/2009 12:33 PM
To: Chavez, Carl J, EMNRD
Cc: Riege, Ed; Larsen, Thurman; Monzeglio, Hope, NMENV; VonGonten, Glenn, EMNRD
Subject: RE: Background soil samples locations at Gallup Refinery

Dear Carl:

We are waiting for information to coordinate our background soil samples for OCD and NMED needs.

In the meantime, I am attaching a set of slides that provide information from the NRCS on our soils.

Best regards,

Raj

From: Chavez, Carl J, EMNRD [<mailto:CarlJ.Chavez@state.nm.us>]
Sent: Friday, September 11, 2009 1:57 PM
To: Rajen, Gaurav
Cc: Riege, Ed; Larsen, Thurman; Monzeglio, Hope, NMENV; VonGonten, Glenn, EMNRD
Subject: RE: Background soil samples locations at Gallup Refinery

Raj:

Re: OCD Regulated Landfarm & Background Determination

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Carl J. Chavez, CHMM

New Mexico Energy, Minerals & Natural Resources Dept.

Oil Conservation Division, Environmental Bureau

1220 South St. Francis Dr., Santa Fe, New Mexico 87505

Office: (505) 476-3490

Fax: (505) 476-3462

E-mail: CarlJ.Chavez@state.nm.us

Website: <http://www.emnrd.state.nm.us/ocd/index.htm>

(Pollution Prevention Guidance is under "Publications")

From: Rajen, Gaurav [<mailto:Gaurav.Rajen@wnr.com>]
Sent: Friday, September 11, 2009 1:32 PM
To: Chavez, Carl J, EMNRD
Cc: Riege, Ed; Larsen, Thurman; Monzeglio, Hope, NMENV
Subject: Background soil samples locations at Gallup Refinery

Dear Carl:

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Many thanks,

Raj

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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, September 15, 2009 11:29 AM
To: Rajen, Gaurav
Cc: Riege, Ed; Larsen, Thurman; Monzeglio, Hope, NMENV; VonGonten, Glenn, EMNRD
Subject: RE: Background soil samples locations at Gallup Refinery
Attachments: image001.gif

Raj:

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Please contact me if you have questions. Thank you.

-----Original Message-----

From: Rajen, Gaurav [mailto:Gaurav.Rajen@wnr.com]
Sent: Mon 9/14/2009 12:33 PM
To: Chavez, Carl J, EMNRD
Cc: Riege, Ed; Larsen, Thurman; Monzeglio, Hope, NMENV; VonGonten, Glenn, EMNRD
Subject: RE: Background soil samples locations at Gallup Refinery

Dear Carl:

We are waiting for information to coordinate our background soil samples for OCD and NMED needs.

In the meantime, I am attaching a set of slides that provide information from the NRCS on our soils.

Best regards,

Raj

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Friday, September 11, 2009 1:57 PM
To: Rajen, Gaurav

Cc: Riege, Ed; Larsen, Thurman; Monzeglio, Hope, NMENV; VonGonten, Glenn, EMNRD
Subject: RE: Background soil samples locations at Gallup Refinery

Raj:

Re: OCD Regulated Landfarm & Background Determination

Could you please send me the agricultural map that forms the basis for your sample location. Ideally, at least 5 randomly composited soil samples (6 inches deep) in various locations upgradient and side gradient from the facility with similar soil classification (based on past correspondence on this issue) would be preferred. Also, what parameters will you be sampling for? Is the one spot due to the only similar type soil classification near the refinery? Thanks.

Carl J. Chavez, CHMM

New Mexico Energy, Minerals & Natural Resources Dept.

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1220 South St. Francis Dr., Santa Fe, New Mexico 87505

Office: (505) 476-3490

Fax: (505) 476-3462

E-mail: CarlJ.Chavez@state.nm.us

Website: <http://www.emnrd.state.nm.us/ocd/index.htm>

(Pollution Prevention Guidance is under "Publications")

From: Rajen, Gaurav [mailto:Gaurav.Rajen@wnr.com]
Sent: Friday, September 11, 2009 1:32 PM
To: Chavez, Carl J, EMNRD
Cc: Riege, Ed; Larsen, Thurman; Monzeglio, Hope, NMENV
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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, September 15, 2009 11:12 AM
To: Rajen, Gaurav
Cc: Riege, Ed; Larsen, Thurman; Monzeglio, Hope, NMENV; VonGonten, Glenn, EMNRD
Subject: RE: Background soil samples locations at Gallup Refinery
Attachments: image001.gif

Raj:

I believe the refinery understands that the proposed background sampling is for the OCD regulated landfarm under the OCD permit. Based on the proposed background sampling, the refinery should be aware that this background sampling would not satisfy NMED/EPA background sampling protocols for the refinery under RCRA and the Order. Please confirm that you acknowledge this. The OCD is working with the refinery to establish background only for the landfarm. Thanks.

-----Original Message-----

From: Rajen, Gaurav [mailto:Gaurav.Rajen@wnr.com]
Sent: Mon 9/14/2009 12:33 PM
To: Chavez, Carl J, EMNRD
Cc: Riege, Ed; Larsen, Thurman; Monzeglio, Hope, NMENV; VonGonten, Glenn, EMNRD
Subject: RE: Background soil samples locations at Gallup Refinery

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Sent: Friday, September 11, 2009 1:57 PM
To: Rajen, Gaurav
Cc: Riege, Ed; Larsen, Thurman; Monzeglio, Hope, NMENV; VonGonten, Glenn, EMNRD
Subject: RE: Background soil samples locations at Gallup Refinery

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E-mail: CarlJ.Chavez@state.nm.us

Website: <http://www.emnrd.state.nm.us/oed/index.htm>

(Pollution Prevention Guidance is under "Publications")

From: Rajen, Gaurav [mailto:Gaurav.Rajen@wnr.com]

Sent: Friday, September 11, 2009 1:32 PM

To: Chavez, Carl J, EMNRD

Cc: Riege, Ed; Larsen, Thurman; Monzeglio, Hope, NMENV

Subject: Background soil samples locations at Gallup Refinery

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Chavez, Carl J, EMNRD

From: Rajen, Gaurav [Gaurav.Rajen@wnr.com]
Sent: Monday, September 14, 2009 12:34 PM
To: Chavez, Carl J, EMNRD
Cc: Riege, Ed; Larsen, Thurman; Monzeglio, Hope, NMENV; VonGonten, Glenn, EMNRD
Subject: RE: Background soil samples locations at Gallup Refinery
Attachments: NRCS web soil survey.ppt

Dear Carl:

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In the meantime, I am attaching a set of slides that provide information from the NRCS on our soils.

Best regards,

Raj

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Friday, September 11, 2009 1:57 PM
To: Rajen, Gaurav
Cc: Riege, Ed; Larsen, Thurman; Monzeglio, Hope, NMENV; VonGonten, Glenn, EMNRD
Subject: RE: Background soil samples locations at Gallup Refinery

Raj:

Re: OCD Regulated Landfarm & Background Determination

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Carl J. Chavez, CHMM
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Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/oed/index.htm>
(Pollution Prevention Guidance is under "Publications")

From: Rajen, Gaurav [mailto:Gaurav.Rajen@wnr.com]
Sent: Friday, September 11, 2009 1:32 PM
To: Chavez, Carl J, EMNRD
Cc: Riege, Ed; Larsen, Thurman; Monzeglio, Hope, NMENV
Subject: Background soil samples locations at Gallup Refinery

Dear Carl:

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The soils in this area seem similar to those in the land farm area and have not been impacted by surface run-off/ run-on.

We hope to collect soils next week, if this location seems suitable to you.

Many thanks,

Raj



**General area selected for
collecting background soil
samples**

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Chavez, Carl J, EMNRD

From: Rajen, Gaurav [Gaurav.Rajen@wnr.com]
Sent: Friday, September 11, 2009 2:16 PM
To: Chavez, Carl J, EMNRD
Cc: Riege, Ed; Larsen, Thurman; Monzeglio, Hope, NMENV; VonGonten, Glenn, EMNRD
Subject: RE: Background soil samples locations at Gallup Refinery

Dear Carl:

We are working to get a detailed soil map from the NRCS – at this time this location was selected based on our best judgment. The general area I indicated is a fairly large area, so we should be able to get samples from several locations that are spaced quite far apart (> 50 feet).

We will sample for all the parameters that are in the discharge permit, as you have directed.

Best regards,

Raj

PS: As we will soon be having two wells drilled, we will have geotechnical engineers on site and will confer with them also to help select the most appropriate locations.

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Friday, September 11, 2009 1:57 PM
To: Rajen, Gaurav
Cc: Riege, Ed; Larsen, Thurman; Monzeglio, Hope, NMENV; VonGonten, Glenn, EMNRD
Subject: RE: Background soil samples locations at Gallup Refinery

Raj:

Re: OCD Regulated Landfarm & Background Determination

Could you please send me the agricultural map that forms the basis for your sample location. Ideally, at least 5 randomly composited soil samples (6 inches deep) in various locations upgradient and side gradient from the facility with similar soil classification (based on past correspondence on this issue) would be preferred. Also, what parameters will you be sampling for? Is the one spot due to the only similar type soil classification near the refinery? Thanks.

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E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/oed/index.htm>
(Pollution Prevention Guidance is under "Publications")

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Sent: Friday, September 11, 2009 1:32 PM
To: Chavez, Carl J, EMNRD
Cc: Riege, Ed; Larsen, Thurman; Monzeglio, Hope, NMENV
Subject: Background soil samples locations at Gallup Refinery

Dear Carl:

It is a pleasure to send you a satellite image describing our selected locations for background samples that we will collect based on your previous guidance.

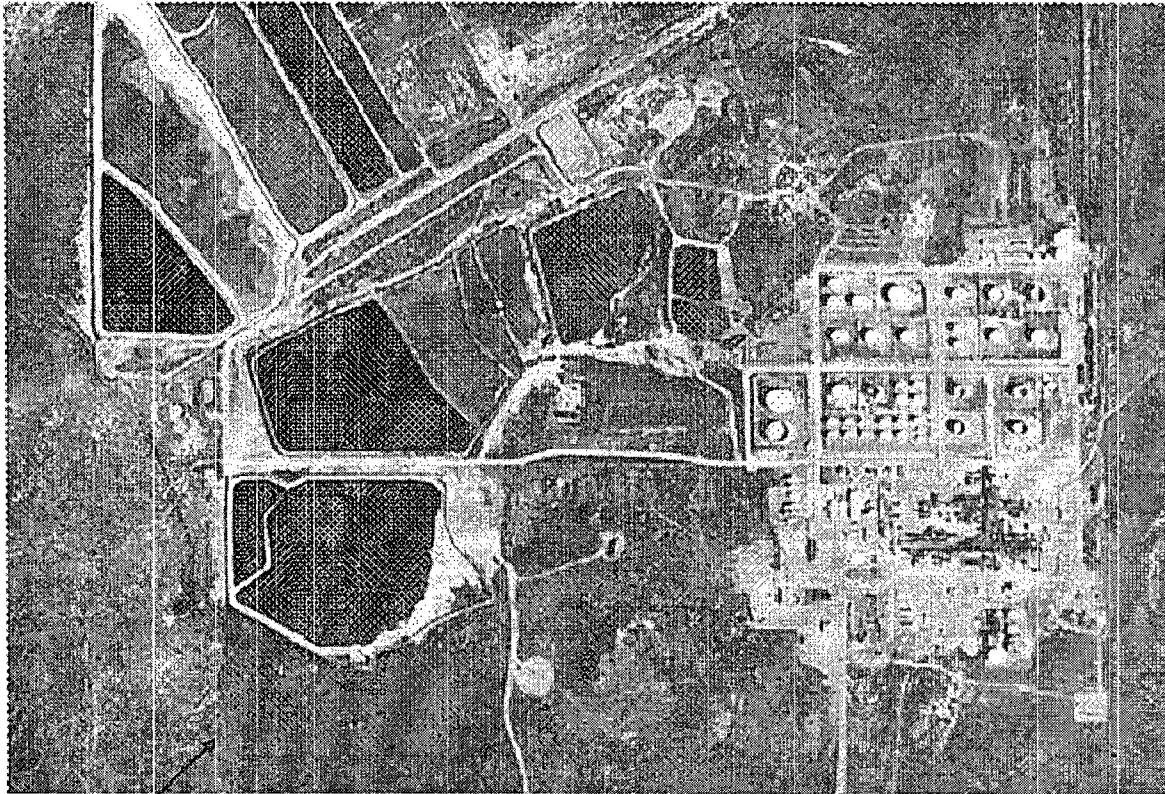
I am pasting below the satellite image with the area demarcated.

The soils in this area seem similar to those in the land farm area and have not been impacted by surface run-off/ run-on.

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Many thanks,

Raj



**General area selected for
collecting background soil
samples**

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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Friday, July 17, 2009 11:15 AM
To: 'Rajen, Gaurav'; Monzeglio, Hope, NMENV; Cobrain, Dave, NMENV
Cc: Riege, Ed; Larsen, Thurman
Subject: Western Refining Southwest- Gallup Refinery (GW-032) Latest sampling results from our land-farms & collection of representative background sample for the land farms

Raj:

Per our telephone call this morning. The OCD agrees with Western Refining SW's (WRSW) background sample approach for the landfarm. WRSW will use the soil conservation soil type publication to locate a similar soil type off-property and upslope to the refinery and obtain a 5 point composite sample from 6 to 12 inches below ground level. The constituents (TPH (8015M & 418.1), Chlorides (300), 20.6.2.3103, etc. to be monitored are specified under the discharge permit Section 21(F)(1-5).

WRSW may also want to consider discussions on determining background for the facility for spills and releases and the reliance on cleanup to higher of background, PQL, etc. We welcome any discussions about this to include NMED.

Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/ocd/index.htm>
(Pollution Prevention Guidance is under "Publications")

From: Rajen, Gaurav [mailto:Gaurav.Rajen@wnr.com]
Sent: Thursday, July 16, 2009 11:48 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Riege, Ed; Larsen, Thurman
Subject: Latest sampling results from our land-farms

Dear Carl:

It is a pleasure to write and share with you our latest semi-annual sampling results from our permitted land farms – the OCD Land Farm is to the south-west of our facility; and the NE Land Farm is the temporary land farm in the North-east section.

Table 1 provides a summary of our results; and the attachment gives analytical data. (You will note that in the laboratory results there is an additional sample from the Railroad Rack Lagoon Fan-out area work we are doing under Hope's direction.)

Sample Location and ID	BTEX	TPH (ppm)	Chlorides (ppm)
Background (LFOCD-001-062509)	ND	72	1500
OCD Land Farm – composite from treatment zone (LFOCD-003-062509)	Not analyzed (not mandated by OCD permit GW-032)	12,000	230
OCD Land Farm – vadose zone (LFOCD-002-062509)	ND	ND	240
OCD Land Farm – vadose zone (LFOCD-004-062509)	ND	ND	240

OCD Land Farm – vadose zone (LFOCD-005-062509)	ND	ND	180
OCD Land Farm – vadose zone (LFOCD-006-062509)	ND	180	240
NE Land Farm – composite from treatment zone (LFNE-007-062509)	Not analyzed (not mandated by OCD permit GW-032)	240	140
NE Land Farm – vadose zone (LFNE-008-062509)	ND	24	87
NE Land Farm – vadose zone (LFNE-009-062509)	ND	39	130
NE Land Farm – vadose zone (LFNE-010-062509)	ND	36	150
NE Land Farm – vadose zone (LFNE-011-062509)	ND	ND	150

The NE land farm recently received material from our excavation of the rail-road rack lagoon fan-out area. As you can see – from our composite sample, we are likely already below clean-up standards for this lift. However, excavation is on-going and we will be adding more material. After we have disked and watered for a month, we will resample and send you our disposition plans and a description of our perhaps having met the closure performance standards.

The purpose of this letter is to alert you to the fact that at the OCD land farm one of our vadose zone samples had a TPH level of 180 ppm (background is 72 ppm). We plan to resample as per our permit GW-032. There is a possibility that the equipment we used (a back-hoe) may have cross-contaminated between the treatment zone sample and the vadose zone sample. We will take care to decontaminate the back-hoe more thoroughly this time when we resample to preclude such a possibility.

If the vadose zone sample is again higher than the background sample, we will prepare and send you our response action plan.

Our background sample was collected in a non-impacted field near the OCD Land Farm. We believe the TPH levels we find in the background sample are from deposition of hydrocarbon vapors and particulates through the air – these could come from the refinery and to a lesser extent from the Interstate -40, as well as vehicles driving on adjacent roads. As the intent of the background sample is to determine if the material placed on the land farm is leaching into the subsurface and vadose zone, we feel it is important to use a local surface soil sample to represent what would have been concentrations in the land farm soils if no material had been placed within.

You will notice that the background sample is high in chlorides – this is likely because of vegetation in the field where the background sample was collected. In desert soils, such as ours, plants can change salt concentrations considerably in soils around the plants and roots; and rain water, too, can leach salts and then raise surface soil concentrations of salts upon evaporation. If you have any thoughts on the location and nature of the background sample, please send them on to us.

We have been trying to find which soil sample in the past was used as representative of the background. As we could not find such data readily, we have taken a new background sample from an adjacent field to the OCD land farm.

Best regards,

Raj

This inbound email has been scanned by the MessageLabs Email Security System.

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Friday, July 17, 2009 11:15 AM
To: 'Rajen, Gaurav'; Monzeglio, Hope, NMENV; Cobrain, Dave, NMENV
Cc: Riege, Ed; Larsen, Thurman
Subject: Western Refining Southwest- Gallup Refinery (GW-032) Latest sampling results from our land-farms & collection of representative background sample for the land farms

Raj:

Per our telephone call this morning. The OCD agrees with Western Refining SW's (WRSW) background sample approach for the landfarm. WRSW will use the soil conservation soil type publication to locate a similar soil type off-property and upslope to the refinery and obtain a 5 point composite sample from 6 to 12 inches below ground level. The constituents (TPH (8015M & 418.1), Chlorides (300), 20.6.2.3103, etc. to be monitored are specified under the discharge permit Section 21(F)(1-5).

WRSW may also want to consider discussions on determining background for the facility for spills and releases and the reliance on cleanup to higher of background, PQL, etc. We welcome any discussions about this to include NMED.

Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/oed/index.htm>
(Pollution Prevention Guidance is under "Publications")

From: Rajen, Gaurav [mailto:Gaurav.Rajen@wnr.com]
Sent: Thursday, July 16, 2009 11:48 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Riege, Ed; Larsen, Thurman
Subject: Latest sampling results from our land-farms

Dear Carl:

It is a pleasure to write and share with you our latest semi-annual sampling results from our permitted land farms – the OCD Land Farm is to the south-west of our facility; and the NE Land Farm is the temporary land farm in the North-east section.

Table 1 provides a summary of our results; and the attachment gives analytical data. (You will note that in the laboratory results there is an additional sample from the Railroad Rack Lagoon Fan-out area work we are doing under Hope's direction.)

Sample Location and ID	BTEX	TPH (ppm)	Chlorides (ppm)
Background (LFOCD-001-062509)	ND	72	1500
OCD Land Farm – composite from treatment zone (LFOCD-003-062509)	Not analyzed (not mandated by OCD permit GW-032)	12,000	230
OCD Land Farm – vadose zone (LFOCD-002-062509)	ND	ND	240
OCD Land Farm – vadose zone (LFOCD-004-062509)	ND	ND	240

OCD Land Farm – vadose zone (LFOCD-005-062509)	ND	ND	180
OCD Land Farm – vadose zone (LFOCD-006-062509)	ND	180	240
NE Land Farm – composite from treatment zone (LFNE-007-062509)	Not analyzed (not mandated by OCD permit GW-032)	240	140
NE Land Farm – vadose zone (LFNE-008-062509)	ND	24	87
NE Land Farm – vadose zone (LFNE-009-062509)	ND	39	130
NE Land Farm – vadose zone (LFNE-010-062509)	ND	36	150
NE Land Farm – vadose zone (LFNE-011-062509)	ND	ND	150

The NE land farm recently received material from our excavation of the rail-road rack lagoon fan-out area. As you can see – from our composite sample, we are likely already below clean-up standards for this lift. However, excavation is on-going and we will be adding more material. After we have disked and watered for a month, we will resample and send you our disposition plans and a description of our perhaps having met the closure performance standards.

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Our background sample was collected in a non-impacted field near the OCD Land Farm. We believe the TPH levels we find in the background sample are from deposition of hydrocarbon vapors and particulates through the air – these could come from the refinery and to a lesser extent from the Interstate -40, as well as vehicles driving on adjacent roads. As the intent of the background sample is to determine if the material placed on the land farm is leaching into the subsurface and vadose zone, we feel it is important to use a local surface soil sample to represent what would have been concentrations in the land farm soils if no material had been placed within.

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Best regards,

Raj

This inbound email has been scanned by the MessageLabs Email Security System.

Chavez, Carl J, EMNRD

From: Rajen, Gaurav [Gaurav.Rajen@wnr.com]
Sent: Thursday, July 16, 2009 11:48 AM
To: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV
Cc: Riege, Ed; Larsen, Thurman
Subject: Latest sampling results from our land-farms
Attachments: June 2009.pdf

Dear Carl:

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OCD Land Farm – vadose zone (LFOCD-004-062509)	ND	ND	240
OCD Land Farm – vadose zone (LFOCD-005-062509)	ND	ND	180
OCD Land Farm – vadose zone (LFOCD-006-062509)	ND	180	240
NE Land Farm – composite from treatment zone (LFNE-007-062509)	Not analyzed (not mandated by OCD permit GW-032)	240	140
NE Land Farm – vadose zone (LFNE-008-062509)	ND	24	87
NE Land Farm – vadose zone (LFNE-009-062509)	ND	39	130
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Best regards,

Raj

This inbound email has been scanned by the MessageLabs Email Security System.



COVER LETTER

Friday, July 10, 2009

Gaurav Rajen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-0227

FAX (505) 722-0210

RE: Landfarms Semi-Annual

Order No.: 0906596

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 12 sample(s) on 6/29/2009 for the analyses presented in the following report.

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

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

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

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

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



4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup

Project: Landfarms Semi-Annual

Lab Order: 0906596

CASE NARRATIVE

Analytical Comments for METHOD 8015DRO_S, SAMPLE 0906596-12A: DNOP not recovered due to dilution

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0906596
Project: Landfarms Semi-Annual
Lab ID: 0906596-01

Client Sample ID: LFOCD-001-062509
Collection Date: 6/25/2009 1:30:00 PM
Date Received: 6/29/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/7/2009 5:38:54 PM
Toluene	ND	0.050		mg/Kg	1	7/7/2009 5:38:54 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/7/2009 5:38:54 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/7/2009 5:38:54 PM
Surr: 4-Bromofluorobenzene	97.4	66.8-139		%REC	1	7/7/2009 5:38:54 PM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	1500	15		mg/Kg	50	7/7/2009 1:29:04 PM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	72	20		mg/Kg	1	7/1/2009

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 1 of 12

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0906596
Project: Landfarms Semi-Annual
Lab ID: 0906596-02

Client Sample ID: LFOCD-002-062509
Collection Date: 6/25/2009 1:45:00 PM
Date Received: 6/29/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/7/2009 6:09:20 PM
Toluene	ND	0.050		mg/Kg	1	7/7/2009 6:09:20 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/7/2009 6:09:20 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/7/2009 6:09:20 PM
Surr: 4-Bromofluorobenzene	96.4	66.8-139		%REC	1	7/7/2009 6:09:20 PM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	240	6.0		mg/Kg	20	7/6/2009 6:50:21 PM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	7/1/2009

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 2 of 12

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0906596
Project: Landfarms Semi-Annual
Lab ID: 0906596-03

Client Sample ID: LFOCD-003-062509
Collection Date: 6/25/2009 2:00:00 PM
Date Received: 6/29/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						
Chloride	230	1.5		mg/Kg	5	Analyst: TAF 7/7/2009 1:11:40 PM
EPA METHOD 418.1: TPH						
Petroleum Hydrocarbons, TR	12000	400		mg/Kg	20	Analyst: LRW 7/1/2009

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

Page 3 of 12

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0906596
Project: Landfarms Semi-Annual
Lab ID: 0906596-04

Client Sample ID: LFOCD-004-062509
Collection Date: 6/25/2009 2:15:00 PM
Date Received: 6/29/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/7/2009 7:10:20 PM
Toluene	ND	0.050		mg/Kg	1	7/7/2009 7:10:20 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/7/2009 7:10:20 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/7/2009 7:10:20 PM
Surr: 4-Bromofluorobenzene	98.5	66.8-139		%REC	1	7/7/2009 7:10:20 PM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	240	3.0		mg/Kg	10	7/6/2009 7:07:46 PM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	7/1/2009

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0906596
Project: Landfarms Semi-Annual
Lab ID: 0906596-05

Client Sample ID: LFOCD-005-062509
Collection Date: 6/25/2009 2:30:00 PM
Date Received: 6/29/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/7/2009 7:40:50 PM
Toluene	ND	0.050		mg/Kg	1	7/7/2009 7:40:50 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/7/2009 7:40:50 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/7/2009 7:40:50 PM
Surr: 4-Bromofluorobenzene	92.3	66.8-139		%REC	1	7/7/2009 7:40:50 PM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	180	6.0		mg/Kg	20	7/6/2009 11:11:30 PM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	7/1/2009

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 5 of 12

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0906596
Project: Landfarms Semi-Annual
Lab ID: 0906596-06

Client Sample ID: LFOCD-006-062509
Collection Date: 6/25/2009 2:45:00 PM
Date Received: 6/29/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/7/2009 8:11:23 PM
Toluene	ND	0.050		mg/Kg	1	7/7/2009 8:11:23 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/7/2009 8:11:23 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/7/2009 8:11:23 PM
Surr: 4-Bromofluorobenzene	91.6	66.8-139		%REC	1	7/7/2009 8:11:23 PM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	240	6.0		mg/Kg	20	7/6/2009 11:28:55 PM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	180	20		mg/Kg	1	7/1/2009

Qualifiers: * Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

Page 6 of 12

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0906596
Project: Landfarms Semi-Annual
Lab ID: 0906596-07

Client Sample ID: LFNE-007-062509
Collection Date: 6/25/2009 3:15:00 PM
Date Received: 6/29/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						
Chloride	140	6.0		mg/Kg	20	Analyst: TAF 7/6/2009 11:46:19 PM
EPA METHOD 418.1: TPH						
Petroleum Hydrocarbons, TR	240	20		mg/Kg	1	Analyst: LRW 7/1/2009

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 7 of 12

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0906596
Project: Landfarms Semi-Annual
Lab ID: 0906596-08

Client Sample ID: LFNE-008-062509
Collection Date: 6/25/2009 3:30:00 PM
Date Received: 6/29/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DI ²	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/8/2009 2:16:09 AM
Toluene	ND	0.050		mg/Kg	1	7/8/2009 2:16:09 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/8/2009 2:16:09 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/8/2009 2:16:09 AM
Surr: 4-Bromofluorobenzene	96.6	66.8-139		%REC	1	7/8/2009 2:16:09 AM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	87	6.0		mg/Kg	20	7/7/2009 12:55:56 AM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	24	20		mg/Kg	1	7/1/2009

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
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Page 8 of 12

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0906596
Project: Landfarms Semi-Annual
Lab ID: 0906596-09

Client Sample ID: LFNE-009-062509
Collection Date: 6/25/2009 3:45:00 PM
Date Received: 6/29/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/8/2009 2:46:27 AM
Toluene	ND	0.050		mg/Kg	1	7/8/2009 2:46:27 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/8/2009 2:46:27 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/8/2009 2:46:27 AM
Surr: 4-Bromofluorobenzene	96.8	66.8-139		%REC	1	7/8/2009 2:46:27 AM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	130	8.0		mg/Kg	20	7/7/2009 1:13:21 AM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	39	20		mg/Kg	1	7/1/2009

Qualifiers: * Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

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RL Reporting Limit

Page 9 of 12

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0906596
Project: Landfarms Semi-Annual
Lab ID: 0906596-10

Client Sample ID: LFNE-010-062509
Collection Date: 6/25/2009 4:00:00 PM
Date Received: 6/29/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/8/2009 3:17:04 AM
Toluene	ND	0.050		mg/Kg	1	7/8/2009 3:17:04 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/8/2009 3:17:04 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/8/2009 3:17:04 AM
Surf: 4-Bromofluorobenzene	90.9	66.8-139		%REC	1	7/8/2009 3:17:04 AM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	150	6.0		mg/Kg	20	7/7/2009 1:30:45 AM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	36	20		mg/Kg	1	7/1/2009

Qualifiers: * Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

Page 10 of 12

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0906596
Project: Landfarms Semi-Annual
Lab ID: 0906596-11

Client Sample ID: LFNE-011-062509
Collection Date: 6/25/2009 4:30:00 PM
Date Received: 6/29/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/8/2009 3:47:29 AM
Toluene	ND	0.050		mg/Kg	1	7/8/2009 3:47:29 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/8/2009 3:47:29 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/8/2009 3:47:29 AM
Surr: 4-Bromofluorobenzene	93.1	66.8-139		%REC	1	7/8/2009 3:47:29 AM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	150	6.0		mg/Kg	20	7/7/2009 1:48:10 AM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	7/1/2009

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 11 of 12

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jul-09

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: RRFOA-001-062509

Lab Order: 0906596

Collection Date: 6/25/2009 4:30:00 PM

Project: Landfarms Semi-Annual

Date Received: 6/29/2009

Lab ID: 0906596-12

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	2900	100		mg/Kg	10	7/6/2009
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	7/6/2009
Surr: DNOP	0	61.7-135	S	%REC	10	7/6/2009

Qualifiers: * Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

Page 12 of 12

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Landfarms Semi-Annual

Work Order: 0906596

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions									
Sample ID: 0906596-04AMSD		MSD							
Chloride	250.6	mg/Kg	3.0	101	53.9	146	9.04	20	
Sample ID: MB-19525		MBLK							
Chloride	ND	mg/Kg	0.30						
Sample ID: MB-19543		MBLK							
Chloride	ND	mg/Kg	0.30						
Sample ID: LCS-19526		LCS							
Chloride	14.59	mg/Kg	0.30	97.3	90	110			
Sample ID: LCS-19543		LCS							
Chloride	14.73	mg/Kg	0.30	98.2	90	110			
Sample ID: 0906596-04AMS		MS							
Chloride	229.0	mg/Kg	3.0	-43.8	53.9	146			S

Method: EPA Method 418.1: TPH									
Sample ID: 0906596-10AMSD		MSD							
Petroleum Hydrocarbons, TR	127.7	mg/Kg	20	92.0	82	114	1.74	20	
Sample ID: MB-19521		MBLK							
Petroleum Hydrocarbons, TR	ND	mg/Kg	20						
Sample ID: LCS-19521		LCS							
Petroleum Hydrocarbons, TR	94.90	mg/Kg	20	94.9	82	114			
Sample ID: 0906596-10AMS		MS							
Petroleum Hydrocarbons, TR	125.5	mg/Kg	20	89.8	82	114			

Method: EPA Method 8015B: Diesel Range Organics									
Sample ID: MB-19509		MBLK							
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Motor Oil Range Organics (MRO)	ND	mg/Kg	50						
Sample ID: LCS-19509		LCS							
Diesel Range Organics (DRO)	54.78	mg/Kg	10	110	64.6	116			
Sample ID: LCSD-19509		LCSD							
Diesel Range Organics (DRO)	56.89	mg/Kg	10	114	64.6	116	3.77	17.4	

Qualifiers:

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

Page 1

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: Landfills Semi-Annual

Work Order: 0906596

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: EPA Method 8021B: Volatiles

Sample ID: MB-19506

MBLK

Batch ID: 19506 Analysis Date: 7/6/2009 7:08:00 PM

Benzene	ND	mg/Kg	0.050
Toluene	ND	mg/Kg	0.050
Ethylbenzene	ND	mg/Kg	0.050
Xylenes, Total	ND	mg/Kg	0.10

Sample ID: LCS-19506

LCS

Batch ID: 19506 Analysis Date: 7/6/2009 6:07:04 PM

Benzene	0.8697	mg/Kg	0.050	85.3	78.8	132
Toluene	0.8987	mg/Kg	0.050	89.9	78.9	112
Ethylbenzene	0.9764	mg/Kg	0.050	97.6	69.3	125
Xylenes, Total	2.908	mg/Kg	0.10	96.9	73	128

Sample ID: LCSD-19506

LCSD

Batch ID: 19506 Analysis Date: 7/6/2009 6:37:31 PM

Benzene	0.9850	mg/Kg	0.050	96.9	78.8	132	12.4	27
Toluene	0.9929	mg/Kg	0.050	99.3	78.9	112	9.96	19
Ethylbenzene	1.082	mg/Kg	0.050	108	69.3	125	10.2	10
Xylenes, Total	3.232	mg/Kg	0.10	108	73	128	10.6	13

R

Qualifiers:

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

Page 2

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU

Date Received:

6/29/2009

Work Order Number 0906596

Received by: AMF

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name: Client drop-off

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐	Not Shipped ☒
Custody seals intact on sample bottles?	Yes ☒	No ☐	N/A ☐	
Chain of custody present?	Yes ☒	No ☐		
Chain of custody signed when relinquished and received?	Yes ☒	No ☐		
Chain of custody agrees with sample labels?	Yes ☒	No ☐		
Samples in proper container/bottle?	Yes ☒	No ☐		
Sample containers intact?	Yes ☒	No ☐		
Sufficient sample volume for indicated test?	Yes ☒	No ☐		
All samples received within holding time?	Yes ☒	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☒	Yes ☐	No ☐	Number of preserved bottles checked for pH: _____
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☒	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒	<2 >12 unless noted below.
Container/Temp Blank temperature?	7.5°	<6° C Acceptable If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: WESTERN REFINING

Mailing Address: GALLUP, NM

Phone #: 505 722 3833

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

☐ Other

☐ EDD (Type) _____

Project Manager:

GAURAV RAJEN

Sampler: ALVIN DORSEY/RAJ

Office: EDS/ENING

Sample temperature: 75

Container Type and #

Preservative Type

HEAT NO.

0910105210

Date

Time

Matrix

Sample Request ID

6/25 1:30

501L

LFQCD-001-062509

6/25 1:45

501L

LFQCD-002-062509

6/25 2:00

"

LFQCD-003-062509

6/25 2:15

"

LFQCD-004-062509

6/25 2:30

"

LFQCD-005-062509

6/25 2:45

"

LFQCD-006-062509

6/25 3:15

"

LFNE-007-062509

6/25 3:30

"

LFNE-008-062509

6/25 3:45

"

LFNE-009-062509

6/25 4:00

"

LFNE-010-062509

6/25 4:15

"

LFNE-011-062509

6/25 4:30

"

RRFOA-001-062509

6/29/09 1320

Gaurav Rajen

Received by:

Relinquished by:

Date:

Time:

Relinquished by:

Date:

Time:

Received by:

Date:

Time:

Remarks:

TPH Method 8015B (Gas/Diesel)

BTX + MTBE + TMBs (8021)

BTX + MTBE + TMBs (8021)

TPH Method 8015B (Gas/Diesel)

TPH (Method 418.1)

EDB (Method 504.1)

8310 (PNA or PAH)

RCRA 8 Metals

Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)

8081 Pesticides / 8082 PCBs

8260B (VOA)

8270 (Semi-VOA)

Chlorides 300.0

Air Bubbles (Y or N)

Analysis Request:

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

www.hallenenvironmental.com

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Turn-Around Time:

Standard

Rush

Project Name:

LAND FARMS

SEMI-ANNUAL

Project #:

09-01

Received by:

Date:

Time:

Received by:

Date:

Time:

Remarks:

TPH Method 8015B (Gas/Diesel)

BTX + MTBE + TMBs (8021)

BTX + MTBE + TMBs (8021)

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BTX + MTBE + TMBs (8021)

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Turn-Around Time:

Standard

Rush

Project Name:

LAND FARMS

SEMI-ANNUAL

Project #:

09-01

Received by:

Date:

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Date:

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Remarks:

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BTX + MTBE + TMBs (8021)

BTX + MTBE + TMBs (8021)

TPH Method 8015B (Gas/Diesel)

TPH (Method 418.1)

EDB (Method 504.1)

8310 (PNA or PAH)

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Friday, January 23, 2009 12:38 PM
To: 'Riege, Ed'
Cc: 'Rajen, Gaurav'; Monzeglio, Hope, NMENV; VonGonten, Glenn, EMNRD
Subject: GW-32 Discharge Permit Item 16(F) Temporary Landfarms Deadline Exceeded

Re: 16(F) Temporary Landfarms: A closure plan for any temporary landfarm(s) or land treatment area(s) shall be submitted to the OCD by December 31, 2007.

Ed:

It was a pleasure meeting with Western Refining Southwest (WRSW)- Gallup Refinery on Wednesday, January 21, 2009 to discuss the Waste Water Treatment System Engineering Plans and other discharge permit items due in March of 2009.

A discussion item that came up by the OCD was the temporary landfarm area where WRSW appears to have missed the discharge permit deadline. You may recall that the OCD extended the deadline in a "Minor Modification"; however, WRSW missed this deadline. WRSW apparently has plans to utilize the temporary landfarm area near the Rail Road Lagoon Rack for bioremediation of a RCRA SWMU. WRSW has a permitted landfarm on its premises with provisions for operation and monitoring in the discharge permit. The OCD requests that WRSW consider utilizing the permitted landfarms instead of the temporary landfarm areas, since the OCD included Item 16(F) to close the temporary landfarm area as a provision of the recently issued discharge permit.

During the meeting the OCD requested that WRSW address this item by responding to the OCD via e-mail with an anticipated time period for use and closure date to utilize the temporary landfarm areas for bioremediation of contaminated soils near the Rail-Road Lagoon Rack Area RCRA cleanup. The OCD may decide what to do upon receipt.

In addition, provide the OCD with a date that WRSW can submit a closure plan for the temporary landfarms well in advance of closure, for example within 90 days of receipt of this e-mail. The closure plan could include elements of the landfarm in the discharge permit. The OCD would prefer that WRSW work to close the temporary landfill areas now rather than later, as WRSW already has a nearby landfarm area that is managed under the recently issued discharge permit.

Please let me know based on the above WRSW's intent. The OCD may require a Modification to the permit depending on what WRSW plans to do. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/ocd/index.htm>
(Pollution Prevention Guidance is under "Publications")