

AP - 111

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

Investigation Report (7)

August 2015

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 0804138
 Project: Evaporation Pond/Acration Lagoon
 Lab ID: 0804138-26

Client Sample ID: AL2-2-HP
 Collection Date: 4/8/2008 3:15:00 PM
 Date Received: 4/11/2008
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Chloronaphthalene	ND	38		mg/Kg	1	4/18/2008
2-Chlorophenol	ND	30		mg/Kg	1	4/18/2008
4-Chlorophenyl phenyl ether	ND	30		mg/Kg	1	4/18/2008
Chrysene	ND	30		mg/Kg	1	4/18/2008
Di-n-butyl phthalate	ND	75		mg/Kg	1	4/18/2008
Di-n-octyl phthalate	ND	30		mg/Kg	1	4/18/2008
Dibenz(a,h)anthracene	ND	30		mg/Kg	1	4/18/2008
Dibenzofuran	ND	30		mg/Kg	1	4/18/2008
1,2-Dichlorobenzene	ND	30		mg/Kg	1	4/18/2008
1,3-Dichlorobenzene	ND	30		mg/Kg	1	4/18/2008
1,4-Dichlorobenzene	ND	30		mg/Kg	1	4/18/2008
3,3'-Dichlorobenzidine	ND	38		mg/Kg	1	4/18/2008
Diethyl phthalate	ND	30		mg/Kg	1	4/18/2008
Dimethyl phthalate	ND	30		mg/Kg	1	4/18/2008
2,4-Dichlorophenol	ND	30		mg/Kg	1	4/18/2008
2,4-Dimethylphenol	ND	45		mg/Kg	1	4/18/2008
4,6-Dinitro-2-methylphenol	ND	75		mg/Kg	1	4/18/2008
2,4-Dinitrophenol	ND	75		mg/Kg	1	4/18/2008
2,4-Dinitrotoluene	ND	75		mg/Kg	1	4/18/2008
2,6-Dinitrotoluene	ND	75		mg/Kg	1	4/18/2008
Fluoranthene	ND	38		mg/Kg	1	4/18/2008
Fluorene	36	30		mg/Kg	1	4/18/2008
Hexachlorobenzene	ND	30		mg/Kg	1	4/18/2008
Hexachlorobutadiene	ND	30		mg/Kg	1	4/18/2008
Hexachlorocyclopentadiene	ND	30		mg/Kg	1	4/18/2008
Hexachloroethane	ND	30		mg/Kg	1	4/18/2008
Indeno(1,2,3-cd)pyrene	ND	38		mg/Kg	1	4/18/2008
Isophorone	ND	75		mg/Kg	1	4/18/2008
2-Methylnaphthalene	140	38		mg/Kg	1	4/18/2008
2-Methylphenol	ND	75		mg/Kg	1	4/18/2008
3+4-Methylphenol	36	30		mg/Kg	1	4/18/2008
N-Nitrosodi-n-propylamine	ND	30		mg/Kg	1	4/18/2008
N-Nitrosodiphenylamine	ND	30		mg/Kg	1	4/18/2008
Naphthalene	ND	30		mg/Kg	1	4/18/2008
2-Nitroaniline	ND	30		mg/Kg	1	4/18/2008
3-Nitroaniline	ND	30		mg/Kg	1	4/18/2008
4-Nitroaniline	ND	38		mg/Kg	1	4/18/2008
Nitrobenzene	ND	75		mg/Kg	1	4/18/2008
2-Nitrophenol	ND	30		mg/Kg	1	4/18/2008
4-Nitrophenol	ND	30		mg/Kg	1	4/18/2008
Pentachlorophenol	ND	50		mg/Kg	1	4/18/2008
Phenanthrene	93	30		mg/Kg	1	4/18/2008

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 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

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EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Phenol	ND	30		mg/Kg	1	4/18/2008
Pyrene	ND	30		mg/Kg	1	4/18/2008
Pyridine	ND	75		mg/Kg	1	4/18/2008
1,2,4-Trichlorobenzene	ND	30		mg/Kg	1	4/18/2008
2,4,5-Trichlorophenol	ND	30		mg/Kg	1	4/18/2008
2,4,6-Trichlorophenol	ND	30		mg/Kg	1	4/18/2008
Surr: 2,4,6-Tribromophenol	52.0	35.5-141		%REC	1	4/18/2008
Surr: 2-Fluorobiphenyl	79.6	30.4-128		%REC	1	4/18/2008
Surr: 2-Fluorophenol	94.1	28.1-129		%REC	1	4/18/2008
Surr: 4-Terphenyl-d14	45.5	34.6-151		%REC	1	4/18/2008
Surr: Nitrobenzene-d5	72.9	26.5-122		%REC	1	4/18/2008
Surr: Phenol-d5	69.5	37.8-118		%REC	1	4/18/2008
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Benzene	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
Toluene	1.1	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
Ethylbenzene	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
Methyl tert-butyl ether (MTBE)	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
1,2,4-Trimethylbenzene	3.0	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
1,3,5-Trimethylbenzene	0.71	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
1,2-Dichloroethane (EDC)	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
1,2-Dibromoethane (EDB)	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
Naphthalene	3.2	1.0		mg/Kg	10	4/20/2008 4:37:50 AM
1-Methylnaphthalene	11	2.0		mg/Kg	10	4/20/2008 4:37:50 AM
2-Methylnaphthalene	15	2.0		mg/Kg	10	4/20/2008 4:37:50 AM
Acetone	ND	7.5		mg/Kg	10	4/20/2008 4:37:50 AM
Bromobenzene	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
Bromodichloromethane	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
Bromoform	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
Bromomethane	ND	1.0		mg/Kg	10	4/20/2008 4:37:50 AM
2-Butanone	ND	5.0		mg/Kg	10	4/20/2008 4:37:50 AM
Carbon disulfide	ND	5.0		mg/Kg	10	4/20/2008 4:37:50 AM
Carbon tetrachloride	ND	1.0		mg/Kg	10	4/20/2008 4:37:50 AM
Chlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
Chloroethane	ND	1.0		mg/Kg	10	4/20/2008 4:37:50 AM
Chloroform	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
Chloromethane	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
2-Chlorotoluene	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
4-Chlorotoluene	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
cis-1,2-DCE	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
cis-1,3-Dichloropropene	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
1,2-Dibromo-3-chloropropane	ND	1.0		mg/Kg	10	4/20/2008 4:37:50 AM

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ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

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Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Dibromochloromethane	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
Dibromomethane	ND	1.0		mg/Kg	10	4/20/2008 4:37:50 AM
1,2-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
1,3-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
1,4-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
Dichlorodifluoromethane	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
1,1-Dichloroethane	ND	1.0		mg/Kg	10	4/20/2008 4:37:50 AM
1,1-Dichloroethene	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
1,2-Dichloropropane	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
1,3-Dichloropropane	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
2,2-Dichloropropane	ND	1.0		mg/Kg	10	4/20/2008 4:37:50 AM
1,1-Dichloropropene	ND	1.0		mg/Kg	10	4/20/2008 4:37:50 AM
Hexachlorobutadiene	ND	1.0		mg/Kg	10	4/20/2008 4:37:50 AM
2-Hexanone	ND	5.0		mg/Kg	10	4/20/2008 4:37:50 AM
Isopropylbenzene	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
4-Isopropyltoluene	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
4-Methyl-2-pentanone	ND	5.0		mg/Kg	10	4/20/2008 4:37:50 AM
Methylene chloride	ND	1.5		mg/Kg	10	4/20/2008 4:37:50 AM
n-Butylbenzene	0.58	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
n-Propylbenzene	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
sec-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
Styrene	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
tert-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
1,1,1,2-Tetrachloroethane	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
1,1,2,2-Tetrachloroethane	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
Tetrachloroethene (PCE)	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
trans-1,2-DCE	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
trans-1,3-Dichloropropene	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
1,2,3-Trichlorobenzene	ND	1.0		mg/Kg	10	4/20/2008 4:37:50 AM
1,2,4-Trichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
1,1,1-Trichloroethane	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
1,1,2-Trichloroethane	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
Trichloroethene (TCE)	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
Trichlorofluoromethane	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
1,2,3-Trichloropropane	ND	1.0		mg/Kg	10	4/20/2008 4:37:50 AM
Vinyl chloride	ND	0.50		mg/Kg	10	4/20/2008 4:37:50 AM
Xylenes, Total	3.8	1.0		mg/Kg	10	4/20/2008 4:37:50 AM
Surr: 1,2-Dichloroethane-d4	96.2	68.7-122		%REC	10	4/20/2008 4:37:50 AM
Surr: 4-Bromofluorobenzene	89.8	79.3-126		%REC	10	4/20/2008 4:37:50 AM
Surr: Dibromofluoromethane	99.7	64.4-119		%REC	10	4/20/2008 4:37:50 AM
Surr: Toluene-d8	97.3	86.5-121		%REC	10	4/20/2008 4:37:50 AM

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H Holding times for preparation or analysis exceeded
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Date: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-27

Client Sample ID: AL2-3-HP
Collection Date: 4/8/2008 12:15:00 PM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	110000	5000		mg/Kg	50	4/17/2008 2:02:53 PM
Motor Oil Range Organics (MRO)	ND	25000		mg/Kg	50	4/17/2008 2:02:53 PM
Surr: DNOP	0	61.7-135	S	%REC	50	4/17/2008 2:02:53 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	100		mg/Kg	20	4/19/2008 3:53:29 AM
Surr: BFB	105	84-138		%REC	20	4/19/2008 3:53:29 AM
EPA METHOD 7471: MERCURY						Analyst: SNV
Mercury	2.1	1.6		mg/Kg	50	4/28/2008 3:04:16 PM
EPA METHOD 6010B: SOIL METALS						Analyst: NMO
Arsenic	9.8	2.5		mg/Kg	1	4/23/2008 8:17:38 AM
Barium	280	1.0		mg/Kg	10	4/23/2008 9:38:38 AM
Cadmium	0.26	0.10		mg/Kg	1	4/23/2008 8:17:38 AM
Chromium	15	0.30		mg/Kg	1	4/23/2008 8:17:38 AM
Lead	12	0.25		mg/Kg	1	4/28/2008 9:46:47 AM
Selenium	ND	25		mg/Kg	10	4/23/2008 9:38:38 AM
Silver	ND	0.25		mg/Kg	1	4/28/2008 9:46:47 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	30		mg/Kg	1	4/18/2008
Acenaphthylene	ND	30		mg/Kg	1	4/18/2008
Aniline	ND	30		mg/Kg	1	4/18/2008
Anthracene	ND	30		mg/Kg	1	4/18/2008
Azobenzene	ND	30		mg/Kg	1	4/18/2008
Benz(a)anthracene	ND	30		mg/Kg	1	4/18/2008
Benzo(a)pyrene	ND	30		mg/Kg	1	4/18/2008
Benzo(b)fluoranthene	ND	30		mg/Kg	1	4/18/2008
Benzo(g,h,i)perylene	ND	75		mg/Kg	1	4/18/2008
Benzo(k)fluoranthene	ND	30		mg/Kg	1	4/18/2008
Benzoic acid	ND	50		mg/Kg	1	4/18/2008
Benzyl alcohol	ND	30		mg/Kg	1	4/18/2008
Bis(2-chloroethoxy)methane	ND	30		mg/Kg	1	4/18/2008
Bis(2-chloroethyl)ether	ND	30		mg/Kg	1	4/18/2008
Bis(2-chloroisopropyl)ether	ND	30		mg/Kg	1	4/18/2008
Bis(2-ethylhexyl)phthalate	ND	75		mg/Kg	1	4/18/2008
4-Bromophenyl phenyl ether	ND	30		mg/Kg	1	4/18/2008
Butyl benzyl phthalate	ND	30		mg/Kg	1	4/18/2008
Carbazole	ND	30		mg/Kg	1	4/18/2008
4-Chloro-3-methylphenol	ND	75		mg/Kg	1	4/18/2008
4-Chloroaniline	ND	75		mg/Kg	1	4/18/2008

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EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Chloronaphthalene	ND	38		mg/Kg	1	4/18/2008
2-Chlorophenol	ND	30		mg/Kg	1	4/18/2008
4-Chlorophenyl phenyl ether	ND	30		mg/Kg	1	4/18/2008
Chrysene	ND	30		mg/Kg	1	4/18/2008
Di-n-butyl phthalate	ND	75		mg/Kg	1	4/18/2008
Di-n-octyl phthalate	ND	30		mg/Kg	1	4/18/2008
Dibenz(a,h)anthracene	ND	30		mg/Kg	1	4/18/2008
Dibenzofuran	ND	30		mg/Kg	1	4/18/2008
1,2-Dichlorobenzene	ND	30		mg/Kg	1	4/18/2008
1,3-Dichlorobenzene	ND	30		mg/Kg	1	4/18/2008
1,4-Dichlorobenzene	ND	30		mg/Kg	1	4/18/2008
3,3'-Dichlorobenzidine	ND	38		mg/Kg	1	4/18/2008
Diethyl phthalate	ND	30		mg/Kg	1	4/18/2008
Dimethyl phthalate	ND	30		mg/Kg	1	4/18/2008
2,4-Dichlorophenol	ND	30		mg/Kg	1	4/18/2008
2,4-Dimethylphenol	ND	45		mg/Kg	1	4/18/2008
4,6-Dinitro-2-methylphenol	ND	75		mg/Kg	1	4/18/2008
2,4-Dinitrophenol	ND	75		mg/Kg	1	4/18/2008
2,4-Dinitrotoluene	ND	75		mg/Kg	1	4/18/2008
2,6-Dinitrotoluene	ND	75		mg/Kg	1	4/18/2008
Fluoranthene	ND	38		mg/Kg	1	4/18/2008
Fluorene	32	30		mg/Kg	1	4/18/2008
Hexachlorobenzene	ND	30		mg/Kg	1	4/18/2008
Hexachlorobutadiene	ND	30		mg/Kg	1	4/18/2008
Hexachlorocyclopentadiene	ND	30		mg/Kg	1	4/18/2008
Hexachloroethane	ND	30		mg/Kg	1	4/18/2008
Indeno(1,2,3-cd)pyrene	ND	38		mg/Kg	1	4/18/2008
Isophorone	ND	75		mg/Kg	1	4/18/2008
2-Methylnaphthalene	110	38		mg/Kg	1	4/18/2008
2-Methylphenol	ND	75		mg/Kg	1	4/18/2008
3+4-Methylphenol	44	30		mg/Kg	1	4/18/2008
N-Nitrosodi-n-propylamine	ND	30		mg/Kg	1	4/18/2008
N-Nitrosodiphenylamine	ND	30		mg/Kg	1	4/18/2008
Naphthalene	ND	30		mg/Kg	1	4/18/2008
2-Nitroaniline	ND	30		mg/Kg	1	4/18/2008
3-Nitroaniline	ND	30		mg/Kg	1	4/18/2008
4-Nitroaniline	ND	38		mg/Kg	1	4/18/2008
Nitrobenzene	ND	75		mg/Kg	1	4/18/2008
2-Nitrophenol	ND	30		mg/Kg	1	4/18/2008
4-Nitrophenol	ND	30		mg/Kg	1	4/18/2008
Pentachlorophenol	ND	50		mg/Kg	1	4/18/2008
Phenanthrene	89	30		mg/Kg	1	4/18/2008

Qualifiers:
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EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Phenol	ND	30		mg/Kg	1	4/18/2008
Pyrene	ND	30		mg/Kg	1	4/18/2008
Pyridine	ND	75		mg/Kg	1	4/18/2008
1,2,4-Trichlorobenzene	ND	30		mg/Kg	1	4/18/2008
2,4,5-Trichlorophenol	ND	30		mg/Kg	1	4/18/2008
2,4,6-Trichlorophenol	ND	30		mg/Kg	1	4/18/2008
Surr: 2,4,6-Tribromophenol	47.4	35.5-141		%REC	1	4/18/2008
Surr: 2-Fluorobiphenyl	72.3	30.4-128		%REC	1	4/18/2008
Surr: 2-Fluorophenol	84.8	28.1-129		%REC	1	4/18/2008
Surr: 4-Terphenyl-d14	65.5	34.6-161		%REC	1	4/18/2008
Surr: Nitrobenzene-d5	62.5	26.5-122		%REC	1	4/18/2008
Surr: Phenol-d5	70.2	37.6-118		%REC	1	4/18/2008

EPA METHOD 8260B: VOLATILES

Analyst: BDH

Benzene	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
Toluene	0.53	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
Ethylbenzene	0.62	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
Methyl tert-butyl ether (MTBE)	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
1,2,4-Trimethylbenzene	3.8	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
1,3,5-Trimethylbenzene	0.87	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
1,2-Dichloroethane (EDC)	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
1,2-Dibromoethane (EDB)	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
Naphthalene	3.4	1.0		mg/Kg	10	4/20/2008 5:12:55 AM
1-Methylnaphthalene	12	2.0		mg/Kg	10	4/20/2008 5:12:55 AM
2-Methylnaphthalene	17	2.0		mg/Kg	10	4/20/2008 5:12:55 AM
Acetone	ND	7.5		mg/Kg	10	4/20/2008 5:12:55 AM
Bromobenzene	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
Bromodichloromethane	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
Bromoform	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
Bromomethane	ND	1.0		mg/Kg	10	4/20/2008 5:12:55 AM
2-Butanone	ND	5.0		mg/Kg	10	4/20/2008 5:12:55 AM
Carbon disulfide	ND	5.0		mg/Kg	10	4/20/2008 5:12:55 AM
Carbon tetrachloride	ND	1.0		mg/Kg	10	4/20/2008 5:12:55 AM
Chlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
Chloroethane	ND	1.0		mg/Kg	10	4/20/2008 5:12:55 AM
Chloroform	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
Chloromethane	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
2-Chlorotoluene	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
4-Chlorotoluene	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
cis-1,2-DCE	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
cis-1,3-Dichloropropene	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
1,2-Dibromo-3-chloropropane	ND	1.0		mg/Kg	10	4/20/2008 5:12:55 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 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: 29-Apr-08

CLIENT:	Western Refining Southwest, Gallup	Client Sample ID:	AL2-3-HP
Lab Order:	0804138	Collection Date:	4/8/2008 12:15:00 PM
Project:	Evaporation Pond/Aeration Lagoon	Date Received:	4/11/2008
Lab ID:	0804138-27	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Dibromochloromethane	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
Dibromomethane	ND	1.0		mg/Kg	10	4/20/2008 5:12:55 AM
1,2-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
1,3-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
1,4-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
Dichlorodifluoromethane	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
1,1-Dichloroethane	ND	1.0		mg/Kg	10	4/20/2008 5:12:55 AM
1,1-Dichloroethene	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
1,2-Dichloropropane	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
1,3-Dichloropropane	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
2,2-Dichloropropane	ND	1.0		mg/Kg	10	4/20/2008 5:12:55 AM
1,1-Dichloropropene	ND	1.0		mg/Kg	10	4/20/2008 5:12:55 AM
Hexachlorobutadiene	ND	1.0		mg/Kg	10	4/20/2008 5:12:55 AM
2-Hexanone	ND	5.0		mg/Kg	10	4/20/2008 5:12:55 AM
Isopropylbenzene	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
4-Isopropyltoluene	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
4-Methyl-2-pentanone	ND	5.0		mg/Kg	10	4/20/2008 5:12:55 AM
Methylene chloride	ND	1.5		mg/Kg	10	4/20/2008 5:12:55 AM
n-Butylbenzene	0.89	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
n-Propylbenzene	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
sec-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
Styrene	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
tert-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
1,1,1,2-Tetrachloroethane	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
1,1,2,2-Tetrachloroethane	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
Tetrachloroethene (PCE)	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
trans-1,2-DCE	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
trans-1,3-Dichloropropene	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
1,2,3-Trichlorobenzene	ND	1.0		mg/Kg	10	4/20/2008 5:12:55 AM
1,2,4-Trichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
1,1,1-Trichloroethane	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
1,1,2-Trichloroethane	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
Trichloroethene (TCE)	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
Trichlorofluoromethane	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
1,2,3-Trichloropropane	ND	1.0		mg/Kg	10	4/20/2008 5:12:55 AM
Vinyl chloride	ND	0.50		mg/Kg	10	4/20/2008 5:12:55 AM
Xylenes, Total	4.3	1.0		mg/Kg	10	4/20/2008 5:12:55 AM
Surr: 1,2-Dichloroethane-d4	95.4	68.7-122		%REC	10	4/20/2008 5:12:55 AM
Surr: 4-Bromofluorobenzene	84.0	79.3-126		%REC	10	4/20/2008 5:12:55 AM
Surr: Dibromofluoromethane	103	64.4-119		%REC	10	4/20/2008 5:12:55 AM
Surr: Toluene-d8	92.9	86.5-121		%REC	10	4/20/2008 5:12:55 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-28

Client Sample ID: AL2-4-HP
Collection Date: 4/8/2008 10:15:00 AM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	140000	5000		mg/Kg	50	4/17/2008 2:36:57 PM
Motor Oil Range Organics (MRO)	29000	25000		mg/Kg	50	4/17/2008 2:36:57 PM
Surr: DNOP	0	61.7-135	S	%REC	50	4/17/2008 2:36:57 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	100		mg/Kg	20	4/19/2008 4:23:35 AM
Surr: BFB	104	84-138		%REC	20	4/19/2008 4:23:35 AM
EPA METHOD 7471: MERCURY						Analyst: SNV
Mercury	6.4	1.6		mg/Kg	50	4/28/2008 3:10:53 PM
EPA METHOD 6010B: SOIL METALS						Analyst: NMO
Arsenic	21	2.5		mg/Kg	1	4/23/2008 8:20:15 AM
Barium	270	1.0		mg/Kg	10	4/23/2008 9:41:16 AM
Cadmium	5.2	0.10		mg/Kg	1	4/23/2008 8:20:15 AM
Chromium	45	0.30		mg/Kg	1	4/23/2008 8:20:15 AM
Lead	55	2.5		mg/Kg	10	4/28/2008 11:27:26 AM
Selenium	ND	25		mg/Kg	10	4/23/2008 9:41:16 AM
Silver	ND	0.25		mg/Kg	1	4/28/2008 9:49:16 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	30		mg/Kg	1	4/18/2008
Acenaphthylene	ND	30		mg/Kg	1	4/18/2008
Aniline	ND	30		mg/Kg	1	4/18/2008
Anthracene	ND	30		mg/Kg	1	4/18/2008
Azobenzene	ND	30		mg/Kg	1	4/18/2008
Benz(a)anthracene	ND	30		mg/Kg	1	4/18/2008
Benzo(a)pyrene	ND	30		mg/Kg	1	4/18/2008
Benzo(b)fluoranthene	ND	30		mg/Kg	1	4/18/2008
Benzo(g,h,i)perylene	ND	75		mg/Kg	1	4/18/2008
Benzo(k)fluoranthene	ND	30		mg/Kg	1	4/18/2008
Benzoic acid	ND	50		mg/Kg	1	4/18/2008
Benzyl alcohol	ND	30		mg/Kg	1	4/18/2008
Bis(2-chloroethoxy)methane	ND	30		mg/Kg	1	4/18/2008
Bis(2-chloroethyl)ether	ND	30		mg/Kg	1	4/18/2008
Bis(2-chloroisopropyl)ether	ND	30		mg/Kg	1	4/18/2008
Bis(2-ethylhexyl)phthalate	ND	75		mg/Kg	1	4/18/2008
4-Bromophenyl phenyl ether	ND	30		mg/Kg	1	4/18/2008
Butyl benzyl phthalate	ND	30		mg/Kg	1	4/18/2008
Carbazole	ND	30		mg/Kg	1	4/18/2008
4-Chloro-3-methylphenol	ND	75		mg/Kg	1	4/18/2008
4-Chloroaniline	ND	75		mg/Kg	1	4/18/2008

Qualifiers:

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- E Value above quantitation range
- 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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-28

Client Sample ID: AL2-4-HP
Collection Date: 4/8/2008 10:15:00 AM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Chloronaphthalene	ND	38		mg/Kg	1	4/18/2008
2-Chlorophenol	ND	30		mg/Kg	1	4/18/2008
4-Chlorophenyl phenyl ether	ND	30		mg/Kg	1	4/18/2008
Chrysene	ND	30		mg/Kg	1	4/18/2008
Di-n-butyl phthalate	ND	75		mg/Kg	1	4/18/2008
Di-n-octyl phthalate	ND	30		mg/Kg	1	4/18/2008
Dibenz(a,h)anthracene	ND	30		mg/Kg	1	4/18/2008
Dibenzofuran	ND	30		mg/Kg	1	4/18/2008
1,2-Dichlorobenzene	ND	30		mg/Kg	1	4/18/2008
1,3-Dichlorobenzene	ND	30		mg/Kg	1	4/18/2008
1,4-Dichlorobenzene	ND	30		mg/Kg	1	4/18/2008
3,3'-Dichlorobenzidine	ND	38		mg/Kg	1	4/18/2008
Diethyl phthalate	ND	30		mg/Kg	1	4/18/2008
Dimethyl phthalate	ND	30		mg/Kg	1	4/18/2008
2,4-Dichlorophenol	ND	30		mg/Kg	1	4/18/2008
2,4-Dimethylphenol	ND	45		mg/Kg	1	4/18/2008
4,6-Dinitro-2-methylphenol	ND	75		mg/Kg	1	4/18/2008
2,4-Dinitrophenol	ND	75		mg/Kg	1	4/18/2008
2,4-Dinitrotoluene	ND	75		mg/Kg	1	4/18/2008
2,6-Dinitrotoluene	ND	75		mg/Kg	1	4/18/2008
Fluoranthene	ND	38		mg/Kg	1	4/18/2008
Fluorene	ND	30		mg/Kg	1	4/18/2008
Hexachlorobenzene	ND	30		mg/Kg	1	4/18/2008
Hexachlorobutadiene	ND	30		mg/Kg	1	4/18/2008
Hexachlorocyclopentadiene	ND	30		mg/Kg	1	4/18/2008
Hexachloroethane	ND	30		mg/Kg	1	4/18/2008
Indeno(1,2,3-cd)pyrene	ND	38		mg/Kg	1	4/18/2008
Isophorone	ND	75		mg/Kg	1	4/18/2008
2-Methylnaphthalene	57	38		mg/Kg	1	4/18/2008
2-Methylphenol	ND	75		mg/Kg	1	4/18/2008
3+4-Methylphenol	100	30		mg/Kg	1	4/18/2008
N-Nitrosodi-n-propylamine	ND	30		mg/Kg	1	4/18/2008
N-Nitrosodiphenylamine	ND	30		mg/Kg	1	4/18/2008
Naphthalene	ND	30		mg/Kg	1	4/18/2008
2-Nitroaniline	ND	30		mg/Kg	1	4/18/2008
3-Nitroaniline	ND	30		mg/Kg	1	4/18/2008
4-Nitroaniline	ND	38		mg/Kg	1	4/18/2008
Nitrobenzene	ND	75		mg/Kg	1	4/18/2008
2-Nitrophenol	ND	30		mg/Kg	1	4/18/2008
4-Nitrophenol	ND	30		mg/Kg	1	4/18/2008
Pentachlorophenol	ND	50		mg/Kg	1	4/18/2008
Phenanthrene	55	30		mg/Kg	1	4/18/2008

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-28

Client Sample ID: AL2-4-HP
Collection Date: 4/8/2008 10:15:00 AM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Phenol	43	30		mg/Kg	1	4/18/2008
Pyrene	ND	30		mg/Kg	1	4/18/2008
Pyridine	ND	75		mg/Kg	1	4/18/2008
1,2,4-Trichlorobenzene	ND	30		mg/Kg	1	4/18/2008
2,4,5-Trichlorophenol	ND	30		mg/Kg	1	4/18/2008
2,4,6-Trichlorophenol	ND	30		mg/Kg	1	4/18/2008
Surr: 2,4,6-Tribromophenol	56.1	35.6-141		%REC	1	4/18/2008
Surr: 2-Fluorobiphenyl	86.0	30.4-128		%REC	1	4/18/2008
Surr: 2-Fluorophenol	90.9	28.1-129		%REC	1	4/18/2008
Surr: 4-Terphenyl-d14	55.1	34.6-151		%REC	1	4/18/2008
Surr: Nitrobenzene-d5	69.9	26.5-122		%REC	1	4/18/2008
Surr: Phenol-d5	73.8	37.6-118		%REC	1	4/18/2008
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Benzene	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
Toluene	1.1	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
Ethylbenzene	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
Methyl tert-butyl ether (MTBE)	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
1,3,5-Trimethylbenzene	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
1,2-Dichloroethane (EDC)	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
Naphthalene	1.6	1.0		mg/Kg	10	4/20/2008 5:48:30 AM
1-Methylnaphthalene	5.7	2.0		mg/Kg	10	4/20/2008 5:48:30 AM
2-Methylnaphthalene	7.2	2.0		mg/Kg	10	4/20/2008 5:48:30 AM
Acetone	ND	7.5		mg/Kg	10	4/20/2008 5:48:30 AM
Bromobenzene	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
Bromodichloromethane	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
Bromoform	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
Bromomethane	ND	1.0		mg/Kg	10	4/20/2008 5:48:30 AM
2-Butanone	ND	5.0		mg/Kg	10	4/20/2008 5:48:30 AM
Carbon disulfide	ND	5.0		mg/Kg	10	4/20/2008 5:48:30 AM
Carbon tetrachloride	ND	1.0		mg/Kg	10	4/20/2008 5:48:30 AM
Chlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
Chloroethane	ND	1.0		mg/Kg	10	4/20/2008 5:48:30 AM
Chloroform	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
Chloromethane	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
2-Chlorotoluene	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
4-Chlorotoluene	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
cis-1,2-DCE	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
cis-1,3-Dichloropropene	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
Dibromochloromethane	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
Dibromomethane	ND	1.0		mg/Kg	10	4/20/2008 5:48:30 AM
1,3-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- 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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-28

Client Sample ID: AL2-4-HP
Collection Date: 4/8/2008 10:15:00 AM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: BDH
1,4-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
Dichlorodifluoromethane	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
1,1-Dichloroethane	ND	1.0		mg/Kg	10	4/20/2008 5:48:30 AM
1,1-Dichloroethene	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
1,2-Dichloropropane	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
1,3-Dichloropropane	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
2,2-Dichloropropane	ND	1.0		mg/Kg	10	4/20/2008 5:48:30 AM
1,1-Dichloropropene	ND	1.0		mg/Kg	10	4/20/2008 5:48:30 AM
Hexachlorobutadiene	ND	1.0		mg/Kg	10	4/20/2008 5:48:30 AM
2-Hexanone	ND	5.0		mg/Kg	10	4/20/2008 5:48:30 AM
Isopropylbenzene	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
4-Isopropyltoluene	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
4-Methyl-2-pentanone	ND	5.0		mg/Kg	10	4/20/2008 5:48:30 AM
Methylene chloride	ND	1.5		mg/Kg	10	4/20/2008 5:48:30 AM
n-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
n-Propylbenzene	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
sec-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
Styrene	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
tert-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
1,1,1,2-Tetrachloroethane	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
1,1,2,2-Tetrachloroethane	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
Tetrachloroethene (PCE)	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
trans-1,2-DCE	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
trans-1,3-Dichloropropene	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
1,2,3-Trichlorobenzene	ND	1.0		mg/Kg	10	4/20/2008 5:48:30 AM
1,1,1-Trichloroethane	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
1,1,2-Trichloroethane	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
Trichloroethene (TCE)	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
Trichlorofluoromethane	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
1,2,3-Trichloropropane	ND	1.0		mg/Kg	10	4/20/2008 5:48:30 AM
Vinyl chloride	ND	0.50		mg/Kg	10	4/20/2008 5:48:30 AM
Xylenes, Total	3.2	1.0		mg/Kg	10	4/20/2008 5:48:30 AM
Surr: 1,2-Dichloroethane-d4	98.5	68.7-122		%REC	10	4/20/2008 5:48:30 AM
Surr: 4-Bromofluorobenzene	93.6	79.3-126		%REC	10	4/20/2008 5:48:30 AM
Surr: Dibromofluoromethane	104	64.4-119		%REC	10	4/20/2008 5:48:30 AM
Surr: Toluene-d8	98.0	86.5-121		%REC	10	4/20/2008 5:48:30 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-29

Client Sample ID: AL2-5-HP
Collection Date: 4/9/2008 8:20:00 AM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	51000	5000		mg/Kg	50	4/18/2008 5:30:48 PM
Motor Oil Range Organics (MRO)	ND	25000		mg/Kg	50	4/18/2008 5:30:48 PM
Surr: DNOP	0	61.7-135	S	%REC	50	4/18/2008 5:30:48 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	100		mg/Kg	20	4/19/2008 4:53:43 AM
Surr: BFB	102	84-138		%REC	20	4/19/2008 4:53:43 AM
EPA METHOD 7471: MERCURY						Analyst: SNV
Mercury	4.7	1.6		mg/Kg	50	4/28/2008 3:14:09 PM
EPA METHOD 6010B: SOIL METALS						Analyst: NMO
Arsenic	14	2.5		mg/Kg	1	4/23/2008 8:29:01 AM
Barium	160	1.0		mg/Kg	10	4/23/2008 9:44:13 AM
Cadmium	0.62	0.10		mg/Kg	1	4/23/2008 8:29:01 AM
Chromium	53	3.0		mg/Kg	10	4/23/2008 9:44:13 AM
Lead	23	0.25		mg/Kg	1	4/28/2008 10:01:18 AM
Selenium	ND	25		mg/Kg	10	4/23/2008 9:44:13 AM
Silver	ND	0.25		mg/Kg	1	4/28/2008 10:01:18 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	30		mg/Kg	1	4/20/2008
Acenaphthylene	ND	30		mg/Kg	1	4/20/2008
Aniline	ND	30		mg/Kg	1	4/20/2008
Anthracene	ND	30		mg/Kg	1	4/20/2008
Azobenzene	ND	30		mg/Kg	1	4/20/2008
Benz(a)anthracene	ND	30		mg/Kg	1	4/20/2008
Benzo(a)pyrene	ND	30		mg/Kg	1	4/20/2008
Benzo(b)fluoranthene	ND	30		mg/Kg	1	4/20/2008
Benzo(g,h,i)perylene	ND	75		mg/Kg	1	4/20/2008
Benzo(k)fluoranthene	ND	30		mg/Kg	1	4/20/2008
Benzoic acid	ND	50		mg/Kg	1	4/20/2008
Benzyl alcohol	ND	30		mg/Kg	1	4/20/2008
Bis(2-chloroethoxy)methane	ND	30		mg/Kg	1	4/20/2008
Bis(2-chloroethyl)ether	ND	30		mg/Kg	1	4/20/2008
Bis(2-chloroisopropyl)ether	ND	30		mg/Kg	1	4/20/2008
Bis(2-ethylhexyl)phthalate	ND	75		mg/Kg	1	4/20/2008
4-Bromophenyl phenyl ether	ND	30		mg/Kg	1	4/20/2008
Butyl benzyl phthalate	ND	30		mg/Kg	1	4/20/2008
Carbazole	ND	30		mg/Kg	1	4/20/2008
4-Chloro-3-methylphenol	ND	75		mg/Kg	1	4/20/2008
4-Chloroaniline	ND	75		mg/Kg	1	4/20/2008

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- 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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-29

Client Sample ID: AL2-5-HP
Collection Date: 4/9/2008 8:20:00 AM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Chloronaphthalene	ND	38		mg/Kg	1	4/20/2008
2-Chlorophenol	ND	30		mg/Kg	1	4/20/2008
4-Chlorophenyl phenyl ether	ND	30		mg/Kg	1	4/20/2008
Chrysene	ND	30		mg/Kg	1	4/20/2008
Di-n-butyl phthalate	ND	75		mg/Kg	1	4/20/2008
Di-n-octyl phthalate	ND	30		mg/Kg	1	4/20/2008
Dibenz(a,h)anthracene	ND	30		mg/Kg	1	4/20/2008
Dibenzofuran	ND	30		mg/Kg	1	4/20/2008
1,2-Dichlorobenzene	ND	30		mg/Kg	1	4/20/2008
1,3-Dichlorobenzene	ND	30		mg/Kg	1	4/20/2008
1,4-Dichlorobenzene	ND	30		mg/Kg	1	4/20/2008
3,3'-Dichlorobenzidine	ND	38		mg/Kg	1	4/20/2008
Diethyl phthalate	ND	30		mg/Kg	1	4/20/2008
Dimethyl phthalate	ND	30		mg/Kg	1	4/20/2008
2,4-Dichlorophenol	ND	30		mg/Kg	1	4/20/2008
2,4-Dimethylphenol	ND	45		mg/Kg	1	4/20/2008
4,6-Dinitro-2-methylphenol	ND	75		mg/Kg	1	4/20/2008
2,4-Dinitrophenol	ND	75		mg/Kg	1	4/20/2008
2,4-Dinitrotoluene	ND	75		mg/Kg	1	4/20/2008
2,6-Dinitrotoluene	ND	75		mg/Kg	1	4/20/2008
Fluoranthene	ND	38		mg/Kg	1	4/20/2008
Fluorene	ND	30		mg/Kg	1	4/20/2008
Hexachlorobenzene	ND	30		mg/Kg	1	4/20/2008
Hexachlorobutadiene	ND	30		mg/Kg	1	4/20/2008
Hexachlorocyclopentadiene	ND	30		mg/Kg	1	4/20/2008
Hexachloroethane	ND	30		mg/Kg	1	4/20/2008
Indeno(1,2,3-cd)pyrene	ND	38		mg/Kg	1	4/20/2008
Isophorone	ND	75		mg/Kg	1	4/20/2008
2-Methylnaphthalene	ND	38		mg/Kg	1	4/20/2008
2-Methylphenol	ND	75		mg/Kg	1	4/20/2008
3+4-Methylphenol	ND	30		mg/Kg	1	4/20/2008
N-Nitrosodi-n-propylamine	ND	30		mg/Kg	1	4/20/2008
N-Nitrosodiphenylamine	ND	30		mg/Kg	1	4/20/2008
Naphthalene	ND	30		mg/Kg	1	4/20/2008
2-Nitroaniline	ND	30		mg/Kg	1	4/20/2008
3-Nitroaniline	ND	30		mg/Kg	1	4/20/2008
4-Nitroaniline	ND	38		mg/Kg	1	4/20/2008
Nitrobenzene	ND	75		mg/Kg	1	4/20/2008
2-Nitrophenol	ND	30		mg/Kg	1	4/20/2008
4-Nitrophenol	ND	30		mg/Kg	1	4/20/2008
Pentachlorophenol	ND	50		mg/Kg	1	4/20/2008
Phenanthrene	ND	30		mg/Kg	1	4/20/2008

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- 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
- II Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-29

Client Sample ID: AL2-5-HP
Collection Date: 4/9/2008 8:20:00 AM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Phenol	ND	30		mg/Kg	1	4/20/2008
Pyrene	ND	30		mg/Kg	1	4/20/2008
Pyridine	ND	75		mg/Kg	1	4/20/2008
1,2,4-Trichlorobenzene	ND	30		mg/Kg	1	4/20/2008
2,4,5-Trichlorophenol	ND	30		mg/Kg	1	4/20/2008
2,4,6-Trichlorophenol	ND	30		mg/Kg	1	4/20/2008
Surr: 2,4,6-Tribromophenol	73.4	35.5-141		%REC	1	4/20/2008
Surr: 2-Fluorobiphenyl	91.8	30.4-128		%REC	1	4/20/2008
Surr: 2-Fluorophenol	82.7	28.1-129		%REC	1	4/20/2008
Surr: 4-Terphenyl-d14	63.7	34.6-151		%REC	1	4/20/2008
Surr: Nitrobenzene-d5	70.9	26.5-122		%REC	1	4/20/2008
Surr: Phenol-d5	73.1	37.6-118		%REC	1	4/20/2008
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Benzene	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
Toluene	1.1	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
Ethylbenzene	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
Methyl tert-butyl ether (MTBE)	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
1,2,4-Trimethylbenzene	1.1	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
1,3,5-Trimethylbenzene	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
1,2-Dichloroethane (EDC)	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
1,2-Dibromoethane (EDB)	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
Naphthalene	1.2	1.0		mg/Kg	10	4/20/2008 6:23:38 AM
1-Methylnaphthalene	5.4	2.0		mg/Kg	10	4/20/2008 6:23:38 AM
2-Methylnaphthalene	6.6	2.0		mg/Kg	10	4/20/2008 6:23:38 AM
Acetone	ND	7.5		mg/Kg	10	4/20/2008 6:23:38 AM
Bromobenzene	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
Bromodichloromethane	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
Bromoform	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
Bromomethane	ND	1.0		mg/Kg	10	4/20/2008 6:23:38 AM
2-Butanone	ND	5.0		mg/Kg	10	4/20/2008 6:23:38 AM
Carbon disulfide	5.8	5.0		mg/Kg	10	4/20/2008 6:23:38 AM
Carbon tetrachloride	ND	1.0		mg/Kg	10	4/20/2008 6:23:38 AM
Chlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
Chloroethane	ND	1.0		mg/Kg	10	4/20/2008 6:23:38 AM
Chloroform	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
Chloromethane	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
2-Chlorotoluene	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
4-Chlorotoluene	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
cis-1,2-DCE	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
cis-1,3-Dichloropropene	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
1,2-Dibromo-3-chloropropane	ND	1.0		mg/Kg	10	4/20/2008 6:23:38 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- 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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-29

Client Sample ID: AL2-5-HP
Collection Date: 4/9/2008 8:20:00 AM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Dibromochloromethane	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
Dibromomethane	ND	1.0		mg/Kg	10	4/20/2008 6:23:38 AM
1,2-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
1,3-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
1,4-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
Dichlorodifluoromethane	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
1,1-Dichloroethane	ND	1.0		mg/Kg	10	4/20/2008 6:23:38 AM
1,1-Dichloroethene	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
1,2-Dichloropropane	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
1,3-Dichloropropane	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
2,2-Dichloropropane	ND	1.0		mg/Kg	10	4/20/2008 6:23:38 AM
1,1-Dichloropropene	ND	1.0		mg/Kg	10	4/20/2008 6:23:38 AM
Hexachlorobutadiene	ND	1.0		mg/Kg	10	4/20/2008 6:23:38 AM
2-Hexanone	ND	5.0		mg/Kg	10	4/20/2008 6:23:38 AM
Isopropylbenzene	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
4-Isopropyltoluene	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
4-Methyl-2-pentanone	ND	5.0		mg/Kg	10	4/20/2008 6:23:38 AM
Methylene chloride	ND	1.5		mg/Kg	10	4/20/2008 6:23:38 AM
n-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
n-Propylbenzene	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
sec-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
Styrene	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
tert-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
1,1,1,2-Tetrachloroethane	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
1,1,2,2-Tetrachloroethane	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
Tetrachloroethene (PCE)	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
trans-1,2-DCE	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
trans-1,3-Dichloropropene	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
1,2,3-Trichlorobenzene	ND	1.0		mg/Kg	10	4/20/2008 6:23:38 AM
1,2,4-Trichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
1,1,1-Trichloroethane	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
1,1,2-Trichloroethane	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
Trichloroethene (TCE)	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
Trichlorofluoromethane	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
1,2,3-Trichloropropane	ND	1.0		mg/Kg	10	4/20/2008 6:23:38 AM
Vinyl chloride	ND	0.50		mg/Kg	10	4/20/2008 6:23:38 AM
Xylenes, Total	1.8	1.0		mg/Kg	10	4/20/2008 6:23:38 AM
Surr: 1,2-Dichloroethane-d4	95.2	68.7-122		%REC	10	4/20/2008 6:23:38 AM
Surr: 4-Bromofluorobenzene	97.7	79.3-126		%REC	10	4/20/2008 6:23:38 AM
Surr: Dibromofluoromethane	102	64.4-119		%REC	10	4/20/2008 6:23:38 AM
Surr: Toluene-d8	98.9	86.5-121		%REC	10	4/20/2008 6:23:38 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- 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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-30

Client Sample ID: AL2-1-SS
Collection Date: 4/9/2008 10:40:00 AM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	50000	5000		mg/Kg	50	4/18/2008 6:04:38 PM
Motor Oil Range Organics (MRO)	ND	25000		mg/Kg	50	4/18/2008 6:04:38 PM
Surr: DNOP	0	61.7-135	S	%REC	50	4/18/2008 6:04:38 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	100		mg/Kg	20	4/19/2008 5:23:48 AM
Surr: BFB	103	84-138		%REC	20	4/19/2008 5:23:48 AM
EPA METHOD 7471: MERCURY						Analyst: SNV
Mercury	8.4	1.6		mg/Kg	50	4/28/2008 3:17:26 PM
EPA METHOD 6010B: SOIL METALS						Analyst: NMO
Arsenic	20	2.5		mg/Kg	1	4/23/2008 8:31:41 AM
Barium	260	1.0		mg/Kg	10	4/23/2008 9:46:52 AM
Cadmium	6.6	0.10		mg/Kg	1	4/23/2008 8:31:41 AM
Chromium	30	0.30		mg/Kg	1	4/23/2008 8:31:41 AM
Lead	48	2.5		mg/Kg	10	4/28/2008 11:29:02 AM
Selenium	ND	25		mg/Kg	10	4/23/2008 9:46:52 AM
Silver	ND	0.25		mg/Kg	1	4/28/2008 10:03:47 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	30		mg/Kg	1	4/20/2008
Acenaphthylene	ND	30		mg/Kg	1	4/20/2008
Aniline	ND	30		mg/Kg	1	4/20/2008
Anthracene	ND	30		mg/Kg	1	4/20/2008
Azobenzene	ND	30		mg/Kg	1	4/20/2008
Benz(a)anthracene	ND	30		mg/Kg	1	4/20/2008
Benzo(a)pyrene	ND	30		mg/Kg	1	4/20/2008
Benzo(b)fluoranthene	ND	30		mg/Kg	1	4/20/2008
Benzo(g,h,i)perylene	ND	75		mg/Kg	1	4/20/2008
Benzo(k)fluoranthene	ND	30		mg/Kg	1	4/20/2008
Benzoic acid	ND	50		mg/Kg	1	4/20/2008
Benzyl alcohol	ND	30		mg/Kg	1	4/20/2008
Bis(2-chloroethoxy)methane	ND	30		mg/Kg	1	4/20/2008
Bis(2-chloroethyl)ether	ND	30		mg/Kg	1	4/20/2008
Bis(2-chloroisopropyl)ether	ND	30		mg/Kg	1	4/20/2008
Bis(2-ethylhexyl)phthalate	ND	75		mg/Kg	1	4/20/2008
4-Bromophenyl phenyl ether	ND	30		mg/Kg	1	4/20/2008
Butyl benzyl phthalate	ND	30		mg/Kg	1	4/20/2008
Carbazole	ND	30		mg/Kg	1	4/20/2008
4-Chloro-3-methylphenol	ND	75		mg/Kg	1	4/20/2008
4-Chloroaniline	ND	75		mg/Kg	1	4/20/2008

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-30

Client Sample ID: AL2-1-SS
Collection Date: 4/9/2008 10:40:00 AM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Chloronaphthalene	ND	38		mg/Kg	1	4/20/2008
2-Chlorophenol	ND	30		mg/Kg	1	4/20/2008
4-Chlorophenyl phenyl ether	ND	30		mg/Kg	1	4/20/2008
Chrysene	ND	30		mg/Kg	1	4/20/2008
Di-n-butyl phthalate	ND	75		mg/Kg	1	4/20/2008
Di-n-octyl phthalate	ND	30		mg/Kg	1	4/20/2008
Dibenz(a,h)anthracene	ND	30		mg/Kg	1	4/20/2008
Dibenzofuran	ND	30		mg/Kg	1	4/20/2008
1,2-Dichlorobenzene	ND	30		mg/Kg	1	4/20/2008
1,3-Dichlorobenzene	ND	30		mg/Kg	1	4/20/2008
1,4-Dichlorobenzene	ND	30		mg/Kg	1	4/20/2008
3,3'-Dichlorobenzidine	ND	38		mg/Kg	1	4/20/2008
Diethyl phthalate	ND	30		mg/Kg	1	4/20/2008
Dimethyl phthalate	ND	30		mg/Kg	1	4/20/2008
2,4-Dichlorophenol	ND	30		mg/Kg	1	4/20/2008
2,4-Dimethylphenol	ND	45		mg/Kg	1	4/20/2008
4,6-Dinitro-2-methylphenol	ND	75		mg/Kg	1	4/20/2008
2,4-Dinitrophenol	ND	75		mg/Kg	1	4/20/2008
2,4-Dinitrotoluene	ND	75		mg/Kg	1	4/20/2008
2,6-Dinitrotoluene	ND	75		mg/Kg	1	4/20/2008
Fluoranthene	ND	38		mg/Kg	1	4/20/2008
Fluorene	ND	30		mg/Kg	1	4/20/2008
Hexachlorobenzene	ND	30		mg/Kg	1	4/20/2008
Hexachlorobutadiene	ND	30		mg/Kg	1	4/20/2008
Hexachlorocyclopentadiene	ND	30		mg/Kg	1	4/20/2008
Hexachloroethane	ND	30		mg/Kg	1	4/20/2008
Indeno(1,2,3-cd)pyrene	ND	38		mg/Kg	1	4/20/2008
Isophorone	ND	75		mg/Kg	1	4/20/2008
2-Methylnaphthalene	ND	38		mg/Kg	1	4/20/2008
2-Methylphenol	ND	75		mg/Kg	1	4/20/2008
3+4-Methylphenol	150	30		mg/Kg	1	4/20/2008
N-Nitrosodi-n-propylamine	ND	30		mg/Kg	1	4/20/2008
N-Nitrosodiphenylamine	ND	30		mg/Kg	1	4/20/2008
Naphthalene	ND	30		mg/Kg	1	4/20/2008
2-Nitroaniline	ND	30		mg/Kg	1	4/20/2008
3-Nitroaniline	ND	30		mg/Kg	1	4/20/2008
4-Nitroaniline	ND	38		mg/Kg	1	4/20/2008
Nitrobenzene	ND	75		mg/Kg	1	4/20/2008
2-Nitrophenol	ND	30		mg/Kg	1	4/20/2008
4-Nitrophenol	ND	30		mg/Kg	1	4/20/2008
Pentachlorophenol	ND	50		mg/Kg	1	4/20/2008
Phenanthrene	ND	30		mg/Kg	1	4/20/2008

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
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: 29-Apr-08

CLIENT:	Western Refining Southwest, Gallup	Client Sample ID:	AL2-1-SS
Lab Order:	0804138	Collection Date:	4/9/2008 10:40:00 AM
Project:	Evaporation Pond/Aeration Lagoon	Date Received:	4/11/2008
Lab ID:	0804138-30	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Phenol	ND	30		mg/Kg	1	4/20/2008
Pyrene	ND	30		mg/Kg	1	4/20/2008
Pyridine	ND	75		mg/Kg	1	4/20/2008
1,2,4-Trichlorobenzene	ND	30		mg/Kg	1	4/20/2008
2,4,5-Trichlorophenol	ND	30		mg/Kg	1	4/20/2008
2,4,6-Trichlorophenol	ND	30		mg/Kg	1	4/20/2008
Surr: 2,4,6-Tribromophenol	58.9	35.5-141		%REC	1	4/20/2008
Surr: 2-Fluorobiphenyl	62.1	30.4-128		%REC	1	4/20/2008
Surr: 2-Fluorophenol	87.4	28.1-129		%REC	1	4/20/2008
Surr: 4-Terphenyl-d14	43.7	34.6-151		%REC	1	4/20/2008
Surr: Nitrobenzene-d5	78.8	26.5-122		%REC	1	4/20/2008
Surr: Phenol-d5	75.3	37.6-118		%REC	1	4/20/2008

EPA METHOD 8260B: VOLATILES						Analyst: BDH
Benzene	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
Toluene	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
Ethylbenzene	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
Methyl tert-butyl ether (MTBE)	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
1,2,4-Trimethylbenzene	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
1,3,5-Trimethylbenzene	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
1,2-Dichloroethane (EDC)	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
1,2-Dibromoethane (EDB)	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
Naphthalene	ND	1.0		mg/Kg	10	4/20/2008 6:59:11 AM
1-Methylnaphthalene	ND	2.0		mg/Kg	10	4/20/2008 6:59:11 AM
2-Methylnaphthalene	ND	2.0		mg/Kg	10	4/20/2008 6:59:11 AM
Acetone	ND	7.5		mg/Kg	10	4/20/2008 6:59:11 AM
Bromobenzene	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
Bromodichloromethane	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
Bromoform	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
Bromomethane	ND	1.0		mg/Kg	10	4/20/2008 6:59:11 AM
2-Butanone	ND	5.0		mg/Kg	10	4/20/2008 6:59:11 AM
Carbon disulfide	ND	5.0		mg/Kg	10	4/20/2008 6:59:11 AM
Carbon tetrachloride	ND	1.0		mg/Kg	10	4/20/2008 6:59:11 AM
Chlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
Chloroethane	ND	1.0		mg/Kg	10	4/20/2008 6:59:11 AM
Chloroform	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
Chloromethane	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
2-Chlorotoluene	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
4-Chlorotoluene	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
cis-1,2-DCE	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
cis-1,3-Dichloropropene	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
1,2-Dibromo-3-chloropropane	ND	1.0		mg/Kg	10	4/20/2008 6:59:11 AM

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value above quantitation range	II Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	MCL Maximum Contaminant Level
	ND Not Detected at the Reporting Limit	RL Reporting Limit
	S Spike recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-30

Client Sample ID: AL2-1-SS
Collection Date: 4/9/2008 10:40:00 AM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Dibromochloromethane	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
Dibromomethane	ND	1.0		mg/Kg	10	4/20/2008 6:59:11 AM
1,2-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
1,3-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
1,4-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
Dichlorodifluoromethane	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
1,1-Dichloroethane	ND	1.0		mg/Kg	10	4/20/2008 6:59:11 AM
1,1-Dichloroethene	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
1,2-Dichloropropane	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
1,3-Dichloropropane	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
2,2-Dichloropropane	ND	1.0		mg/Kg	10	4/20/2008 6:59:11 AM
1,1-Dichloropropene	ND	1.0		mg/Kg	10	4/20/2008 6:59:11 AM
Hexachlorobutadiene	ND	1.0		mg/Kg	10	4/20/2008 6:59:11 AM
2-Hexanone	ND	5.0		mg/Kg	10	4/20/2008 6:59:11 AM
Isopropylbenzene	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
4-Isopropyltoluene	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
4-Methyl-2-pentanone	ND	5.0		mg/Kg	10	4/20/2008 6:59:11 AM
Methylene chloride	ND	1.5		mg/Kg	10	4/20/2008 6:59:11 AM
n-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
n-Propylbenzene	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
sec-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
Styrene	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
tert-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
1,1,1,2-Tetrachloroethane	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
1,1,2,2-Tetrachloroethane	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
Tetrachloroethene (PCE)	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
trans-1,2-DCE	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
trans-1,3-Dichloropropene	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
1,2,3-Trichlorobenzene	ND	1.0		mg/Kg	10	4/20/2008 6:59:11 AM
1,2,4-Trichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
1,1,1-Trichloroethane	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
1,1,2-Trichloroethane	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
Trichloroethene (TCE)	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
Trichlorofluoromethane	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
1,2,3-Trichloropropane	ND	1.0		mg/Kg	10	4/20/2008 6:59:11 AM
Vinyl chloride	ND	0.50		mg/Kg	10	4/20/2008 6:59:11 AM
Xylenes, Total	ND	1.0		mg/Kg	10	4/20/2008 6:59:11 AM
Surr: 1,2-Dichloroethane-d4	100	68.7-122		%REC	10	4/20/2008 6:59:11 AM
Surr: 4-Bromofluorobenzene	103	79.3-126		%REC	10	4/20/2008 6:59:11 AM
Surr: Dibromofluoromethane	102	64.4-119		%REC	10	4/20/2008 6:59:11 AM
Surr: Toluene-d8	98.6	86.5-121		%REC	10	4/20/2008 6:59:11 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 0804138
 Project: Evaporation Pond/Aeration Lagoon
 Lab ID: 0804138-31

Client Sample ID: AL2-2-SS
 Collection Date: 4/8/2008 3:55:00 PM
 Date Received: 4/11/2008
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	260000	5000		mg/Kg	50	4/17/2008 4:19:11 PM
Motor Oil Range Organics (MRO)	31000	25000		mg/Kg	50	4/17/2008 4:19:11 PM
Surr: DNOP	0	61.7-135	S	%REC	50	4/17/2008 4:19:11 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	100		mg/Kg	20	4/19/2008 5:53:56 AM
Surr: BFB	101	84-138		%REC	20	4/19/2008 5:53:56 AM
EPA METHOD 7471: MERCURY						Analyst: SNV
Mercury	6.8	1.6		mg/Kg	50	4/28/2008 3:20:45 PM
EPA METHOD 6010B: SOIL METALS						Analyst: NMO
Arsenic	13	2.5		mg/Kg	1	4/23/2008 8:34:18 AM
Barium	500	2.0		mg/Kg	20	4/23/2008 9:53:51 AM
Cadmium	0.32	0.10		mg/Kg	1	4/23/2008 8:34:18 AM
Chromium	21	0.30		mg/Kg	1	4/23/2008 8:34:18 AM
Lead	24	0.25		mg/Kg	1	4/28/2008 10:06:19 AM
Selenium	ND	25		mg/Kg	10	4/23/2008 9:49:31 AM
Silver	ND	0.25		mg/Kg	1	4/28/2008 10:06:19 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	30		mg/Kg	1	4/20/2008
Acenaphthylene	ND	30		mg/Kg	1	4/20/2008
Aniline	ND	30		mg/Kg	1	4/20/2008
Anthracene	ND	30		mg/Kg	1	4/20/2008
Azobenzene	ND	30		mg/Kg	1	4/20/2008
Benz(a)anthracene	ND	30		mg/Kg	1	4/20/2008
Benzo(a)pyrene	ND	30		mg/Kg	1	4/20/2008
Benzo(b)fluoranthene	ND	30		mg/Kg	1	4/20/2008
Benzo(g,h,i)perylene	ND	75		mg/Kg	1	4/20/2008
Benzo(k)fluoranthene	ND	30		mg/Kg	1	4/20/2008
Benzoic acid	ND	50		mg/Kg	1	4/20/2008
Benzyl alcohol	ND	30		mg/Kg	1	4/20/2008
Bis(2-chloroethoxy)methane	ND	30		mg/Kg	1	4/20/2008
Bis(2-chloroethyl)ether	ND	30		mg/Kg	1	4/20/2008
Bis(2-chloroisopropyl)ether	ND	30		mg/Kg	1	4/20/2008
Bis(2-ethylhexyl)phthalate	ND	75		mg/Kg	1	4/20/2008
4-Bromophenyl phenyl ether	ND	30		mg/Kg	1	4/20/2008
Butyl benzyl phthalate	ND	30		mg/Kg	1	4/20/2008
Carbazole	ND	30		mg/Kg	1	4/20/2008
4-Chloro-3-methylphenol	ND	75		mg/Kg	1	4/20/2008
4-Chloroaniline	ND	75		mg/Kg	1	4/20/2008

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-31

Client Sample ID: AL2-2-SS
Collection Date: 4/8/2008 3:55:00 PM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Chloronaphthalene	ND	38		mg/Kg	1	4/20/2008
2-Chlorophenol	ND	30		mg/Kg	1	4/20/2008
4-Chlorophenyl phenyl ether	ND	30		mg/Kg	1	4/20/2008
Chrysene	ND	30		mg/Kg	1	4/20/2008
Di-n-butyl phthalate	ND	75		mg/Kg	1	4/20/2008
Di-n-octyl phthalate	ND	30		mg/Kg	1	4/20/2008
Dibenz(a,h)anthracene	ND	30		mg/Kg	1	4/20/2008
Dibenzofuran	ND	30		mg/Kg	1	4/20/2008
1,2-Dichlorobenzene	ND	30		mg/Kg	1	4/20/2008
1,3-Dichlorobenzene	ND	30		mg/Kg	1	4/20/2008
1,4-Dichlorobenzene	ND	30		mg/Kg	1	4/20/2008
3,3'-Dichlorobenzidine	ND	38		mg/Kg	1	4/20/2008
Diethyl phthalate	ND	30		mg/Kg	1	4/20/2008
Dimethyl phthalate	ND	30		mg/Kg	1	4/20/2008
2,4-Dichlorophenol	ND	30		mg/Kg	1	4/20/2008
2,4-Dimethylphenol	ND	45		mg/Kg	1	4/20/2008
4,6-Dinitro-2-methylphenol	ND	75		mg/Kg	1	4/20/2008
2,4-Dinitrophenol	ND	75		mg/Kg	1	4/20/2008
2,4-Dinitrotoluene	ND	75		mg/Kg	1	4/20/2008
2,6-Dinitrotoluene	ND	75		mg/Kg	1	4/20/2008
Fluoranthene	ND	38		mg/Kg	1	4/20/2008
Fluorene	98	30		mg/Kg	1	4/20/2008
Hexachlorobenzene	ND	30		mg/Kg	1	4/20/2008
Hexachlorobutadiene	ND	30		mg/Kg	1	4/20/2008
Hexachlorocyclopentadiene	ND	30		mg/Kg	1	4/20/2008
Hexachloroethane	ND	30		mg/Kg	1	4/20/2008
Indeno(1,2,3-cd)pyrene	ND	38		mg/Kg	1	4/20/2008
Isophorone	ND	75		mg/Kg	1	4/20/2008
2-Methylnaphthalene	450	38		mg/Kg	1	4/20/2008
2-Methylphenol	ND	75		mg/Kg	1	4/20/2008
3+4-Methylphenol	ND	30		mg/Kg	1	4/20/2008
N-Nitrosodi-n-propylamine	ND	30		mg/Kg	1	4/20/2008
N-Nitrosodiphenylamine	ND	30		mg/Kg	1	4/20/2008
Naphthalene	38	30		mg/Kg	1	4/20/2008
2-Nitroaniline	ND	30		mg/Kg	1	4/20/2008
3-Nitroaniline	ND	30		mg/Kg	1	4/20/2008
4-Nitroaniline	ND	38		mg/Kg	1	4/20/2008
Nitrobenzene	ND	75		mg/Kg	1	4/20/2008
2-Nitrophenol	ND	30		mg/Kg	1	4/20/2008
4-Nitrophenol	ND	30		mg/Kg	1	4/20/2008
Pentachlorophenol	ND	50		mg/Kg	1	4/20/2008
Phenanthrene	230	30		mg/Kg	1	4/20/2008

Qualifiers:
 * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-31

Client Sample ID: AL2-2-SS
Collection Date: 4/8/2008 3:55:00 PM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Phenol	ND	30		mg/Kg	1	4/20/2008
Pyrene	ND	30		mg/Kg	1	4/20/2008
Pyridine	ND	75		mg/Kg	1	4/20/2008
1,2,4-Trichlorobenzene	ND	30		mg/Kg	1	4/20/2008
2,4,5-Trichlorophenol	ND	30		mg/Kg	1	4/20/2008
2,4,6-Trichlorophenol	ND	30		mg/Kg	1	4/20/2008
Surr: 2,4,6-Tribromophenol	35.5	35.5-141		%REC	1	4/20/2008
Surr: 2-Fluorobiphenyl	38.5	30.4-128		%REC	1	4/20/2008
Surr: 2-Fluorophenol	86.8	28.1-129		%REC	1	4/20/2008
Surr: 4-Terphenyl-d14	53.9	34.6-151		%REC	1	4/20/2008
Surr: Nitrobenzene-d5	82.6	26.5-122		%REC	1	4/20/2008
Surr: Phenol-d5	69.3	37.6-118		%REC	1	4/20/2008
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Benzene	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
Toluene	2.1	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
Ethylbenzene	0.72	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
Methyl tert-butyl ether (MTBE)	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
1,2,4-Trimethylbenzene	4.5	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
1,3,5-Trimethylbenzene	1.1	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
1,2-Dichloroethane (EDC)	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
1,2-Dibromoethane (EDB)	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
Naphthalene	5.8	1.0		mg/Kg	10	4/20/2008 9:20:52 AM
1-Methylnaphthalene	26	2.0		mg/Kg	10	4/20/2008 9:20:52 AM
2-Methylnaphthalene	37	2.0		mg/Kg	10	4/20/2008 9:20:52 AM
Acetone	ND	7.5		mg/Kg	10	4/20/2008 9:20:52 AM
Bromobenzene	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
Bromodichloromethane	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
Bromoform	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
Bromomethane	ND	1.0		mg/Kg	10	4/20/2008 9:20:52 AM
2-Butanone	ND	5.0		mg/Kg	10	4/20/2008 9:20:52 AM
Carbon disulfide	ND	5.0		mg/Kg	10	4/20/2008 9:20:52 AM
Carbon tetrachloride	ND	1.0		mg/Kg	10	4/20/2008 9:20:52 AM
Chlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
Chloroethane	ND	1.0		mg/Kg	10	4/20/2008 9:20:52 AM
Chloroform	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
Chloromethane	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
2-Chlorotoluene	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
4-Chlorotoluene	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
cis-1,2-DCE	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
cis-1,3-Dichloropropene	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
1,2-Dibromo-3-chloropropane	ND	1.0		mg/Kg	10	4/20/2008 9:20:52 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-31

Client Sample ID: AL2-2-SS
Collection Date: 4/8/2008 3:55:00 PM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Dibromochloromethane	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
Dibromomethane	ND	1.0		mg/Kg	10	4/20/2008 9:20:52 AM
1,2-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
1,3-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
1,4-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
Dichlorodifluoromethane	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
1,1-Dichloroethane	ND	1.0		mg/Kg	10	4/20/2008 9:20:52 AM
1,1-Dichloroethene	ND	0.60		mg/Kg	10	4/20/2008 9:20:52 AM
1,2-Dichloropropane	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
1,3-Dichloropropane	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
2,2-Dichloropropane	ND	1.0		mg/Kg	10	4/20/2008 9:20:52 AM
1,1-Dichloropropene	ND	1.0		mg/Kg	10	4/20/2008 9:20:52 AM
Hexachlorobutadiene	ND	1.0		mg/Kg	10	4/20/2008 9:20:52 AM
2-Hexanone	ND	5.0		mg/Kg	10	4/20/2008 9:20:52 AM
Isopropylbenzene	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
4-Isopropyltoluene	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
4-Methyl-2-pentanone	ND	5.0		mg/Kg	10	4/20/2008 9:20:52 AM
Methylene chloride	ND	1.5		mg/Kg	10	4/20/2008 9:20:52 AM
n-Butylbenzene	1.0	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
n-Propylbenzene	ND	0.60		mg/Kg	10	4/20/2008 9:20:52 AM
sec-Butylbenzene	ND	0.60		mg/Kg	10	4/20/2008 9:20:52 AM
Styrene	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
tert-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
1,1,1,2-Tetrachloroethane	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
1,1,2,2-Tetrachloroethane	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
Tetrachloroethene (PCE)	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
trans-1,2-DCE	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
trans-1,3-Dichloropropene	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
1,2,3-Trichlorobenzene	ND	1.0		mg/Kg	10	4/20/2008 9:20:52 AM
1,2,4-Trichlorobenzene	ND	0.60		mg/Kg	10	4/20/2008 9:20:52 AM
1,1,1-Trichloroethane	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
1,1,2-Trichloroethane	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
Trichloroethene (TCE)	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
Trichlorofluoromethane	ND	0.60		mg/Kg	10	4/20/2008 9:20:52 AM
1,2,3-Trichloropropane	ND	1.0		mg/Kg	10	4/20/2008 9:20:52 AM
Vinyl chloride	ND	0.50		mg/Kg	10	4/20/2008 9:20:52 AM
Xylenes, Total	4.9	1.0		mg/Kg	10	4/20/2008 9:20:52 AM
Surr: 1,2-Dichloroethane-d4	98.2	68.7-122		%REC	10	4/20/2008 9:20:52 AM
Surr: 4-Bromofluorobenzene	79.2	79.3-126	S	%REC	10	4/20/2008 9:20:52 AM
Surr: Dibromofluoromethane	98.1	64.4-119		%REC	10	4/20/2008 9:20:52 AM
Surr: Toluene-d8	97.5	86.6-121		%REC	10	4/20/2008 9:20:52 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-32

Client Sample ID: AL2-3-SS
Collection Date: 4/9/2008 10:00:00 AM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	300000	5000		mg/Kg	50	4/17/2008 4:53:20 PM
Motor Oil Range Organics (MRO)	29000	25000		mg/Kg	50	4/17/2008 4:53:20 PM
Surr: DNOP	0	81.7-135	S	%REC	50	4/17/2008 4:53:20 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	100		mg/Kg	20	4/19/2008 6:24:07 AM
Surr: BFB	103	84-135		%REC	20	4/19/2008 6:24:07 AM
EPA METHOD 7471: MERCURY						Analyst: SNV
Mercury	8.9	1.6		mg/Kg	50	4/28/2008 3:41:55 PM
EPA METHOD 6010B: SOIL METALS						Analyst: NMO
Arsenic	8.4	2.5		mg/Kg	1	4/23/2008 8:36:55 AM
Barium	350	1.0		mg/Kg	10	4/23/2008 9:56:28 AM
Cadmium	0.42	0.10		mg/Kg	1	4/23/2008 8:36:55 AM
Chromium	14	0.30		mg/Kg	1	4/23/2008 8:36:55 AM
Lead	24	1.2		mg/Kg	5	4/28/2008 11:33:35 AM
Selenium	ND	25		mg/Kg	10	4/23/2008 9:56:28 AM
Silver	ND	0.25		mg/Kg	1	4/28/2008 10:08:51 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	30		mg/Kg	1	4/20/2008
Acenaphthylene	ND	30		mg/Kg	1	4/20/2008
Aniline	ND	30		mg/Kg	1	4/20/2008
Anthracene	ND	30		mg/Kg	1	4/20/2008
Azobenzene	ND	30		mg/Kg	1	4/20/2008
Benz(a)anthracene	ND	30		mg/Kg	1	4/20/2008
Benzo(a)pyrene	ND	30		mg/Kg	1	4/20/2008
Benzo(b)fluoranthene	ND	30		mg/Kg	1	4/20/2008
Benzo(g,h,i)perylene	ND	75		mg/Kg	1	4/20/2008
Benzo(k)fluoranthene	ND	30		mg/Kg	1	4/20/2008
Benzic acid	ND	50		mg/Kg	1	4/20/2008
Benzyl alcohol	ND	30		mg/Kg	1	4/20/2008
Bis(2-chloroethoxy)methane	ND	30		mg/Kg	1	4/20/2008
Bis(2-chloroethyl)ether	ND	30		mg/Kg	1	4/20/2008
Bis(2-chloroisopropyl)ether	ND	30		mg/Kg	1	4/20/2008
Bis(2-ethylhexyl)phthalate	ND	75		mg/Kg	1	4/20/2008
4-Bromophenyl phenyl ether	ND	30		mg/Kg	1	4/20/2008
Butyl benzyl phthalate	ND	30		mg/Kg	1	4/20/2008
Carbazole	ND	30		mg/Kg	1	4/20/2008
4-Chloro-3-methylphenol	ND	75		mg/Kg	1	4/20/2008
4-Chloroaniline	ND	75		mg/Kg	1	4/20/2008

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-32

Client Sample ID: AL2-3-SS
Collection Date: 4/9/2008 10:00:00 AM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Chloronaphthalene	ND	38		mg/Kg	1	4/20/2008
2-Chlorophenol	ND	30		mg/Kg	1	4/20/2008
4-Chlorophenyl phenyl ether	ND	30		mg/Kg	1	4/20/2008
Chrysene	32	30		mg/Kg	1	4/20/2008
Di-n-butyl phthalate	ND	75		mg/Kg	1	4/20/2008
Di-n-octyl phthalate	ND	30		mg/Kg	1	4/20/2008
Dibenz(a,h)anthracene	ND	30		mg/Kg	1	4/20/2008
Dibenzofuran	ND	30		mg/Kg	1	4/20/2008
1,2-Dichlorobenzene	ND	30		mg/Kg	1	4/20/2008
1,3-Dichlorobenzene	ND	30		mg/Kg	1	4/20/2008
1,4-Dichlorobenzene	ND	30		mg/Kg	1	4/20/2008
3,3'-Dichlorobenzidine	ND	38		mg/Kg	1	4/20/2008
Diethyl phthalate	ND	30		mg/Kg	1	4/20/2008
Dimethyl phthalate	ND	30		mg/Kg	1	4/20/2008
2,4-Dichlorophenol	ND	30		mg/Kg	1	4/20/2008
2,4-Dimethylphenol	ND	45		mg/Kg	1	4/20/2008
4,6-Dinitro-2-methylphenol	ND	75		mg/Kg	1	4/20/2008
2,4-Dinitrophenol	ND	75		mg/Kg	1	4/20/2008
2,4-Dinitrotoluene	ND	75		mg/Kg	1	4/20/2008
2,6-Dinitrotoluene	ND	75		mg/Kg	1	4/20/2008
Fluoranthene	ND	38		mg/Kg	1	4/20/2008
Fluorene	43	30		mg/Kg	1	4/20/2008
Hexachlorobenzene	ND	30		mg/Kg	1	4/20/2008
Hexachlorobutadiene	ND	30		mg/Kg	1	4/20/2008
Hexachlorocyclopentadiene	ND	30		mg/Kg	1	4/20/2008
Hexachloroethane	ND	30		mg/Kg	1	4/20/2008
Indeno(1,2,3-cd)pyrene	ND	38		mg/Kg	1	4/20/2008
Isophorone	ND	75		mg/Kg	1	4/20/2008
2-Methylnaphthalene	300	38		mg/Kg	1	4/20/2008
2-Methylphenol	ND	75		mg/Kg	1	4/20/2008
3+4-Methylphenol	ND	30		mg/Kg	1	4/20/2008
N-Nitrosodi-n-propylamine	ND	30		mg/Kg	1	4/20/2008
N-Nitrosodiphenylamine	ND	30		mg/Kg	1	4/20/2008
Naphthalene	ND	30		mg/Kg	1	4/20/2008
2-Nitroaniline	ND	30		mg/Kg	1	4/20/2008
3-Nitroaniline	ND	30		mg/Kg	1	4/20/2008
4-Nitroaniline	ND	38		mg/Kg	1	4/20/2008
Nitrobenzene	ND	75		mg/Kg	1	4/20/2008
2-Nitrophenol	ND	30		mg/Kg	1	4/20/2008
4-Nitrophenol	ND	30		mg/Kg	1	4/20/2008
Pentachlorophenol	ND	50		mg/Kg	1	4/20/2008
Phenanthrene	250	30		mg/Kg	1	4/20/2008

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup **Client Sample ID:** AL2-3-SS
Lab Order: 0804138 **Collection Date:** 4/9/2008 10:00:00 AM
Project: Evaporation Pond/Aeration Lagoon **Date Received:** 4/11/2008
Lab ID: 0804138-32 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Phenol	ND	30		mg/Kg	1	4/20/2008
Pyrene	47	30		mg/Kg	1	4/20/2008
Pyridine	ND	75		mg/Kg	1	4/20/2008
1,2,4-Trichlorobenzene	ND	30		mg/Kg	1	4/20/2008
2,4,5-Trichlorophenol	ND	30		mg/Kg	1	4/20/2008
2,4,6-Trichlorophenol	ND	30		mg/Kg	1	4/20/2008
Surr: 2,4,6-Tribromophenol	25.9	35.5-141	S	%REC	1	4/20/2008
Surr: 2-Fluorobiphenyl	41.3	30.4-128		%REC	1	4/20/2008
Surr: 2-Fluorophenol	84.8	28.1-129		%REC	1	4/20/2008
Surr: 4-Terphenyl-d14	31.7	34.6-151	S	%REC	1	4/20/2008
Surr: Nitrobenzene-d5	71.7	26.5-122		%REC	1	4/20/2008
Surr: Phenol-d5	66.3	37.6-118		%REC	1	4/20/2008
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Benzene	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
Toluene	1.2	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
Ethylbenzene	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
Methyl tert-butyl ether (MTBE)	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
1,2,4-Trimethylbenzene	2.9	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
1,3,5-Trimethylbenzene	0.54	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
1,2-Dichloroethane (EDC)	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
1,2-Dibromoethane (EDB)	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
Naphthalene	4.6	1.0		mg/Kg	10	4/20/2008 9:56:29 AM
1-Methylnaphthalene	21	2.0		mg/Kg	10	4/20/2008 9:56:29 AM
2-Methylnaphthalene	27	2.0		mg/Kg	10	4/20/2008 9:56:29 AM
Acetone	ND	7.5		mg/Kg	10	4/20/2008 9:56:29 AM
Bromobenzene	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
Bromodichloromethane	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
Bromoform	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
Bromomethane	ND	1.0		mg/Kg	10	4/20/2008 9:56:29 AM
2-Butanone	ND	5.0		mg/Kg	10	4/20/2008 9:56:29 AM
Carbon disulfide	ND	5.0		mg/Kg	10	4/20/2008 9:56:29 AM
Carbon tetrachloride	ND	1.0		mg/Kg	10	4/20/2008 9:56:29 AM
Chlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
Chloroethane	ND	1.0		mg/Kg	10	4/20/2008 9:56:29 AM
Chloroform	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
Chloromethane	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
2-Chlorotoluene	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
4-Chlorotoluene	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
cis-1,2-DCE	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
cis-1,3-Dichloropropene	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
1,2-Dibromo-3-chloropropane	ND	1.0		mg/Kg	10	4/20/2008 9:56:29 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-32

Client Sample ID: AL2-3-SS
Collection Date: 4/9/2008 10:00:00 AM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Dibromochloromethane	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
Dibromomethane	ND	1.0		mg/Kg	10	4/20/2008 9:56:29 AM
1,2-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
1,3-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
1,4-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
Dichlorodifluoromethane	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
1,1-Dichloroethane	ND	1.0		mg/Kg	10	4/20/2008 9:56:29 AM
1,1-Dichloroethene	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
1,2-Dichloropropane	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
1,3-Dichloropropane	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
2,2-Dichloropropane	ND	1.0		mg/Kg	10	4/20/2008 9:56:29 AM
1,1-Dichloropropene	ND	1.0		mg/Kg	10	4/20/2008 9:56:29 AM
Hexachlorobutadiene	ND	1.0		mg/Kg	10	4/20/2008 9:56:29 AM
2-Hexanone	ND	5.0		mg/Kg	10	4/20/2008 9:56:29 AM
Isopropylbenzene	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
4-isopropyltoluene	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
4-Methyl-2-pentanone	ND	5.0		mg/Kg	10	4/20/2008 9:56:29 AM
Methylene chloride	ND	1.5		mg/Kg	10	4/20/2008 9:56:29 AM
n-Butylbenzene	0.66	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
n-Propylbenzene	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
sec-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
Styrene	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
tert-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
1,1,1,2-Tetrachloroethane	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
1,1,2,2-Tetrachloroethane	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
Tetrachloroethene (PCE)	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
trans-1,2-DCE	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
trans-1,3-Dichloropropene	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
1,2,3-Trichlorobenzene	ND	1.0		mg/Kg	10	4/20/2008 9:56:29 AM
1,2,4-Trichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
1,1,1-Trichloroethane	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
1,1,2-Trichloroethane	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
Trichloroethene (TCE)	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
Trichlorofluoromethane	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
1,2,3-Trichloropropane	ND	1.0		mg/Kg	10	4/20/2008 9:56:29 AM
Vinyl chloride	ND	0.50		mg/Kg	10	4/20/2008 9:56:29 AM
Xylenes, Total	2.8	1.0		mg/Kg	10	4/20/2008 9:56:29 AM
Surr: 1,2-Dichloroethane-d4	95.4	68.7-122		%REC	10	4/20/2008 9:56:29 AM
Surr: 4-Bromofluorobenzene	90.3	79.3-126		%REC	10	4/20/2008 9:56:29 AM
Surr: Dibromofluoromethane	95.8	64.4-119		%REC	10	4/20/2008 9:56:29 AM
Surr: Toluene-d8	96.6	86.5-121		%REC	10	4/20/2008 9:56:29 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-33

Client Sample ID: AL2-4-SS
Collection Date: 4/9/2008 10:25:00 AM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	250000	5000		mg/Kg	50	4/18/2008 8:19:52 PM
Motor Oil Range Organics (MRO)	35000	25000		mg/Kg	50	4/18/2008 8:19:52 PM
Surr: DNOP	0	61.7-135	S	%REC	50	4/18/2008 8:19:52 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	100		mg/Kg	20	4/19/2008 6:54:09 AM
Surr: BFB	103	84-138		%REC	20	4/19/2008 6:54:09 AM
EPA METHOD 7471: MERCURY						Analyst: SNV
Mercury	8.1	1.6		mg/Kg	50	4/28/2008 3:25:49 PM
EPA METHOD 6010B: SOIL METALS						Analyst: NMO
Arsenic	14	2.5		mg/Kg	1	4/23/2008 8:39:36 AM
Barium	190	1.0		mg/Kg	10	4/23/2008 9:59:06 AM
Cadmium	0.42	0.10		mg/Kg	1	4/23/2008 8:39:36 AM
Chromium	16	0.30		mg/Kg	1	4/23/2008 8:39:36 AM
Lead	32	0.25		mg/Kg	1	4/28/2008 10:11:24 AM
Selenium	ND	25		mg/Kg	10	4/23/2008 9:59:06 AM
Silver	ND	0.25		mg/Kg	1	4/28/2008 10:11:24 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	30		mg/Kg	1	4/20/2008
Acenaphthylene	ND	30		mg/Kg	1	4/20/2008
Aniline	ND	30		mg/Kg	1	4/20/2008
Anthracene	ND	30		mg/Kg	1	4/20/2008
Azobenzene	ND	30		mg/Kg	1	4/20/2008
Benz(a)anthracene	ND	30		mg/Kg	1	4/20/2008
Benzo(a)pyrene	ND	30		mg/Kg	1	4/20/2008
Benzo(b)fluoranthene	ND	30		mg/Kg	1	4/20/2008
Benzo(g,h,i)perylene	ND	75		mg/Kg	1	4/20/2008
Benzo(k)fluoranthene	ND	30		mg/Kg	1	4/20/2008
Benzoic acid	ND	50		mg/Kg	1	4/20/2008
Benzyl alcohol	ND	30		mg/Kg	1	4/20/2008
Bis(2-chloroethoxy)methane	ND	30		mg/Kg	1	4/20/2008
Bis(2-chloroethyl)ether	ND	30		mg/Kg	1	4/20/2008
Bis(2-chloroisopropyl)ether	ND	30		mg/Kg	1	4/20/2008
Bis(2-ethylhexyl)phthalate	ND	75		mg/Kg	1	4/20/2008
4-Bromophenyl phenyl ether	ND	30		mg/Kg	1	4/20/2008
Butyl benzyl phthalate	ND	30		mg/Kg	1	4/20/2008
Carbazole	ND	30		mg/Kg	1	4/20/2008
4-Chloro-3-methylphenol	ND	75		mg/Kg	1	4/20/2008
4-Chloroaniline	ND	75		mg/Kg	1	4/20/2008

Qualifiers:
 * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 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
 II Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup Client Sample ID: AL2-4-SS
 Lab Order: 0804138 Collection Date: 4/9/2008 10:25:00 AM
 Project: Evaporation Pond/Aeration Lagoon Date Received: 4/11/2008
 Lab ID: 0804138-33 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Chloronaphthalene	ND	38		mg/Kg	1	4/20/2008
2-Chlorophenol	ND	30		mg/Kg	1	4/20/2008
4-Chlorophenyl phenyl ether	ND	30		mg/Kg	1	4/20/2008
Chrysene	ND	30		mg/Kg	1	4/20/2008
Di-n-butyl phthalate	ND	75		mg/Kg	1	4/20/2008
Di-n-octyl phthalate	ND	30		mg/Kg	1	4/20/2008
Dibenz(a,h)anthracene	ND	30		mg/Kg	1	4/20/2008
Dibenzofuran	ND	30		mg/Kg	1	4/20/2008
1,2-Dichlorobenzene	ND	30		mg/Kg	1	4/20/2008
1,3-Dichlorobenzene	ND	30		mg/Kg	1	4/20/2008
1,4-Dichlorobenzene	ND	30		mg/Kg	1	4/20/2008
3,3'-Dichlorobenzidine	ND	38		mg/Kg	1	4/20/2008
Diethyl phthalate	ND	30		mg/Kg	1	4/20/2008
Dimethyl phthalate	ND	30		mg/Kg	1	4/20/2008
2,4-Dichlorophenol	ND	30		mg/Kg	1	4/20/2008
2,4-Dimethylphenol	ND	45		mg/Kg	1	4/20/2008
4,6-Dinitro-2-methylphenol	ND	75		mg/Kg	1	4/20/2008
2,4-Dinitrophenol	ND	75		mg/Kg	1	4/20/2008
2,4-Dinitrotoluene	ND	75		mg/Kg	1	4/20/2008
2,6-Dinitrotoluene	ND	75		mg/Kg	1	4/20/2008
Fluoranthene	ND	38		mg/Kg	1	4/20/2008
Fluorene	44	30		mg/Kg	1	4/20/2008
Hexachlorobenzene	ND	30		mg/Kg	1	4/20/2008
Hexachlorobutadiene	ND	30		mg/Kg	1	4/20/2008
Hexachlorocyclopentadiene	ND	30		mg/Kg	1	4/20/2008
Hexachloroethane	ND	30		mg/Kg	1	4/20/2008
Indeno(1,2,3-cd)pyrene	ND	38		mg/Kg	1	4/20/2008
Isophorone	ND	75		mg/Kg	1	4/20/2008
2-Methylnaphthalene	190	38		mg/Kg	1	4/20/2008
2-Methylphenol	ND	75		mg/Kg	1	4/20/2008
3+4-Methylphenol	ND	30		mg/Kg	1	4/20/2008
N-Nitrosodi-n-propylamine	ND	30		mg/Kg	1	4/20/2008
N-Nitrosodiphenylamine	ND	30		mg/Kg	1	4/20/2008
Naphthalene	44	30		mg/Kg	1	4/20/2008
2-Nitroaniline	ND	30		mg/Kg	1	4/20/2008
3-Nitroaniline	ND	30		mg/Kg	1	4/20/2008
4-Nitroaniline	ND	38		mg/Kg	1	4/20/2008
Nitrobenzene	ND	75		mg/Kg	1	4/20/2008
2-Nitrophenol	ND	30		mg/Kg	1	4/20/2008
4-Nitrophenol	ND	30		mg/Kg	1	4/20/2008
Pentachlorophenol	ND	50		mg/Kg	1	4/20/2008
Phenanthrene	210	30		mg/Kg	1	4/20/2008

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup **Client Sample ID:** AL2-4-SS
Lab Order: 0804138 **Collection Date:** 4/9/2008 10:25:00 AM
Project: Evaporation Pond/Aeration Lagoon **Date Received:** 4/11/2008
Lab ID: 0804138-33 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Phenol	ND	30		mg/Kg	1	4/20/2008
Pyrene	ND	30		mg/Kg	1	4/20/2008
Pyridine	ND	75		mg/Kg	1	4/20/2008
1,2,4-Trichlorobenzene	ND	30		mg/Kg	1	4/20/2008
2,4,5-Trichlorophenol	ND	30		mg/Kg	1	4/20/2008
2,4,6-Trichlorophenol	ND	30		mg/Kg	1	4/20/2008
Surr: 2,4,6-Tribromophenol	35.8	35.5-141		%REC	1	4/20/2008
Surr: 2-Fluorobiphenyl	46.5	30.4-128		%REC	1	4/20/2008
Surr: 2-Fluorophenol	82.3	28.1-129		%REC	1	4/20/2008
Surr: 4-Terphenyl-d14	61.5	34.6-151		%REC	1	4/20/2008
Surr: Nitrobenzene-d5	77.2	26.5-122		%REC	1	4/20/2008
Surr: Phenol-d5	66.5	37.6-118		%REC	1	4/20/2008

EPA METHOD 8260B: VOLATILES						Analyst: BDH
Benzene	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
Toluene	1.6	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
Ethylbenzene	0.56	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
Methyl tert-butyl ether (MTBE)	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
1,2,4-Trimethylbenzene	4.1	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
1,3,5-Trimethylbenzene	0.72	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
1,2-Dichloroethane (EDC)	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
1,2-Dibromoethane (EDB)	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
Naphthalene	5.4	1.0		mg/Kg	10	4/20/2008 10:32:02 AM
1-Methylnaphthalene	24	2.0		mg/Kg	10	4/20/2008 10:32:02 AM
2-Methylnaphthalene	30	2.0		mg/Kg	10	4/20/2008 10:32:02 AM
Acetone	ND	7.5		mg/Kg	10	4/20/2008 10:32:02 AM
Bromobenzene	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
Bromodichloromethane	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
Bromoform	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
Bromomethane	ND	1.0		mg/Kg	10	4/20/2008 10:32:02 AM
2-Butanone	ND	5.0		mg/Kg	10	4/20/2008 10:32:02 AM
Carbon disulfide	ND	5.0		mg/Kg	10	4/20/2008 10:32:02 AM
Carbon tetrachloride	ND	1.0		mg/Kg	10	4/20/2008 10:32:02 AM
Chlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
Chloroethane	ND	1.0		mg/Kg	10	4/20/2008 10:32:02 AM
Chloroform	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
Chloromethane	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
2-Chlorotoluene	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
4-Chlorotoluene	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
cis-1,2-DCE	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
cis-1,3-Dichloropropene	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
1,2-Dibromo-3-chloropropane	ND	1.0		mg/Kg	10	4/20/2008 10:32:02 AM

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
 E Value above quantitation range H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limits MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit RL Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 0804138
 Project: Evaporation Pond/Aeration Lagoon
 Lab ID: 0804138-33

Client Sample ID: AL2-4-SS
 Collection Date: 4/9/2008 10:25:00 AM
 Date Received: 4/11/2008
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Dibromochloromethane	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
Dibromomethane	ND	1.0		mg/Kg	10	4/20/2008 10:32:02 AM
1,2-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
1,3-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
1,4-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
Dichlorodifluoromethane	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
1,1-Dichloroethane	ND	1.0		mg/Kg	10	4/20/2008 10:32:02 AM
1,1-Dichloroethene	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
1,2-Dichloropropane	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
1,3-Dichloropropane	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
2,2-Dichloropropane	ND	1.0		mg/Kg	10	4/20/2008 10:32:02 AM
1,1-Dichloropropene	ND	1.0		mg/Kg	10	4/20/2008 10:32:02 AM
Hexachlorobutadiene	ND	1.0		mg/Kg	10	4/20/2008 10:32:02 AM
2-Hexanone	ND	5.0		mg/Kg	10	4/20/2008 10:32:02 AM
Isopropylbenzene	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
4-Isopropyltoluene	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
4-Methyl-2-pentanone	ND	5.0		mg/Kg	10	4/20/2008 10:32:02 AM
Methylene chloride	ND	1.5		mg/Kg	10	4/20/2008 10:32:02 AM
n-Butylbenzene	1.1	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
n-Propylbenzene	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
sec-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
Styrene	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
tert-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
1,1,1,2-Tetrachloroethane	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
1,1,2,2-Tetrachloroethane	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
Tetrachloroethene (PCE)	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
trans-1,2-DCE	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
trans-1,3-Dichloropropene	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
1,2,3-Trichlorobenzene	ND	1.0		mg/Kg	10	4/20/2008 10:32:02 AM
1,2,4-Trichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
1,1,1-Trichloroethane	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
1,1,2-Trichloroethane	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
Trichloroethene (TCE)	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
Trichlorofluoromethane	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
1,2,3-Trichloropropane	ND	1.0		mg/Kg	10	4/20/2008 10:32:02 AM
Vinyl chloride	ND	0.50		mg/Kg	10	4/20/2008 10:32:02 AM
Xylenes, Total	4.0	1.0		mg/Kg	10	4/20/2008 10:32:02 AM
Surr: 1,2-Dichloroethane-d4	97.1	68.7-122		%REC	10	4/20/2008 10:32:02 AM
Surr: 4-Bromofluorobenzene	81.3	79.3-126		%REC	10	4/20/2008 10:32:02 AM
Surr: Dibromofluoromethane	93.9	64.4-119		%REC	10	4/20/2008 10:32:02 AM
Surr: Toluene-d8	101	86.5-121		%REC	10	4/20/2008 10:32:02 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
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 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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup **Client Sample ID:** AL2-5-SS
Lab Order: 0804138 **Collection Date:** 4/9/2008 9:40:00 AM
Project: Evaporation Pond/Aeration Lagoon **Date Received:** 4/11/2008
Lab ID: 0804138-34 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	370000	5000		mg/Kg	50	4/18/2008 8:53:46 PM
Motor Oil Range Organics (MRO)	ND	25000		mg/Kg	50	4/18/2008 8:53:46 PM
Surr: DNOP	0	61.7-135	S	%REC	50	4/18/2008 8:53:46 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	430	250		mg/Kg	50	4/18/2008 2:38:25 AM
Surr: BFB	118	84-138		%REC	50	4/18/2008 2:38:25 AM
EPA METHOD 7471: MERCURY						Analyst: SNV
Mercury	6.8	1.6		mg/Kg	50	4/28/2008 3:32:20 PM
EPA METHOD 6010B: SOIL METALS						Analyst: NMO
Arsenic	4.6	2.5		mg/Kg	1	4/23/2008 8:42:15 AM
Barium	310	1.0		mg/Kg	10	4/23/2008 10:01:45 AM
Cadmium	0.31	0.10		mg/Kg	1	4/23/2008 8:42:15 AM
Chromium	12	0.30		mg/Kg	1	4/23/2008 8:42:15 AM
Lead	18	0.25		mg/Kg	1	4/28/2008 10:13:57 AM
Selenium	ND	25		mg/Kg	10	4/23/2008 10:01:45 AM
Silver	ND	0.25		mg/Kg	1	4/28/2008 10:13:57 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	30		mg/Kg	1	4/20/2008
Acenaphthylene	ND	30		mg/Kg	1	4/20/2008
Aniline	ND	30		mg/Kg	1	4/20/2008
Anthracene	ND	30		mg/Kg	1	4/20/2008
Azobenzene	ND	30		mg/Kg	1	4/20/2008
Benz(a)anthracene	ND	30		mg/Kg	1	4/20/2008
Benzo(a)pyrene	ND	30		mg/Kg	1	4/20/2008
Benzo(b)fluoranthene	ND	30		mg/Kg	1	4/20/2008
Benzo(g,h,i)perylene	ND	75		mg/Kg	1	4/20/2008
Benzo(k)fluoranthene	ND	30		mg/Kg	1	4/20/2008
Benzoic acid	ND	50		mg/Kg	1	4/20/2008
Benzyl alcohol	ND	30		mg/Kg	1	4/20/2008
Bis(2-chloroethoxy)methane	ND	30		mg/Kg	1	4/20/2008
Bis(2-chloroethyl)ether	ND	30		mg/Kg	1	4/20/2008
Bis(2-chloroisopropyl)ether	ND	30		mg/Kg	1	4/20/2008
Bis(2-ethylhexyl)phthalate	ND	75		mg/Kg	1	4/20/2008
4-Bromophenyl phenyl ether	ND	30		mg/Kg	1	4/20/2008
Butyl benzyl phthalate	ND	30		mg/Kg	1	4/20/2008
Carbazole	ND	30		mg/Kg	1	4/20/2008
4-Chloro-3-methylphenol	ND	75		mg/Kg	1	4/20/2008
4-Chloroaniline	ND	75		mg/Kg	1	4/20/2008

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
E Value above quantitation range H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit RL Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-34

Client Sample ID: AL2-5-SS
Collection Date: 4/9/2008 9:40:00 AM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Chloronaphthalene	ND	38		mg/Kg	1	4/20/2008
2-Chlorophenol	ND	30		mg/Kg	1	4/20/2008
4-Chlorophenyl phenyl ether	ND	30		mg/Kg	1	4/20/2008
Chrysene	ND	30		mg/Kg	1	4/20/2008
Di-n-butyl phthalate	ND	75		mg/Kg	1	4/20/2008
Di-n-octyl phthalate	ND	30		mg/Kg	1	4/20/2008
Dibenz(a,h)anthracene	ND	30		mg/Kg	1	4/20/2008
Dibenzofuran	ND	30		mg/Kg	1	4/20/2008
1,2-Dichlorobenzene	ND	30		mg/Kg	1	4/20/2008
1,3-Dichlorobenzene	ND	30		mg/Kg	1	4/20/2008
1,4-Dichlorobenzene	ND	30		mg/Kg	1	4/20/2008
3,3'-Dichlorobenzidine	ND	38		mg/Kg	1	4/20/2008
Diethyl phthalate	ND	30		mg/Kg	1	4/20/2008
Dimethyl phthalate	ND	30		mg/Kg	1	4/20/2008
2,4-Dichlorophenol	ND	30		mg/Kg	1	4/20/2008
2,4-Dimethylphenol	ND	45		mg/Kg	1	4/20/2008
4,6-Dinitro-2-methylphenol	ND	75		mg/Kg	1	4/20/2008
2,4-Dinitrophenol	ND	75		mg/Kg	1	4/20/2008
2,4-Dinitrotoluene	ND	75		mg/Kg	1	4/20/2008
2,6-Dinitrotoluene	ND	75		mg/Kg	1	4/20/2008
Fluoranthene	ND	38		mg/Kg	1	4/20/2008
Fluorene	70	30		mg/Kg	1	4/20/2008
Hexachlorobenzene	ND	30		mg/Kg	1	4/20/2008
Hexachlorobutadiene	ND	30		mg/Kg	1	4/20/2008
Hexachlorocyclopentadiene	ND	30		mg/Kg	1	4/20/2008
Hexachloroethane	ND	30		mg/Kg	1	4/20/2008
Indeno(1,2,3-cd)pyrene	ND	38		mg/Kg	1	4/20/2008
Isophorone	ND	75		mg/Kg	1	4/20/2008
2-Methylnaphthalene	550	38		mg/Kg	1	4/20/2008
2-Methylphenol	ND	75		mg/Kg	1	4/20/2008
3+4-Methylphenol	ND	30		mg/Kg	1	4/20/2008
N-Nitrosodi-n-propylamine	ND	30		mg/Kg	1	4/20/2008
N-Nitrosodiphenylamine	ND	30		mg/Kg	1	4/20/2008
Naphthalene	85	30		mg/Kg	1	4/20/2008
2-Nitroaniline	ND	30		mg/Kg	1	4/20/2008
3-Nitroaniline	ND	30		mg/Kg	1	4/20/2008
4-Nitroaniline	ND	38		mg/Kg	1	4/20/2008
Nitrobenzene	ND	75		mg/Kg	1	4/20/2008
2-Nitrophenol	ND	30		mg/Kg	1	4/20/2008
4-Nitrophenol	ND	30		mg/Kg	1	4/20/2008
Pentachlorophenol	ND	50		mg/Kg	1	4/20/2008
Phenanthrene	250	30		mg/Kg	1	4/20/2008

Qualifiers:
 * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-34

Client Sample ID: AL2-5-SS
Collection Date: 4/9/2008 9:40:00 AM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Phenol	ND	30		mg/Kg	1	4/20/2008
Pyrene	36	30		mg/Kg	1	4/20/2008
Pyridine	ND	75		mg/Kg	1	4/20/2008
1,2,4-Trichlorobenzene	ND	30		mg/Kg	1	4/20/2008
2,4,5-Trichlorophenol	ND	30		mg/Kg	1	4/20/2008
2,4,6-Trichlorophenol	ND	30		mg/Kg	1	4/20/2008
Surr: 2,4,6-Tribromophenol	12.3	35.5-141	S	%REC	1	4/20/2008
Surr: 2-Fluorobiphenyl	36.4	30.4-128		%REC	1	4/20/2008
Surr: 2-Fluorophenol	81.9	28.1-129		%REC	1	4/20/2008
Surr: 4-Terphenyl-d14	84.8	34.6-151		%REC	1	4/20/2008
Surr: Nitrobenzene-d5	84.2	26.5-122		%REC	1	4/20/2008
Surr: Phenol-d5	59.7	37.6-118		%REC	1	4/20/2008
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Benzene	2.3	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
Toluene	18	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
Ethylbenzene	6.4	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
Methyl tert-butyl ether (MTBE)	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
1,2,4-Trimethylbenzene	17	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
1,3,5-Trimethylbenzene	5.6	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
1,2-Dichloroethane (EDC)	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
1,2-Dibromoethane (EDB)	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
Naphthalene	15	1.0		mg/Kg	10	4/20/2008 11:07:25 AM
1-Methylnaphthalene	43	2.0		mg/Kg	10	4/20/2008 11:07:25 AM
2-Methylnaphthalene	36	4.0		mg/Kg	20	4/21/2008 1:48:32 PM
Acetone	ND	7.5		mg/Kg	10	4/20/2008 11:07:25 AM
Bromobenzene	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
Bromodichloromethane	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
Bromoform	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
Bromomethane	ND	1.0		mg/Kg	10	4/20/2008 11:07:25 AM
2-Butanone	ND	5.0		mg/Kg	10	4/20/2008 11:07:25 AM
Carbon disulfide	ND	5.0		mg/Kg	10	4/20/2008 11:07:25 AM
Carbon tetrachloride	ND	1.0		mg/Kg	10	4/20/2008 11:07:25 AM
Chlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
Chloroethane	ND	1.0		mg/Kg	10	4/20/2008 11:07:25 AM
Chloroform	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
Chloromethane	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
2-Chlorotoluene	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
4-Chlorotoluene	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
cis-1,2-DCE	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
cis-1,3-Dichloropropene	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
1,2-Dibromo-3-chloropropane	ND	1.0		mg/Kg	10	4/20/2008 11:07:25 AM

Qualifiers:
 * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 0804138
 Project: Evaporation Pond/Aeration Lagoon
 Lab ID: 0804138-34

Client Sample ID: AL2-5-SS
 Collection Date: 4/9/2008 9:40:00 AM
 Date Received: 4/11/2008
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Dibromochloromethane	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
Dibromomethane	ND	1.0		mg/Kg	10	4/20/2008 11:07:25 AM
1,2-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
1,3-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
1,4-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
Dichlorodifluoromethane	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
1,1-Dichloroethane	ND	1.0		mg/Kg	10	4/20/2008 11:07:25 AM
1,1-Dichloroethene	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
1,2-Dichloropropane	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
1,3-Dichloropropane	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
2,2-Dichloropropane	ND	1.0		mg/Kg	10	4/20/2008 11:07:25 AM
1,1-Dichloropropene	ND	1.0		mg/Kg	10	4/20/2008 11:07:25 AM
Hexachlorobutadiene	ND	1.0		mg/Kg	10	4/20/2008 11:07:25 AM
2-Hexanone	ND	5.0		mg/Kg	10	4/20/2008 11:07:25 AM
Isopropylbenzene	1.7	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
4-Isopropyltoluene	1.0	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
4-Methyl-2-pentanone	ND	5.0		mg/Kg	10	4/20/2008 11:07:25 AM
Methylene chloride	ND	1.5		mg/Kg	10	4/20/2008 11:07:25 AM
n-Butylbenzene	3.4	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
n-Propylbenzene	3.0	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
sec-Butylbenzene	2.0	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
Styrene	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
tert-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
1,1,1,2-Tetrachloroethane	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
1,1,2,2-Tetrachloroethane	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
Tetrachloroethene (PCE)	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
trans-1,2-DCE	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
trans-1,3-Dichloropropene	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
1,2,3-Trichlorobenzene	ND	1.0		mg/Kg	10	4/20/2008 11:07:25 AM
1,2,4-Trichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
1,1,1-Trichloroethane	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
1,1,2-Trichloroethane	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
Trichloroethene (TCE)	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
Trichlorofluoromethane	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
1,2,3-Trichloropropane	ND	1.0		mg/Kg	10	4/20/2008 11:07:25 AM
Vinyl chloride	ND	0.50		mg/Kg	10	4/20/2008 11:07:25 AM
Xylenes, Total	39	1.0		mg/Kg	10	4/20/2008 11:07:25 AM
Surr: 1,2-Dichloroethane-d4	95.2	68.7-122		%REC	10	4/20/2008 11:07:25 AM
Surr: 4-Bromofluorobenzene	83.7	79.3-126		%REC	10	4/20/2008 11:07:25 AM
Surr: Dibromofluoromethane	98.5	64.4-119		%REC	10	4/20/2008 11:07:25 AM
Surr: Toluene-d8	94.7	86.5-121		%REC	10	4/20/2008 11:07:25 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
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 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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-35

Client Sample ID: EP1-1
Collection Date: 4/9/2008 6:25:00 PM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	200000	5000		mg/Kg	50	4/18/2008 10:34:50 PM
Motor Oil Range Organics (MRO)	ND	25000		mg/Kg	50	4/18/2008 10:34:50 PM
Surr: DNOP	0	61.7-135	S	%REC	50	4/18/2008 10:34:50 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	100		mg/Kg	20	4/19/2008 7:24:11 AM
Surr: BFB	98.1	84-138		%REC	20	4/19/2008 7:24:11 AM
EPA METHOD 7471: MERCURY						Analyst: SNV
Mercury	6.8	1.6		mg/Kg	50	4/28/2008 3:35:31 PM
EPA METHOD 6010B: SOIL METALS						Analyst: NMO
Arsenic	5.4	2.5		mg/Kg	1	4/23/2008 8:44:55 AM
Barium	400	1.0		mg/Kg	10	4/23/2008 10:04:24 AM
Cadmium	0.45	0.10		mg/Kg	1	4/23/2008 8:44:55 AM
Chromium	9.7	0.30		mg/Kg	1	4/23/2008 8:44:55 AM
Lead	16	0.25		mg/Kg	1	4/26/2008 10:16:29 AM
Selenium	ND	25		mg/Kg	10	4/23/2008 10:04:24 AM
Silver	ND	0.25		mg/Kg	1	4/26/2008 10:16:29 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	30		mg/Kg	1	4/20/2008
Acenaphthylene	ND	30		mg/Kg	1	4/20/2008
Aniline	ND	30		mg/Kg	1	4/20/2008
Anthracene	ND	30		mg/Kg	1	4/20/2008
Azobenzene	ND	30		mg/Kg	1	4/20/2008
Benz(a)anthracene	ND	30		mg/Kg	1	4/20/2008
Benzo(a)pyrene	ND	30		mg/Kg	1	4/20/2008
Benzo(b)fluoranthene	ND	30		mg/Kg	1	4/20/2008
Benzo(g,h,i)perylene	ND	75		mg/Kg	1	4/20/2008
Benzo(k)fluoranthene	ND	30		mg/Kg	1	4/20/2008
Benzoic acid	ND	50		mg/Kg	1	4/20/2008
Benzyl alcohol	ND	30		mg/Kg	1	4/20/2008
Bis(2-chloroethoxy)methane	ND	30		mg/Kg	1	4/20/2008
Bis(2-chloroethyl)ether	ND	30		mg/Kg	1	4/20/2008
Bis(2-chloroisopropyl)ether	ND	30		mg/Kg	1	4/20/2008
Bis(2-ethylhexyl)phthalate	ND	75		mg/Kg	1	4/20/2008
4-Bromophenyl phenyl ether	ND	30		mg/Kg	1	4/20/2008
Butyl benzyl phthalate	ND	30		mg/Kg	1	4/20/2008
Carbazole	ND	30		mg/Kg	1	4/20/2008
4-Chloro-3-methylphenol	ND	75		mg/Kg	1	4/20/2008
4-Chloroaniline	ND	75		mg/Kg	1	4/20/2008

Qualifiers:

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- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 0804138
 Project: Evaporation Pond/Aeration Lagoon
 Lab ID: 0804138-35

Client Sample ID: EP1-1
 Collection Date: 4/9/2008 6:25:00 PM
 Date Received: 4/11/2008
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Chloronaphthalene	ND	38		mg/Kg	1	4/20/2008
2-Chlorophenol	ND	30		mg/Kg	1	4/20/2008
4-Chlorophenyl phenyl ether	ND	30		mg/Kg	1	4/20/2008
Chrysene	45	30		mg/Kg	1	4/20/2008
Di-n-butyl phthalate	ND	75		mg/Kg	1	4/20/2008
Di-n-octyl phthalate	ND	30		mg/Kg	1	4/20/2008
Dibenz(a,h)anthracene	ND	30		mg/Kg	1	4/20/2008
Dibenzofuran	ND	30		mg/Kg	1	4/20/2008
1,2-Dichlorobenzene	ND	30		mg/Kg	1	4/20/2008
1,3-Dichlorobenzene	ND	30		mg/Kg	1	4/20/2008
1,4-Dichlorobenzene	ND	30		mg/Kg	1	4/20/2008
3,3'-Dichlorobenzidine	ND	38		mg/Kg	1	4/20/2008
Diethyl phthalate	ND	30		mg/Kg	1	4/20/2008
Dimethyl phthalate	ND	30		mg/Kg	1	4/20/2008
2,4-Dichlorophenol	ND	30		mg/Kg	1	4/20/2008
2,4-Dimethylphenol	ND	45		mg/Kg	1	4/20/2008
4,6-Dinitro-2-methylphenol	ND	75		mg/Kg	1	4/20/2008
2,4-Dinitrophenol	ND	75		mg/Kg	1	4/20/2008
2,4-Dinitrotoluene	ND	75		mg/Kg	1	4/20/2008
2,6-Dinitrotoluene	ND	75		mg/Kg	1	4/20/2008
Fluoranthene	ND	38		mg/Kg	1	4/20/2008
Fluorene	53	30		mg/Kg	1	4/20/2008
Hexachlorobenzene	ND	30		mg/Kg	1	4/20/2008
Hexachlorobutadiene	ND	30		mg/Kg	1	4/20/2008
Hexachlorocyclopentadiene	ND	30		mg/Kg	1	4/20/2008
Hexachloroethane	ND	30		mg/Kg	1	4/20/2008
Indeno(1,2,3-cd)pyrene	ND	38		mg/Kg	1	4/20/2008
Isophorone	ND	75		mg/Kg	1	4/20/2008
2-Methylnaphthalene	370	38		mg/Kg	1	4/20/2008
2-Methylphenol	ND	75		mg/Kg	1	4/20/2008
3+4-Methylphenol	53	30		mg/Kg	1	4/20/2008
N-Nitrosodi-n-propylamine	ND	30		mg/Kg	1	4/20/2008
N-Nitrosodiphenylamine	ND	30		mg/Kg	1	4/20/2008
Naphthalene	31	30		mg/Kg	1	4/20/2008
2-Nitroaniline	ND	30		mg/Kg	1	4/20/2008
3-Nitroaniline	ND	30		mg/Kg	1	4/20/2008
4-Nitroaniline	ND	38		mg/Kg	1	4/20/2008
Nitrobenzene	ND	75		mg/Kg	1	4/20/2008
2-Nitrophenol	ND	30		mg/Kg	1	4/20/2008
4-Nitrophenol	ND	30		mg/Kg	1	4/20/2008
Pentachlorophenol	ND	50		mg/Kg	1	4/20/2008
Phenanthrene	330	30		mg/Kg	1	4/20/2008

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-35

Client Sample ID: EP1-1
Collection Date: 4/9/2008 6:25:00 PM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Phenol	ND	30		mg/Kg	1	4/20/2008
Pyrene	47	30		mg/Kg	1	4/20/2008
Pyridine	ND	75		mg/Kg	1	4/20/2008
1,2,4-Trichlorobenzene	ND	30		mg/Kg	1	4/20/2008
2,4,5-Trichlorophenol	ND	30		mg/Kg	1	4/20/2008
2,4,6-Trichlorophenol	ND	30		mg/Kg	1	4/20/2008
Surr: 2,4,6-Tribromophenol	28.9	35.5-141	S	%REC	1	4/20/2008
Surr: 2-Fluorobiphenyl	66.1	30.4-128		%REC	1	4/20/2008
Surr: 2-Fluorophenol	104	28.1-129		%REC	1	4/20/2008
Surr: 4-Terphenyl-d14	127	34.6-151		%REC	1	4/20/2008
Surr: Nitrobenzene-d5	88.0	26.5-122		%REC	1	4/20/2008
Surr: Phenol-d5	75.6	37.6-118		%REC	1	4/20/2008
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Benzene	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
Toluene	0.51	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
Ethylbenzene	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
Methyl tert-butyl ether (MTBE)	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
1,2,4-Trimethylbenzene	1.5	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
1,3,5-Trimethylbenzene	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
1,2-Dichloroethane (EDC)	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
1,2-Dibromoethane (EDB)	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
Naphthalene	2.6	1.0		mg/Kg	10	4/20/2008 11:43:12 AM
1-Methylnaphthalene	12	2.0		mg/Kg	10	4/20/2008 11:43:12 AM
2-Methylnaphthalene	16	2.0		mg/Kg	10	4/20/2008 11:43:12 AM
Acetone	ND	7.5		mg/Kg	10	4/20/2008 11:43:12 AM
Bromobenzene	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
Bromodichloromethane	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
Bromoform	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
Bromomethane	ND	1.0		mg/Kg	10	4/20/2008 11:43:12 AM
2-Butanone	ND	5.0		mg/Kg	10	4/20/2008 11:43:12 AM
Carbon disulfide	ND	5.0		mg/Kg	10	4/20/2008 11:43:12 AM
Carbon tetrachloride	ND	1.0		mg/Kg	10	4/20/2008 11:43:12 AM
Chlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
Chloroethane	ND	1.0		mg/Kg	10	4/20/2008 11:43:12 AM
Chloroform	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
Chloromethane	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
2-Chlorotoluene	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
4-Chlorotoluene	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
cis-1,2-DCE	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
cis-1,3-Dichloropropene	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
1,2-Dibromo-3-chloropropane	ND	1.0		mg/Kg	10	4/20/2008 11:43:12 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- 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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 0804138
 Project: Evaporation Pond/Aeration Lagoon
 Lab ID: 0804138-35

Client Sample ID: EP1-1
 Collection Date: 4/9/2008 6:25:00 PM
 Date Received: 4/11/2008
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Dibromochloromethane	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
Dibromomethane	ND	1.0		mg/Kg	10	4/20/2008 11:43:12 AM
1,2-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
1,3-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
1,4-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
Dichlorodifluoromethane	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
1,1-Dichloroethane	ND	1.0		mg/Kg	10	4/20/2008 11:43:12 AM
1,1-Dichloroethene	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
1,2-Dichloropropane	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
1,3-Dichloropropane	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
2,2-Dichloropropane	ND	1.0		mg/Kg	10	4/20/2008 11:43:12 AM
1,1-Dichloropropene	ND	1.0		mg/Kg	10	4/20/2008 11:43:12 AM
Hexachlorobutadiene	ND	1.0		mg/Kg	10	4/20/2008 11:43:12 AM
2-Hexanone	ND	5.0		mg/Kg	10	4/20/2008 11:43:12 AM
Isopropylbenzene	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
4-Isopropyltoluene	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
4-Methyl-2-pentanone	ND	5.0		mg/Kg	10	4/20/2008 11:43:12 AM
Methylene chloride	ND	1.5		mg/Kg	10	4/20/2008 11:43:12 AM
n-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
n-Propylbenzene	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
sec-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
Styrene	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
tert-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
1,1,1,2-Tetrachloroethane	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
1,1,2,2-Tetrachloroethane	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
Tetrachloroethene (PCE)	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
trans-1,2-DCE	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
trans-1,3-Dichloropropene	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
1,2,3-Trichlorobenzene	ND	1.0		mg/Kg	10	4/20/2008 11:43:12 AM
1,2,4-Trichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
1,1,1-Trichloroethane	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
1,1,2-Trichloroethane	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
Trichloroethene (TCE)	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
Trichlorofluoromethane	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
1,2,3-Trichloropropane	ND	1.0		mg/Kg	10	4/20/2008 11:43:12 AM
Vinyl chloride	ND	0.50		mg/Kg	10	4/20/2008 11:43:12 AM
Xylenes, Total	ND	1.0		mg/Kg	10	4/20/2008 11:43:12 AM
Surr: 1,2-Dichloroethane-d4	91.7	68.7-122		%REC	10	4/20/2008 11:43:12 AM
Surr: 4-Bromofluorobenzene	104	79.3-126		%REC	10	4/20/2008 11:43:12 AM
Surr: Dibromofluoromethane	96.5	64.4-119		%REC	10	4/20/2008 11:43:12 AM
Surr: Toluene-d8	96.7	86.5-121		%REC	10	4/20/2008 11:43:12 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 0804138
 Project: Evaporation Pond/Aeration Lagoon
 Lab ID: 0804138-36

Client Sample ID: EP1-2
 Collection Date: 4/9/2008 6:45:00 PM
 Date Received: 4/11/2008
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	150000	5000		mg/Kg	50	4/18/2008 11:08:22 PM
Motor Oil Range Organics (MRO)	ND	25000		mg/Kg	50	4/18/2008 11:08:22 PM
Surr: DNOP	0	61.7-135	S	%REC	50	4/18/2008 11:08:22 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	100		mg/Kg	20	4/19/2008 7:54:10 AM
Surr: BFB	108	84-138		%REC	20	4/19/2008 7:54:10 AM
EPA METHOD 7471: MERCURY						Analyst: SNV
Mercury	4.4	1.6		mg/Kg	50	4/28/2008 3:38:43 PM
EPA METHOD 6010B: SOIL METALS						Analyst: NMO
Arsenic	17	2.5		mg/Kg	1	4/23/2008 8:47:38 AM
Barium	190	1.0		mg/Kg	10	4/23/2008 10:08:46 AM
Cadmium	0.58	0.10		mg/Kg	1	4/23/2008 8:47:38 AM
Chromium	24	0.30		mg/Kg	1	4/23/2008 8:47:38 AM
Lead	18	0.25		mg/Kg	1	4/28/2008 10:19:02 AM
Selenium	ND	25		mg/Kg	10	4/23/2008 10:08:46 AM
Silver	ND	0.25		mg/Kg	1	4/28/2008 10:19:02 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	30		mg/Kg	1	4/20/2008
Acenaphthylene	ND	30		mg/Kg	1	4/20/2008
Aniline	ND	30		mg/Kg	1	4/20/2008
Anthracene	ND	30		mg/Kg	1	4/20/2008
Azobenzene	ND	30		mg/Kg	1	4/20/2008
Benz(a)anthracene	ND	30		mg/Kg	1	4/20/2008
Benzo(a)pyrene	ND	30		mg/Kg	1	4/20/2008
Benzo(b)fluoranthene	ND	30		mg/Kg	1	4/20/2008
Benzo(g,h,i)perylene	ND	75		mg/Kg	1	4/20/2008
Benzo(k)fluoranthene	ND	30		mg/Kg	1	4/20/2008
Benzic acid	ND	50		mg/Kg	1	4/20/2008
Benzyl alcohol	ND	30		mg/Kg	1	4/20/2008
Bis(2-chloroethoxy)methane	ND	30		mg/Kg	1	4/20/2008
Bis(2-chloroethyl)ether	ND	30		mg/Kg	1	4/20/2008
Bis(2-chloroisopropyl)ether	ND	30		mg/Kg	1	4/20/2008
Bis(2-ethylhexyl)phthalate	ND	75		mg/Kg	1	4/20/2008
4-Bromophenyl phenyl ether	ND	30		mg/Kg	1	4/20/2008
Butyl benzyl phthalate	ND	30		mg/Kg	1	4/20/2008
Carbazole	ND	30		mg/Kg	1	4/20/2008
4-Chloro-3-methylphenol	ND	75		mg/Kg	1	4/20/2008
4-Chloroaniline	ND	75		mg/Kg	1	4/20/2008

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 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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-36

Client Sample ID: EP1-2
Collection Date: 4/9/2008 6:45:00 PM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Chloronaphthalene	ND	38		mg/Kg	1	4/20/2008
2-Chlorophenol	ND	30		mg/Kg	1	4/20/2008
4-Chlorophenyl phenyl ether	ND	30		mg/Kg	1	4/20/2008
Chrysene	ND	30		mg/Kg	1	4/20/2008
Di-n-butyl phthalate	ND	75		mg/Kg	1	4/20/2008
Di-n-octyl phthalate	ND	30		mg/Kg	1	4/20/2008
Dibenz(a,h)anthracene	ND	30		mg/Kg	1	4/20/2008
Dibenzofuran	ND	30		mg/Kg	1	4/20/2008
1,2-Dichlorobenzene	ND	30		mg/Kg	1	4/20/2008
1,3-Dichlorobenzene	ND	30		mg/Kg	1	4/20/2008
1,4-Dichlorobenzene	ND	30		mg/Kg	1	4/20/2008
3,3'-Dichlorobenzidine	ND	38		mg/Kg	1	4/20/2008
Diethyl phthalate	ND	30		mg/Kg	1	4/20/2008
Dimethyl phthalate	ND	30		mg/Kg	1	4/20/2008
2,4-Dichlorophenol	ND	30		mg/Kg	1	4/20/2008
2,4-Dimethylphenol	ND	45		mg/Kg	1	4/20/2008
4,6-Dinitro-2-methylphenol	ND	75		mg/Kg	1	4/20/2008
2,4-Dinitrophenol	ND	75		mg/Kg	1	4/20/2008
2,4-Dinitrotoluene	ND	75		mg/Kg	1	4/20/2008
2,6-Dinitrotoluene	ND	75		mg/Kg	1	4/20/2008
Fluoranthene	ND	38		mg/Kg	1	4/20/2008
Fluorene	ND	30		mg/Kg	1	4/20/2008
Hexachlorobenzene	ND	30		mg/Kg	1	4/20/2008
Hexachlorobutadiene	ND	30		mg/Kg	1	4/20/2008
Hexachlorocyclopentadiene	ND	30		mg/Kg	1	4/20/2008
Hexachloroethane	ND	30		mg/Kg	1	4/20/2008
Indeno(1,2,3-cd)pyrene	ND	38		mg/Kg	1	4/20/2008
Isophorone	ND	75		mg/Kg	1	4/20/2008
2-Methylnaphthalene	58	38		mg/Kg	1	4/20/2008
2-Methylphenol	ND	75		mg/Kg	1	4/20/2008
3+4-Methylphenol	34	30		mg/Kg	1	4/20/2008
N-Nitrosodi-n-propylamine	ND	30		mg/Kg	1	4/20/2008
N-Nitrosodiphenylamine	ND	30		mg/Kg	1	4/20/2008
Naphthalene	ND	30		mg/Kg	1	4/20/2008
2-Nitroaniline	ND	30		mg/Kg	1	4/20/2008
3-Nitroaniline	ND	30		mg/Kg	1	4/20/2008
4-Nitroaniline	ND	38		mg/Kg	1	4/20/2008
Nitrobenzene	ND	75		mg/Kg	1	4/20/2008
2-Nitrophenol	ND	30		mg/Kg	1	4/20/2008
4-Nitrophenol	ND	30		mg/Kg	1	4/20/2008
Pentachlorophenol	ND	50		mg/Kg	1	4/20/2008
Phenanthrene	71	30		mg/Kg	1	4/20/2008

Qualifiers:

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- ND Not Detected at the Reporting Limit
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B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
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Hall Environmental Analysis Laboratory, Inc.

Date: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-36

Client Sample ID: EP1-2
Collection Date: 4/9/2008 6:45:00 PM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Phenol	ND	30		mg/Kg	1	4/20/2008
Pyrene	ND	30		mg/Kg	1	4/20/2008
Pyridine	ND	75		mg/Kg	1	4/20/2008
1,2,4-Trichlorobenzene	ND	30		mg/Kg	1	4/20/2008
2,4,5-Trichlorophenol	ND	30		mg/Kg	1	4/20/2008
2,4,6-Trichlorophenol	ND	30		mg/Kg	1	4/20/2008
Surr: 2,4,6-Tribromophenol	78.3	35.5-141		%REC	1	4/20/2008
Surr: 2-Fluorobiphenyl	80.4	30.4-128		%REC	1	4/20/2008
Surr: 2-Fluorophenol	99.3	28.1-129		%REC	1	4/20/2008
Surr: 4-Terphenyl-d14	160	34.6-151	S	%REC	1	4/20/2008
Surr: Nitrobenzene-d5	74.7	26.5-122		%REC	1	4/20/2008
Surr: Phenol-d5	78.1	37.6-118		%REC	1	4/20/2008
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Benzene	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
Toluene	0.51	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
Ethylbenzene	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
Methyl tert-butyl ether (MTBE)	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
1,2,4-Trimethylbenzene	1.4	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
1,3,5-Trimethylbenzene	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
1,2-Dichloroethane (EDC)	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
1,2-Dibromoethane (EDB)	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
Naphthalene	1.4	1.0		mg/Kg	10	4/20/2008 12:18:36 PM
1-Methylnaphthalene	5.8	2.0		mg/Kg	10	4/20/2008 12:18:36 PM
2-Methylnaphthalene	7.7	2.0		mg/Kg	10	4/20/2008 12:18:36 PM
Acetone	ND	7.5		mg/Kg	10	4/20/2008 12:18:36 PM
Bromobenzene	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
Bromodichloromethane	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
Bromoform	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
Bromomethane	ND	1.0		mg/Kg	10	4/20/2008 12:18:36 PM
2-Butanone	ND	5.0		mg/Kg	10	4/20/2008 12:18:36 PM
Carbon disulfide	ND	5.0		mg/Kg	10	4/20/2008 12:18:36 PM
Carbon tetrachloride	ND	1.0		mg/Kg	10	4/20/2008 12:18:36 PM
Chlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
Chloroethane	ND	1.0		mg/Kg	10	4/20/2008 12:18:36 PM
Chloroform	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
Chloromethane	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
2-Chlorotoluene	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
4-Chlorotoluene	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
cis-1,2-DCE	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
cis-1,3-Dichloropropene	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
1,2-Dibromo-3-chloropropane	ND	1.0		mg/Kg	10	4/20/2008 12:18:36 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
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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: 29-Apr-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0804138
Project: Evaporation Pond/Aeration Lagoon
Lab ID: 0804138-36

Client Sample ID: EP1-2
Collection Date: 4/9/2008 6:45:00 PM
Date Received: 4/11/2008
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Dibromochloromethane	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
Dibromomethane	ND	1.0		mg/Kg	10	4/20/2008 12:18:36 PM
1,2-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
1,3-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
1,4-Dichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
Dichlorodifluoromethane	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
1,1-Dichloroethane	ND	1.0		mg/Kg	10	4/20/2008 12:18:36 PM
1,1-Dichloroethene	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
1,2-Dichloropropane	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
1,3-Dichloropropane	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
2,2-Dichloropropane	ND	1.0		mg/Kg	10	4/20/2008 12:18:36 PM
1,1-Dichloropropene	ND	1.0		mg/Kg	10	4/20/2008 12:18:36 PM
Hexachlorobutadiene	ND	1.0		mg/Kg	10	4/20/2008 12:18:36 PM
2-Hexanone	ND	5.0		mg/Kg	10	4/20/2008 12:18:36 PM
Isopropylbenzene	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
4-Isopropyltoluene	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
4-Methyl-2-pentanone	ND	5.0		mg/Kg	10	4/20/2008 12:18:36 PM
Methylene chloride	ND	1.5		mg/Kg	10	4/20/2008 12:18:36 PM
n-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
n-Propylbenzene	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
sec-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
Styrene	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
tert-Butylbenzene	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
1,1,1,2-Tetrachloroethane	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
1,1,2,2-Tetrachloroethane	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
Tetrachloroethene (PCE)	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
trans-1,2-DCE	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
trans-1,3-Dichloropropene	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
1,2,3-Trichlorobenzene	ND	1.0		mg/Kg	10	4/20/2008 12:18:36 PM
1,2,4-Trichlorobenzene	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
1,1,1-Trichloroethane	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
1,1,2-Trichloroethane	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
Trichloroethene (TCE)	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
Trichlorofluoromethane	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
1,2,3-Trichloropropane	ND	1.0		mg/Kg	10	4/20/2008 12:18:36 PM
Vinyl chloride	ND	0.50		mg/Kg	10	4/20/2008 12:18:36 PM
Xylenes, Total	1.0	1.0		mg/Kg	10	4/20/2008 12:18:36 PM
Surr: 1,2-Dichloroethane-d4	95.3	68.7-122		%REC	10	4/20/2008 12:18:36 PM
Surr: 4-Bromofluorobenzene	83.1	79.3-126		%REC	10	4/20/2008 12:18:36 PM
Surr: Dibromofluoromethane	99.0	64.4-119		%REC	10	4/20/2008 12:18:36 PM
Surr: Toluene-d8	97.3	86.5-121		%REC	10	4/20/2008 12:18:36 PM

Qualifiers:
 * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 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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 RL Reporting Limit

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Evaporation Pond/Aeration Lagoon

Work Order: 0804138

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Diesel Range Organics									
Sample ID: MB-15653		MBLK							
					Batch ID: 15653		Analysis Date: 4/16/2008 6:17:27 PM		
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Motor Oil Range Organics (MRO)	ND	mg/Kg	50						
Sample ID: MB-15654		MBLK							
					Batch ID: 15654		Analysis Date: 4/16/2008 8:00:27 PM		
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Motor Oil Range Organics (MRO)	ND	mg/Kg	50						
Sample ID: LCS-15653		LCS							
					Batch ID: 15653		Analysis Date: 4/16/2008 6:51:47 PM		
Diesel Range Organics (DRO)	43.17	mg/Kg	10	86.3	64.6	116			
Sample ID: LCS-15654		LCS							
					Batch ID: 15654		Analysis Date: 4/16/2008 8:34:51 PM		
Diesel Range Organics (DRO)	42.92	mg/Kg	10	85.8	64.6	116			
Sample ID: LCSD-15653		LCSD							
					Batch ID: 15653		Analysis Date: 4/16/2008 7:26:07 PM		
Diesel Range Organics (DRO)	42.84	mg/Kg	10	85.7	64.6	116	0.781	17.4	
Sample ID: LCSD-15654		LCSD							
					Batch ID: 15654		Analysis Date: 4/16/2008 9:09:11 PM		
Diesel Range Organics (DRO)	45.88	mg/Kg	10	91.8	64.6	116	6.66	17.4	
Method: EPA Method 8015B: Gasoline Range									
Sample ID: MB-15641		MBLK							
					Batch ID: 15641		Analysis Date: 4/17/2008 12:40:47 AM		
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Sample ID: MB-15642		MBLK							
					Batch ID: 15642		Analysis Date: 4/17/2008 11:07:42 PM		
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Sample ID: LCS-15641		LCS							
					Batch ID: 15641		Analysis Date: 4/16/2008 11:40:25 PM		
Gasoline Range Organics (GRO)	24.68	mg/Kg	5.0	98.7	69.5	120			
Sample ID: LCS-15642		LCS							
					Batch ID: 15642		Analysis Date: 4/17/2008 10:07:36 PM		
Gasoline Range Organics (GRO)	24.50	mg/Kg	5.0	98.0	69.5	120			
Sample ID: LCSD-15641		LCSD							
					Batch ID: 15641		Analysis Date: 4/17/2008 12:10:42 AM		
Gasoline Range Organics (GRO)	24.48	mg/Kg	5.0	97.9	69.5	120	0.814	11.6	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Evaporation Pond/Aeration Lagoon

Work Order: 0804138

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

Sample ID: mb-15689

MBLK

Batch ID: 15689

Analysis Date:

4/17/2008

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	0.50
Benzo(k)fluoranthene	ND	mg/Kg	0.20
Benzoic acid	ND	mg/Kg	0.33
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	0.20
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
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	0.20
2,4-Dimethylphenol	ND	mg/Kg	0.30
4,6-Dinitro-2-methylphenol	ND	mg/Kg	0.50
2,4-Dinitrophenol	ND	mg/Kg	0.50
2,4-Dinitrotoluene	ND	mg/Kg	0.50
2,6-Dinitrotoluene	ND	mg/Kg	0.50
Fluoranthene	ND	mg/Kg	0.25
Fluorene	ND	mg/Kg	0.20
Hexachlorobenzene	ND	mg/Kg	0.20

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: Evaporation Pond/Aeration Lagoon

Work Order: 0804138

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

Sample ID: mb-15669

MBLK

Batch ID:

15669

Analysis Date:

4/17/2008

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	0.25
Isophorone	ND	mg/Kg	0.50
2-Methylnaphthalene	ND	mg/Kg	0.25
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	0.25
Nitrobenzene	ND	mg/Kg	0.50
2-Nitrophenol	ND	mg/Kg	0.20
4-Nitrophenol	ND	mg/Kg	0.20
Pentachlorophenol	ND	mg/Kg	0.33
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: mb-15682

MBLK

Batch ID:

15682

Analysis Date:

4/18/2008

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	0.50
Benzo(k)fluoranthene	ND	mg/Kg	0.20
Benzoic acid	ND	mg/Kg	0.33
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

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: Evaporation Pond/Aeration Lagoon

Work Order: 0804138

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

Sample ID: mb-15682

MBLK

Batch ID: 15682 Analysis Date: 4/18/2008

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	0.20
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
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	0.20
2,4-Dimethylphenol	ND	mg/Kg	0.30
4,6-Dinitro-2-methylphenol	ND	mg/Kg	0.50
2,4-Dinitrophenol	ND	mg/Kg	0.50
2,4-Dinitrotoluene	ND	mg/Kg	0.50
2,6-Dinitrotoluene	ND	mg/Kg	0.50
Fluoranthene	ND	mg/Kg	0.25
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	0.25
Isophorone	ND	mg/Kg	0.50
2-Methylnaphthalene	ND	mg/Kg	0.25
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	0.25
Nitrobenzene	ND	mg/Kg	0.50
2-Nitrophenol	ND	mg/Kg	0.20
4-Nitrophenol	ND	mg/Kg	0.20
Pentachlorophenol	ND	mg/Kg	0.33

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: Evaporation Pond/Aeration Lagoon

Work Order: 0804138

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

Sample ID: mb-15682 MBLK Batch ID: 15682 Analysis Date: 4/18/2008

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-15669 LCS Batch ID: 15669 Analysis Date: 4/17/2008

Acenaphthene	0.9563	mg/Kg	0.20	57.3	46.6	109
4-Chloro-3-methylphenol	2.026	mg/Kg	0.50	60.9	43.3	116
2-Chlorophenol	1.973	mg/Kg	0.20	59.2	42.5	108
1,4-Dichlorobenzene	1.052	mg/Kg	0.20	63.0	32.4	115
2,4-Dinitrotoluene	0.9647	mg/Kg	0.50	57.8	45.1	100
N-Nitrosodi-n-propylamine	1.003	mg/Kg	0.20	60.1	43	113
4-Nitrophenol	2.093	mg/Kg	0.20	62.9	37.3	123
Pentachlorophenol	2.104	mg/Kg	0.33	63.2	31.9	116
Phenol	2.015	mg/Kg	0.20	60.5	41.6	111
Pyrene	0.8913	mg/Kg	0.20	53.4	37.3	105
1,2,4-Trichlorobenzene	1.086	mg/Kg	0.20	65.0	30.4	114

Sample ID: lcs-15682 LCS Batch ID: 15682 Analysis Date: 4/18/2008

Acenaphthene	0.9750	mg/Kg	0.20	58.4	46.6	109
4-Chloro-3-methylphenol	2.085	mg/Kg	0.50	62.6	43.3	116
2-Chlorophenol	2.026	mg/Kg	0.20	60.8	42.5	108
1,4-Dichlorobenzene	1.038	mg/Kg	0.20	62.2	32.4	115
2,4-Dinitrotoluene	0.9477	mg/Kg	0.50	56.7	45.1	100
N-Nitrosodi-n-propylamine	0.9840	mg/Kg	0.20	58.9	43	113
4-Nitrophenol	1.697	mg/Kg	0.20	51.0	37.3	123
Pentachlorophenol	1.895	mg/Kg	0.33	56.9	31.9	116
Phenol	1.922	mg/Kg	0.20	57.7	41.6	111
Pyrene	0.9677	mg/Kg	0.20	57.9	37.3	105
1,2,4-Trichlorobenzene	1.124	mg/Kg	0.20	67.3	30.4	114

Method: EPA Method 7471: Mercury

Sample ID: MB-15688 MBLK Batch ID: 15688 Analysis Date: 4/18/2008 3:16:25 PM

Mercury ND mg/Kg 0.033

Sample ID: MB-15767 MBLK Batch ID: 15767 Analysis Date: 4/28/2008 2:31:52 PM

Mercury ND mg/Kg 0.033

Sample ID: LCS-15688 LCS Batch ID: 15688 Analysis Date: 4/18/2008 3:17:58 PM

Mercury 0.1661 mg/Kg 0.033 99.7 80 120

Sample ID: LCS-15767 LCS Batch ID: 15767 Analysis Date: 4/28/2008 2:33:26 PM

Mercury 0.1608 mg/Kg 0.033 94.4 80 120

Qualifiers:

E Value above quantitation range

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Evaporation Pond/Aeration Lagoon

Work Order: 0804138

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 6010B: Soil Metals									
Sample ID: MB-15629	MBLK		Batch ID: 15629 Analysis Date: 4/16/2008 7:48:38 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						
Lead	ND	mg/Kg	0.25						
Selenium	ND	mg/Kg	2.5						
Silver	ND	mg/Kg	0.25						
Sample ID: MB-15664	MBLK		Batch ID: 15664 Analysis Date: 4/21/2008 9:14:32 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						
Selenium	ND	mg/Kg	2.5						
Silver	ND	mg/Kg	0.25						
Sample ID: MB-15708	MBLK		Batch ID: 15708 Analysis Date: 4/23/2008 7:56:25 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						
Selenium	ND	mg/Kg	2.5						
Sample ID: MB-15684	MBLK		Batch ID: 15684 Analysis Date: 4/28/2008 7:36:54 AM						
Lead	ND	mg/Kg	0.25						
Sample ID: MB-15708	MBLK		Batch ID: 15708 Analysis Date: 4/28/2008 9:28:38 AM						
Lead	ND	mg/Kg	0.25						
Silver	ND	mg/Kg	0.25						
Sample ID: LCS-15629	LCS		Batch ID: 15629 Analysis Date: 4/16/2008 7:51:14 AM						
Arsenic	23.52	mg/Kg	2.5	94.1	80	120			
Barium	24.17	mg/Kg	0.10	96.3	80	120			
Cadmium	24.12	mg/Kg	0.10	96.5	80	120			
Chromium	24.50	mg/Kg	0.30	98.0	80	120			
Lead	23.25	mg/Kg	0.25	93.0	80	120			
Selenium	24.71	mg/Kg	2.5	98.8	80	120			
Silver	24.42	mg/Kg	0.25	97.2	80	120			
Sample ID: LCS-15664	LCS		Batch ID: 15664 Analysis Date: 4/21/2008 9:17:11 AM						
Arsenic	24.46	mg/Kg	2.5	97.8	80	120			
Barium	25.36	mg/Kg	0.10	101	80	120			
Cadmium	26.14	mg/Kg	0.10	105	80	120			
Chromium	26.14	mg/Kg	0.30	105	80	120			
Selenium	25.50	mg/Kg	2.5	102	80	120			
Silver	25.83	mg/Kg	0.25	103	80	120			
Sample ID: LCS-15708	LCS		Batch ID: 15708 Analysis Date: 4/23/2008 7:59:01 AM						
Arsenic	24.89	mg/Kg	2.5	99.5	80	120			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Evaporation Pond/Aeration Lagoon

Work Order: 0804138

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 6010B: Soil Metals									
Sample ID: LCS-15708		LCS			Batch ID: 15708	Analysis Date: 4/23/2008 7:59:01 AM			
Barium	25.23	mg/Kg	0.10	101	80	120			
Cadmium	24.98	mg/Kg	0.10	99.5	80	120			
Chromium	25.63	mg/Kg	0.30	103	80	120			
Selenium	25.36	mg/Kg	2.5	95.3	80	120			
Sample ID: LCS-15664		LCS			Batch ID: 15664	Analysis Date: 4/28/2008 7:39:25 AM			
Lead	24.63	mg/Kg	0.25	98.5	80	120			
Sample ID: LCS-15708		LCS			Batch ID: 15708	Analysis Date: 4/28/2008 9:28:37 AM			
Lead	26.03	mg/Kg	0.25	104	80	120			
Silver	24.64	mg/Kg	0.25	98.5	80	120			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: Evaporation Pond/Aeration Lagoon

Work Order: 0804138

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: mb-15641		MBLK			Batch ID: 15641	Analysis Date: 4/19/2008 12:03:32 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	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: Evaporation Pond/Aeration Lagoon

Work Order: 0804138

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

Sample ID: mb-15641

MBLK

Batch ID: 15641 Analysis Date: 4/19/2008 12:03:32 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: mb-15642

MBLK

Batch ID: 15642 Analysis Date: 4/20/2008 2:16:06 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	0.10
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

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup

Project: Evaporation Pond/Aeration Lagoon

Work Order: 0804138

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

Sample ID: mtb-15642

MBLK

Batch ID: 15642 Analysis Date: 4/20/2008 2:16:06 AM

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
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-15641

LCS

Batch ID: 15641 Analysis Date: 4/19/2008 12:39:09 PM

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Evaporation Pond/Aeration Lagoon

Work Order: 0804138

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Project: 20080419									
Method: EPA Method 8260B: VOLATILES									
Sample ID: lcs-15641		LCS			Batch ID: 15641	Analysis Date: 4/19/2008 12:39:09 PM			
Benzene	1.034	mg/Kg	0.050	103	66.9	142			
Toluene	0.9402	mg/Kg	0.050	94.0	78.4	128			
Chlorobenzene	0.9868	mg/Kg	0.050	98.7	78.2	127			
1,1-Dichloroethene	1.059	mg/Kg	0.050	106	72.6	150			
Trichloroethene (TCE)	0.7977	mg/Kg	0.050	79.8	72.2	120			
Sample ID: lcs-15642		LCS			Batch ID: 15642	Analysis Date: 4/20/2008 2:51:27 AM			
Benzene	1.018	mg/Kg	0.050	102	66.9	142			
Toluene	0.9517	mg/Kg	0.050	95.2	78.4	128			
Chlorobenzene	0.9958	mg/Kg	0.050	99.6	78.2	127			
1,1-Dichloroethene	0.9984	mg/Kg	0.050	99.8	72.6	150			
Trichloroethene (TCE)	0.7805	mg/Kg	0.050	78.1	72.2	120			
Sample ID: lcsd-15641		LCSD			Batch ID: 15641	Analysis Date: 4/19/2008 1:15:05 PM			
Benzene	1.023	mg/Kg	0.050	102	66.9	142	1.12	20	
Toluene	0.9445	mg/Kg	0.050	94.4	78.4	128	0.453	20	
Chlorobenzene	1.021	mg/Kg	0.050	102	78.2	127	3.42	20	
1,1-Dichloroethene	1.099	mg/Kg	0.050	110	72.6	150	3.63	20	
Trichloroethene (TCE)	0.7770	mg/Kg	0.050	77.7	72.2	120	2.62	20	
Sample ID: lcsd-15642		LCSD			Batch ID: 15642	Analysis Date: 4/20/2008 3:26:44 AM			
Benzene	1.054	mg/Kg	0.050	105	66.9	142	3.49	20	
Toluene	0.8732	mg/Kg	0.050	87.3	78.4	128	8.60	20	
Chlorobenzene	0.9538	mg/Kg	0.050	95.4	78.2	127	4.30	20	
1,1-Dichloroethene	1.048	mg/Kg	0.050	105	72.6	150	4.84	20	
Trichloroethene (TCE)	0.7644	mg/Kg	0.050	78.4	72.2	120	0.492	20	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Evaporation Pond/Aeration Lagoon

Work Order: 0804138

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

Sample ID: 5ml rb II

MBLK

Batch ID: R28173 Analysis Date: 4/19/2008 6:07:13 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	1.0
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	1.0
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	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Evaporation Pond/Aeration Lagoon

Work Order: 0804138

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

Sample ID: 5ml rb II

MBLK

Batch ID: R28173 Analysis Date: 4/19/2008 6:07:13 AM

4-Methyl-2-pentanone	ND	µg/L	1.0
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 Ics II

LCS

Batch ID: R28173 Analysis Date: 4/19/2008 5:38:04 AM

Benzene	21.72	µg/L	1.0	109	86.8	120
Toluene	18.58	µg/L	1.0	92.9	64.1	127
Chlorobenzene	17.96	µg/L	1.0	89.8	82.4	113
1,1-Dichloroethene	25.96	µg/L	1.0	130	86.5	132
Trichloroethene (TCE)	21.13	µg/L	1.0	106	77.3	123

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
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:

4/11/2008

Work Order Number 0804138

Received by: AT

Checklist completed by:

Signature

Date

Sample ID labels checked by:

AS / AT
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?

3°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

Corrective Action

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmetal.com

4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

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

☒ Standard ☐ Rush

Evaporation Pond/Activation Leachate
Project #:

Project #

19-09-81

Project Manager:

Regina Allen

Sampler: Y. J. 

Office	XXXX	Eno	XXXX
Sample temperature	XXXX	XXXX	XXXX

Sample Request ID

Type and #

Fuel Valve Type

HEAL No.

4.9.08	6:15pm	EPI-3	402/2	None	-1	X	X	X
4.9.08	6:00pm	EPI-4	402/2	None	-2	X	X	X
4.9.08	5:45pm	EPI-5	402/2	None	-3	X	X	X
4.10.08	1525	ALI-1-HP	402/2	None	-4	X	X	X
4.10.08	1622	ALI-2-HP	402/2	None	-5	X	X	X
4.10.08	2:15pm	ALI-3-HP	402/2	None	-6	X	X	X
4.10.08	1050	ALI-4-HP	402/2	None	-7	X	X	X
4.10.08	1020	ALI-5-HP	402/2	None	-8	X	X	X
4.10.08	1710	ALI-1-SS	402/2	None	-9	X	X	X
4.10.08	1725	ALI-2-SS	402/2	None	-10	X	X	X
4.10.08	1735	ALI-3-SS	402/2	None	-11	X	X	X
4.10.08	1755	ALI-4-SS	402/2	None	-12	X	X	X

Remarks:

Received by:

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.

Hall Environmental Analysis Laboratory, Inc.

Date: 21-May-08

CLIENT: Western Refining Southwest, Gallup
Project: Evaporation Pond/Aeration Lagoon
Lab Order: 0804138

CASE NARRATIVE

Analytical notes:**Sample Analysis:****EPA method 8015B**

"S" flags denote that the surrogate was not recoverable due to sample dilution and/or matrix interferences.

EPA method 8270B

"S" flags denote that the surrogate was low or not recoverable due to sample dilution and/or matrix interferences.

MS/MSD:**EPA Method 8015B, 8021B, 8270B**

"S" flags denote that the recovery of the spiked compounds were poor due to dilution and matrix interferences. Several of the 8270B phenols were not recoverable due to high concentrations of petroleum hydrocarbons.

EPA Method 7471

Mercury was not recovered due to the high level of mercury in the sample. The amount that was spiked into the sample was diluted out by the x50 dilution.

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Evaporation Pond/Aeration Lagoon

Work Order: 0804138

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range									
Sample ID: 0804138-32AMSD	MSD		Batch ID: 15642		Analysis Date: 4/18/2008 8:52:40 PM				
Gasoline Range Organics (GRO)	661.2	mg/Kg	100	132	69.5	120	1.17	11.6	S
Sample ID: 0804138-32AMS	MS		Batch ID: 15642		Analysis Date: 4/18/2008 8:22:32 PM				
Gasoline Range Organics (GRO)	669.0	mg/Kg	100	134	69.5	120			S
Method: EPA Method 8280B: VOLATILES									
Sample ID: 0804138-32A MSD	MSD		Batch ID: 15642		Analysis Date: 4/21/2008 12:01:13 PM				
Benzene	6.620	mg/Kg	0.50	64.4	66.9	142	14.9	20	S
Toluene	14.54	mg/Kg	0.50	133	78.4	128	15.0	20	S
Chlorobenzene	2.917	mg/Kg	0.50	29.2	78.2	127	21.2	20	SR
1,1-Dichloroethene	4.283	mg/Kg	0.50	42.8	72.6	150	29.8	20	SR
Trichloroethene (TCE)	2.718	mg/Kg	0.50	27.2	72.2	120	33.8	20	SR
Sample ID: 0804138-32A MS	MS		Batch ID: 15642		Analysis Date: 4/21/2008 11:25:48 AM				
Benzene	5.700	mg/Kg	0.50	55.2	66.9	142			S
Toluene	12.52	mg/Kg	0.50	113	78.4	128			
Chlorobenzene	2.358	mg/Kg	0.50	23.6	78.2	127			S
1,1-Dichloroethene	3.172	mg/Kg	0.50	31.7	72.6	150			S
Trichloroethene (TCE)	1.932	mg/Kg	0.50	19.3	72.2	120			S

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Evaporation Pond/Aeration Lagoon

Work Order: 0804138

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

Sample ID: 0804138-01B

MSD

Batch ID: 15669

Analysis Date:

4/17/2008

Acenaphthene	37.35	mg/Kg	0.10	149	24	125	20.5	30	S
4-Chloro-3-methylphenol	42.35	mg/Kg	0.10	84.8	14.6	154	18.7	30	
2-Chlorophenol	37.45	mg/Kg	0.10	75.0	13.3	149	9.36	30	
1,4-Dichlorobenzene	20.20	mg/Kg	0.10	80.6	23.6	118	5.08	30	
2,4-Dinitrotoluene	ND	mg/Kg	0.10	0	28	136	0	30	S
N-Nitrosodi-n-propylamine	ND	mg/Kg	0.10	0	28	114	0	30	S
4-Nitrophenol	ND	mg/Kg	0.10	0	13.1	150	0	0	S
Pentachlorophenol	ND	mg/Kg	0.33	0	20.1	139	0	30	S
Phenol	42.30	mg/Kg	0.10	72.5	17.3	141	7.48	30	
Pyrene	58.90	mg/Kg	0.10	142	29	131	6.30	30	S
1,2,4-Trichlorobenzene	18.25	mg/Kg	0.10	72.9	17.9	126	1.90	30	

Sample ID: 0804138-32Bmsd

MSD

Batch ID: 15682

Analysis Date:

4/20/2008

Acenaphthene	ND	mg/Kg	15	51.6	24	126	0	30	
4-Chloro-3-methylphenol	37.65	mg/Kg	15	75.4	14.6	154	9.17	30	
2-Chlorophenol	33.65	mg/Kg	15	67.4	13.3	149	3.48	30	
1,4-Dichlorobenzene	19.25	mg/Kg	15	76.8	23.6	118	6.43	30	
2,4-Dinitrotoluene	ND	mg/Kg	15	0	28	136	0	30	S
N-Nitrosodi-n-propylamine	ND	mg/Kg	15	0	28	114	0	30	S
4-Nitrophenol	ND	mg/Kg	15	0	13.1	150	0	0	S
Pentachlorophenol	ND	mg/Kg	50	0	20.1	139	0	30	S
Phenol	40.45	mg/Kg	15	65.3	17.3	141	0.739	30	
Pyrene	42.45	mg/Kg	15	-17.4	29	131	51.3	30	SR
1,2,4-Trichlorobenzene	17.55	mg/Kg	15	70.1	17.9	126	0.284	30	

Sample ID: 0804138-01B

MS

Batch ID: 15669

Analysis Date:

4/17/2008

Acenaphthene	30.40	mg/Kg	0.10	121	24	125			
4-Chloro-3-methylphenol	35.10	mg/Kg	0.10	70.3	14.6	154			
2-Chlorophenol	34.10	mg/Kg	0.10	68.3	13.3	149			
1,4-Dichlorobenzene	19.20	mg/Kg	0.10	76.6	23.6	118			
2,4-Dinitrotoluene	ND	mg/Kg	0.10	0	28	136			S
N-Nitrosodi-n-propylamine	ND	mg/Kg	0.10	0	28	114			S
4-Nitrophenol	ND	mg/Kg	0.10	0	13.1	150			S
Pentachlorophenol	ND	mg/Kg	0.33	0	20.1	139			S
Phenol	39.25	mg/Kg	0.10	66.4	17.3	141			
Pyrene	55.30	mg/Kg	0.10	127	29	131			
1,2,4-Trichlorobenzene	18.60	mg/Kg	0.10	74.3	17.9	126			

Sample ID: 0804138-32Bms

MS

Batch ID: 15682

Analysis Date:

4/20/2008

Acenaphthene	32.40	mg/Kg	15	129	24	125			S
4-Chloro-3-methylphenol	34.35	mg/Kg	15	68.8	14.6	154			
2-Chlorophenol	32.50	mg/Kg	15	65.1	13.3	149			
1,4-Dichlorobenzene	18.05	mg/Kg	15	72.1	23.6	118			
2,4-Dinitrotoluene	ND	mg/Kg	15	0	28	136			S
N-Nitrosodi-n-propylamine	ND	mg/Kg	15	0	28	114			S
4-Nitrophenol	ND	mg/Kg	15	0	13.1	150			S

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Evaporation Pond/Aeration Lagoon

Work Order: 0804138

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles Sample ID: 0804138-32Bms									
		MS			Batch ID: 15682		Analysis Date: 4/20/2008		
Pentachlorophenol	ND	mg/Kg	50	0	20.1	139			S
Phenol	40.75	mg/Kg	15	65.9	17.3	141			
Pyrene	71.75	mg/Kg	15	99.6	29	131			
1,2,4-Trichlorobenzene	17.60	mg/Kg	15	70.3	17.9	126			
Method: EPA Method 7471: Mercury Sample ID: 0804138-32BMSD X									
		MSD			Batch ID: 15767		Analysis Date: 4/28/2008 3:51:41 PM		
Mercury	8.503	mg/Kg	1.6	-253	75	125	4.10	20	S
Sample ID: 0804138-32BMS X60									
		MS			Batch ID: 15767		Analysis Date: 4/28/2008 3:45:08 PM		
Mercury	8.162	mg/Kg	1.6	-462	75	125			S
Method: EPA Method 6010B: Soil Metals Sample ID: 0804138-32BMSD									
		MSD			Batch ID: 15708		Analysis Date: 4/23/2008 9:09:58 AM		
Arsenic	31.49	mg/Kg	2.5	93.1	75	125	5.64	30	
Cadmium	23.47	mg/Kg	0.10	93.0	75	125	0.505	30	
Chromium	34.79	mg/Kg	0.30	85.4	75	125	0.167	30	
Selenium	22.76	mg/Kg	2.5	91.8	75	125	3.07	30	
Sample ID: 0804138-32BMS									
		MS			Batch ID: 15708		Analysis Date: 4/23/2008 9:07:19 AM		
Arsenic	33.32	mg/Kg	2.5	102	75	125			
Cadmium	23.59	mg/Kg	0.10	95.0	75	125			
Chromium	34.73	mg/Kg	0.30	86.5	75	125			
Selenium	23.47	mg/Kg	2.5	96.3	75	125			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

APPENDIX D

DATA VALIDATIONS



Tier II Data Validation Report Summary

Client: Western Refining Southwest, Gallup	Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Project Name: Evaporation Pond/Aeration Lagoon	Sample Matrix: Soil
Project Number: 072-697-016	Sample Start Date: April 8, 2008
Date Validated: May 21, 2008	Sample End Date: April 11, 2008
Parameters Included: TPH Method 8015B for Gasoline and Diesel, VOCs by 8260B, SVOCs by 8270C, and RCRA Metals by 6010B	
Laboratory Project IDs: 0804138	
Data Validator's Name: Christina Hiegel, Civil Engineer	

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 evaluating samples from Western Refining Southwest, Gallup, New Mexico.

Precision, accuracy, method compliance, and completeness of this data package were assessed during this data review. Precision was determined by evaluating the calculated RPD values of samples from field duplicates pairs and laboratory duplicates pairs. Laboratory accuracy was established by reviewing the demonstrated laboratory control samples (LCS) and matrix spike recoveries (MS/MSD) to verify that none of the data were biased. Additionally, field accuracy was established by collecting field and trip 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 laboratory control samples 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, laboratory analytical methods, and any other necessary documents associated with this analytical data set.

Data were evaluated in general accordance with validation criteria set forth in the USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review, document number USEPA-540-R-07-003, July 2007 with additional reference to USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review, document number EPA 540/R-99-008 of October 1999 and the USEPA CLP National Functional Guidelines for Inorganic Data Review, document number EPA 540R-04-004, October 2004. Review of duplicates is conducted in accordance with USEPA Region 1 Laboratory Data Validation Function Guidelines for Evaluation of Organic Analysis, December 1996.

SAMPLE NUMBERS TABLE

Client Sample ID	Laboratory Sample Number
EP1-3	0804138-01
EP1-4	0804138-02
EP1-5	0804138-03
AL1-1-HP	0804138-04
AL1-2-HP	0804138-05
AL1-3-HP	0804138-06
AL1-4-HP	0804138-07
AL1-5-HP	0804138-08
AL1-1-SS	0804138-09
AL1-2-SS	0804138-10
AL1-3-SS	0804138-11
AL1-4-SS	0804138-12
AL1-5-SS	0804138-13
EP1-6	0804138-14
EP1-7	0804138-15
EP1-8	0804138-16
BD-2	0804138-19





Tier II Data Validation Report Summary

Client Sample ID	Laboratory Sample Number
BD-1	0804138-20
EB040808	0804138-21
EB040908	0804138-22
EB041008	0804138-23
Trip Blank	0804138-24
AL2-1-HP	0804138-25
AL2-2-HP	0804138-26
AL2-3-HP	0804138-27
AL2-4-HP	0804138-28
AL2-5-HP	0804138-29
AL2-1-SS	0804138-30
AL2-2-SS	0804138-31
AL2-3-SS	0804138-32
AL2-4-SS	0804138-33
AL2-5-SS	0804138-34
EP1-1	0804138-35
EP1-2	0804138-36



Tier II Data Validation Report

The samples were analyzed for client-specified analytes. Chain-of-Custody (COC) completeness is included in Section #2. 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 data were deemed acceptable. A preceding crossed circle (⊗) signifies problems with the referenced data that may have warranted attaching qualifiers to the data.

- ✓ Data Completeness
- ✓ COC Documentation
- ✓ Holding Times and Preservation
- ✓ Laboratory Blanks
- ✓ Laboratory Control Samples (LCS/LCSD)
- ⊗ System Monitoring Compounds (Surrogates)
- ⊗ Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- ⊗ Field Duplicates
- ✓ Laboratory Duplicate
- ✓ Field 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 #9.

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 a "J" or "UJ" qualifier, 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 any site evaluation purposes.

Data Completeness

The analyses appeared to be performed as requested on the chain-of-custody records. The associated samples were received by the laboratory and appeared to be analyzed properly. No data points were rejected. Completeness of the data are calculated to be 100%

Validation Criteria Checklist	
Data validation qualifiers applied to data as a result of this review: J – Estimated value; UJ – Estimated reporting limit; JB – Estimated value due to blank detection.	
1. Did the laboratory identify any non-conformances related to the analytical data?	Yes
Comments: The laboratory noted that for Method 8015B, the "S" flag denotes that the surrogate was not recoverable due to sample dilution and/or matrix interferences. The laboratory noted that for Method 8270B, the "S" flag denotes that the surrogate was low or not recoverable due to sample dilution and or matrix interferences. For the MS/MSD by method 8015B, 8021B, and 8270B, the "S" flags denote that the recovery of spiked compounds were poor due to dilution and matrix interferences. Several of the 8270B phenols were not recoverable due to high concentrations of petroleum hydrocarbons. For Mercury by Method 7471, mercury was not recovered due to the high level of mercury in the sample. The amount that was spiked into the sample was diluted out by the 50 times dilution.	
2. Were sample chain-of-custody (COC) forms complete?	Yes
Comments: The COC forms, from field to laboratory, were complete, and custody was maintained as evidenced by field and laboratory personnel signatures, dates, and times of receipt. The Tier 1 validator indicated that analyses were correct.	
3. Were detection limits in accordance with the QAPP, permit, or method, or indicated as acceptable by the Tier 1 validator?	Yes
Comments: Several dilutions were required by the laboratory. Samples appeared to be diluted acceptably and no data will be qualified as a result of this review. Final useability of data with regards to dilutions will be determined by the project manager.	
4. Were the requested analytical methods in compliance with the QAPP, permit, or COC?	Yes
Comments: Analytical methods appeared to be acceptable and were verified during the Tier 1 validation.	
5. Were samples received in good condition within method specified requirements?	Yes
Comments: Samples were received on ice, intact, and in good condition with a cooler temperature within the 4°C +/- 2°C acceptance range at 3°C.	
6. Were samples analyzed within method specified or technical holding times?	Yes
Comments: Method specified holding times were met for the analyses reported.	
7. Were reported units appropriate for the associated sample matrix/matrices and method(s) of analyses?	Yes
Comments: Sample results were reported in units of mg/kg, which are acceptable units for the soil matrix.	
8. Do the laboratory reports include all constituents requested to be reported as indicated by the Tier 1 validator?	Yes
Comments: Reported constituents were in accordance with those requested and are acceptable according to the Tier 1 validator.	
9. Were data qualification flags used by the laboratory?	Yes
Comments: Data were qualified with the laboratory using an S or and SR. The S flag indicates that the spike recovery was outside accepted recovery limits. The R flag indicates that the RPD was outside of acceptable recovery limits.	
10. Was there indication from the laboratory that the initial or continuous 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 method blank samples prepared equal to at least 5% of the total number of samples, or analyzed as required by the method?	Yes
Comments: One method blank was analyzed for each batch.	
12. Were method blank detections reported for this data set?	No
Comments: No method blank detections were reported with this data set.	

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: Enviro-Drill, Inc.

Drilling Rig: CME 75

Drilling Method: Hollow-Stem Auger

Sampling Method: Split Spoon

Comments: N 35°29.498' W 108°25.827'; Set temporary screen 16-21' bgl and sanded on 10/3/2012

Total Depth: 24' bgl

Ground Water: Saturated at 10' bgl

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-4

Start Date: 10/3/2012 1115

Finish Date: 10/3/2012 1530

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
23	23-24'	1400	G/2S 2M/3J		5.6 79°F 5.2 79°F		90	Clay (CH) Similar to above, very stiff Petrified Forest Formation - Mudstone Dry, reddish brown to gray, weathered, no odor Total Depth = 24' BGL	23
25									25
27									27
29									29
31									31
33									33
35									35
37									37
39									39
41									41
43									43

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: Enviro-Drill, Inc.

Drilling Rig: CME 75

Drilling Method: Hollow-Stem Auger

Sampling Method: Split Spoon

Comments: N 35°29.525' W 108°25.824'

Total Depth: 28' bgl

Ground Water: Saturated at 25' bgl

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-5

Start Date: 10/3/2012 1530

Finish Date: 10/3/2012 1830

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0								Ground Surface	0
2					6.8 75°F		60	Fill (Silty Clay) Low plasticity, stiff, dry to damp, no odor	2
4					8.1 75°F		60	Silty Clay (CL) Similar to above, no odor	4
6					8.4 75°F		60	Silty Clay (CL) Similar to above, no odor	6
8					2.5 75°F		90	Silty Clay (CL) Low plasticity, firm to soft, reddish brown, damp, no odor	8
10					3.8 75°F		90	Silty Clay (CL) Similar to above, no odor	10
12	10-12'	1730	G/2S 2M/3J		9.8 74°F		60	Clayey Sand (SC) Fine grain, loose to compact, damp, brown, sandstone gravel present, no odor	12
14					8.2 74°F		40	Silty Clay/Clay (CL) Moderate to low plasticity, soft, damp, reddish brown, no odor, trace gravel	14
16	14-16'	1745	G/2S 2M/3J		11.0 74°F		60	Sandy Clay/Clayey Sand (SC/CL) Fine grain, loose to compact, damp, reddish brown/brown, calcareous gravel present	16
18	16-18'	1800	G/2S 2M/3J		16.1 76°F		90	Gravelly Clay (CL) Low plasticity, soft/crumbly, damp, reddish brown, no odor	18
20					12.8 76°F		90	Gravelly Clay (CL) Similar to above, slightly more plastic, no odor	20
22					5.7 75°F		90	Gravelly Clay (CL) Similar to above	22

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: Enviro-Drill, Inc.

Drilling Rig: CME 75

Drilling Method: Hollow-Stem Auger

Sampling Method: Split Spoon

Comments: N 35°29.525' W 108°25.824'

Total Depth: 28' bgl

Ground Water: Saturated at 25' bgl

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-5

Start Date: 10/3/2012 1530

Finish Date: 10/3/2012 1830

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
24	24-25'	1810	G/2S 2M/2J	25' bgl	5.5 76°F		95	Gravelly Clay (CL) Moderate plasticity, firm, damp, reddish brown, no odor, calcareous, sandstone gravel present, stiff at base	24
26	26-27'	1820	G/2S 2M/1J		10.9 75°F		50	Gravelly Clay (CL) Similar to above, moist at 25' bgl, no recovery from 25-26' bgl	26
28	27-28'	1830	G/2S 2M/3J		3.0 75°F		70	Clayey Sand (SC) Fine grain, loose, saturated, reddish brown, no odor	28
28	EB100312	1844			4.1 75°F			Petrified Forest Formation (Mudstone) Very dense, dry, gray, weathered	28
30								Total Depth = 28' BGL	30
32									32
34									34
36									36
38									38
40									40
42									42
44									44

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: Enviro-Drill, Inc.

Drilling Rig: CME 75

Drilling Method: Hollow-Stem Auger

Sampling Method: Split Spoon

Comments: N 35°29.523' W 108°25.802'; Set temporary well 7-12' bgl

Total Depth: 12' bgl

Ground Water: Saturated at 4' bgl

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-6

Start Date: 10/4/2012 0950

Finish Date: 10/4/2012 1155

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0								Ground Surface	0
2	2-4' & Dup	1055	G/4S 4M/2J	4' bgl	10.5 70°F		90	Fill (Silty Clay/Gravel) Dry to damp, brown, no odor	2
4	4-6'	1115	G/2S 2M/2J		37.5 70°F		90	Fill (Silty Clay) Similar to above, damp	4
6					15.9 70°F		60	Clayey Sand (SC) Medium grained, loose, saturated, reddish brown, no odor	6
8	7.5-8'	1130	G/2S 2M/2J	9' bgl	5.8 70°F		60	Clayey Sand (SC) Similar to above, saturated	8
10	10-11'	1145	G/2S 2M/2J		4.9 70°F		90	Silty Clay (CL) Moderate plasticity, soft, damp to moist, reddish brown, no odor	10
12	11-12'	1155	G/2S 2M/3J		7.8 70°F		60	Silty Clay (CL/SC) Similar to above, moist to very moist, grades to saturated clayey sand, no odor	12
					9.6 70°F		90	Clayey Sand (SC) Medium plasticity, loose, saturated, reddish brown, no odor	
					0.8 70°F			Petrified Forest Formation (Mudstone) Very dense, dry, reddish brown and gray, no odor, weathered	
								Total Depth = 12' BGL	

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: Enviro-Drill, Inc.

Drilling Rig: CME 75

Drilling Method: Hollow-Stem Auger

Sampling Method: Split Spoon

Comments: N 35°29.501' W 108°25.776'

Total Depth: 18' bgl

Ground Water: Saturated @ 14' bgl

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-7

Start Date: 10/4/2012 1235

Finish Date: 10/4/2012 1440

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0								Ground Surface	0
2					7.6 72°F		70	Fill (Silty Clay (CL)) Low plasticity, firm, dry to damp, brown, no odor	2
4					4.8 72°F		70	Silty Clay (CL) Similar to above, no odor, trace gravel	4
6					5.1 72°F		70	Silty Clay (CL) Similar to above	6
8					4.0 72°F		50	Silty Clay (CL) Low plasticity, soft, damp, reddish brown, no odor, trace gravel	8
10					1.7 72°F		40	Silty Clay (CL) Similar to above, no odor	10
12					0.5 73°F		60	Silty Clay (CL) Similar to above, no odor	12
14	12-14'	1355	G/2S 2M/3J	14' bgl	0.4 73°F		90	Clay (CH) High plasticity, firm to soft, damp, reddish brown, no odor, dark brown organic matter in fractures/fissures	14
16	14-16'	1415	G/2S 2M/3J		5.9 73°F		70	Clay (CH) Similar to above, clayey sand seams present, saturated, no odor, very dense clay at base	16
18	16-18'	1440	G/2S 2M/3J		2.8 73°F		60	Petrified Forest Formation - Clay/Mudstone Very dense, dry, reddish brown to gray, no odor	18
20								Total Depth = 18' BGL	20
22									22

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: Enviro-Drill, Inc.

Drilling Rig: CME 75

Drilling Method: Hollow-Stem Auger

Sampling Method: Split Spoon

Comments: N 35°29.466' W 108°25.768'; Reamed to 18' bgl, Collected full suite (SWMU 1-8 GW)

Total Depth: 20' bgl

Ground Water: Saturated @ 12' bgl

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-8

Start Date: 10/5/2012 0815

Finish Date: 10/5/2012 1200

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0								Ground Surface	0
2					26.5 65°F		60	Fill (Silty Clay) Low plasticity, stiff, dry, brown, gravelly, no odor	2
4					9.9 65°F		60	Fill (Silty Clay) Similar to above, no odor	4
6	4-6'	1020	G/2S 2M/3J		13.5 65°F		80	Clayey Sand (SC) Medium grain, compact, moist to saturated, brown, odor	6
8					8.8 65°F		80	Silty Clay (CL) Low plasticity, firm, damp, brown, no odor	8
10					10.0 65°F		20	Silty Clay (CL) Similar to above	10
12	10-12'	1030	G/2S 2M/1J		15.8 69°F		10	Silty Clay (CL) Similar to above	12
14	12-14'	1040	G/2S 2M/3J		161 69°F		40	Silty Clay/Clayey Sand (CL/SC) Low plasticity, very soft, moist to saturated, brown, hydrocarbon odor, gravelly, loose	14
16					9.9 69°F		60	Clayey Sand (SC) Medium grain, compact, damp to moist to saturated, brown, odor	16
18	16-18' & Dup	1110	G/4S 4M/6J		8.3 69°F		90	Clayey Sand/Sandy Clay (SC) Similar to above, moist to saturated, brown, odor	18
20	19-20'	1125	G/2S 2M/3J		14.0 69°F		90	Clayey Sand (SC) Similar to above	20
22	SWMU 1-8 GW	1605			10.5 69°F			Petrified Forest Formation (Mudstone) Very dense, dry to damp, reddish brown/gray, no odor	20
								Total Depth = 20' BGL	

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N 35°29.464' W 108°25.768'

Total Depth: 2' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-9

Start Date: 10/15/2012 1030

Finish Date: 10/15/2012 1105

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1055	G/2S 2M/3J		3.2 63°F		100	Ground Surface	0
							100	Fill (Silty Clay/Gravel (CL)) Very dense, compact, dry, brown, no odor	
	1.5-2'	1105	G/2S 2M/3J		7.0 63°F		100	Fill (Silty Sand (SM)) Fine to medium grain, damp, brown, no odor	
2							100	Silty Clay (CL) Low plasticity, soft, damp, brown, no odor	2
								Total Depth = 2' BGL	
4									4
6									6
8									8
10									10
12									12

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N 35°29.456' W 108°25.766'

Total Depth: 2' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-10

Start Date: 10/15/2012 1110

Finish Date: 10/15/2012 1130

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1120	G/2S 2M/3J		10.1 68°F		100	Ground Surface	0
								Fill (Silty Clay/ Gravel (CL)) Very dense, compact, dry, brown, no odor	
2	1.5-2'	1130	G/2S 2M/3J		6.1 68°F		100	Fill (Silty Sand (SM)) Fine to medium grain, damp, brown, no odor, gravelly	2
								Total Depth = 2' BGL	
4									4
6									6
8									8
10									10
12									12

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N 35°29.449' W 108°25.773'

Total Depth: 2' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-11

Start Date: 10/15/2012 1140

Finish Date: 10/15/2012 1220

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1205	G/2S 2M/3J		38.9 71 °F		100	Ground Surface	0
2	1.5-2'	1220	G/2S 2M/3J		3.7 71 °F			Fill (Silty Clay/Gravel (CL)) Very dense, compact, dry to damp, brown, no odor	2
Total Depth = 2' BGL									

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N 35°29.446' W 108°25.782'

Total Depth: 1' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-12

Start Date: 10/15/2012 1330

Finish Date: 10/15/2012 1500

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0								Ground Surface	0
0-0.5'	1445	G/2S 2M/3J			63 74°F		100	Fill (Silty Clay/Gravel (CL)) Very dense, compact, dry to damp, brown, no odor, refusal at 1' bgl in gravel	
0.5-1'	1500	G/2S 2M/3J			4.4 74°F				
								Total Depth = 1' BGL	
2									2
4									4
6									6
8									8
10									10
12									12

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: Enviro-Drill, Inc.

Drilling Rig: CME 75

Drilling Method: Hollow-Stem Auger

Sampling Method: Split Spoon

Comments: N 35°29.444' W 108°25.792'

Total Depth: 6' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-13

Start Date: 10/12/2012 1335

Finish Date: 10/12/2012 1500

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1405	G/2S 2M/3J					Ground Surface	0
2	1.5-2'	1425	G/2S 2M/3J		3.1 70°F		80	Fill (Silty Clay (CL)) Low plasticity, stiff, dry to damp, brown, gravelly, no odor	2
4	2-4'	1435	G/2S 2M/3J		35.7 70°F		90	Fill (Silty Clay (CL)) Similar to above, no odor	4
6	4-6' & Dup	1500	G/4S 4M/4J		15.6 70°F		90	Fill (Silty Clay (CL)) Similar to above, reddish brown, no odor	6
8								Total Depth = 6' BGL	8
10	EB101212	1620							10
12									12
14									14
16									16
18									18
20									20
22									22

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N 35°29.444' W 108°25.802'

Total Depth: 2' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-14

Start Date: 10/15/2012 1505

Finish Date: 10/15/2012 1555

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1530	G/2S 2M/3J		5.7 72°F		100	Ground Surface	0
2	1.5-2' & Dup	1555	G/4S 4M/6J		4.7 72°F		100	Fill (Silty Clay/Gravel (CL)) Firm, dry to damp, brown, no odor	2
								Fill (Clay (CH)) High plasticity, firm, damp, brown, no odor	
								Total Depth = 2' BGL	

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N 35°29.445' W 108°25.811'

Total Depth: 2' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-15

Start Date: 10/15/2012 1600

Finish Date: 10/15/2012 1630

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1620	G/2S 2M/3J		5.7 70°F		100	Ground Surface Fill (Silt/Silty Clay (ML/CL)) Firm, dry to damp, brown, no odor	0
2	1.5-2'	1630	G/2S 2M/3J		9.3 70°F		100	Fill (Clay (CH)) High plasticity, firm, damp, brown, no odor	2
Total Depth = 2' BGL									

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N 35°29.449' W 108°25.824'

Total Depth: 2' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-16

Start Date: 10/15/2012 1635

Finish Date: 10/15/2012 1705

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1655	G/2S 2M/3J		7.7 69°F		100	Ground Surface	0
								Fill (Silt/Gravel (ML)) Fine grain, loose, brown, dry, no odor	
2	1.5-2'	1705	G/2S 2M/3J		5.7 69°F		100	Fill (Silty Clay/Gravel (CL)) Moderate to high plasticity, firm, damp, reddish brown, no odor	2
								Total Depth = 2' BGL	
4									4
6									6
8									8
10									10
12									12

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N 35°29.458' W 108°25.827'

Total Depth: 1.5' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-17

Start Date: 10/15/2012 1710

Finish Date: 10/15/2012 1740

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1730	G/2S 2M/3J		9.5 67°F		100	Ground Surface	0
1	1-1.5'	1740	G/2S 2M/3J		6.7 67°F		100	Fill (Silt/Gravel (ML)) Fine grain, loose, dry, brown, no odor Fill (Silty Clay (CL)) Low to moderate plasticity, firm, damp, brown, no odor, refusal at 1.5' bgl in gravel	2
2								Total Depth = 1.5' BGL	
4									
6									
8									
10									
12									
14									

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N 35°29.460' W 108°25.829'

Total Depth: 1.5' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-18

Start Date: 10/16/2012 0940

Finish Date: 10/16/2012 1010

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1000	G/2S 2M/3J		8.2 61°F		100	Ground Surface	0
1	1-1.5'	1010	G/2S 2M/3J		5.2 61°F		100	Fill (Silt/Gravel (ML)) Fine grain, dry, brown, no odor Fill (Silty Clay (CL)) Low to moderate plasticity, firm, damp, brown, no odor, refusal at 1.5' bgl	2
2								Total Depth = 1.5' BGL	2
4									4
6									6
8									8
10									10
12									12
14									14

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N 35°29.473' W 108°25.835'

Total Depth: 0.5' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-19

Start Date: 10/16/2012 1015

Finish Date: 10/16/2012 1035

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1035	G/2S 2M/3J		4.1 65°F		100	Ground Surface Fill (Silt (ML)) Fine grain, loose, dry, brown, no odor, gravel at base, refusal at 0.5' bgl Total Depth = 0.5' BGL	0
2									2
4									4
6									6
8									8
10									10
12									12

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: Enviro-Drill, Inc.

Drilling Rig: CME 75

Drilling Method: Hollow-Stem Auger

Sampling Method: Split Spoon

Comments: N 35°29.479' W 108°25.842'

Total Depth: 12' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-20

Start Date: 10/11/2012 1110

Finish Date: 10/11/2012 1300

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5' & Dup	1220	G/4S 4M/6J		21.7 74 °F		60	Ground Surface Silt/Silty Clay (ML/CL) Low plasticity, loose to compact, dry, light brown, no odor	0
2	1.5-2'	1230	G/2S 2M/2J		4.6 74 °F		60	Silty Clay (CL) Low plasticity, very stiff, dry, brown, no odor	2
4	4-6'	1245	G/2S 2M/3J		2.5 74 °F		60	Silty Clay (CL) Similar to above, no odor	4
6					2.8 74 °F		70	Silty Clay (CL) Similar to above, no odor	6
8					3.9 74 °F		70	Silty Clay (CL) Similar to above, no odor, very dense at base, dry	8
10	10-12'	1300	G/2S 2M/3J		1.5 74 °F		50	Petrified Forest Formation - Mudstone Very dense, dry/damp, reddish brown, no odor	10
12								Total Depth = 12' BGL	12
14									14
16									16
18									18
20									20
22									22

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N 35°29.486' W 108°25.840'

Total Depth: 0.5' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-21

Start Date: 10/16/2012 1040

Finish Date: 10/16/2012 1105

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5' & Dup	1105	G/4S 4M/6J		14 65°F		100	Ground Surface Silt (ML) Fine grain, loose, dry, brown, no odor, gravel at base, refusal at 0.5' bgl Total Depth = 0.5' BGL	0
2									2
4									4
6									6
8									8
10									10
12									12
14									14

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N 35°29.494' W 108°25.843'

Total Depth: 2' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-22

Start Date: 10/16/2012 1110

Finish Date: 10/16/2012 1145

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1135	G/2S 2M/3J		4.9 65°F		100	Ground Surface	0
2	1.5-2'	1145	G/2S 2M/3J		6.8 65°F		100	Fill (Silt) Low plasticity, fine grain, loose, dry, brown, no odor Silty Clay (CL) Low plasticity, firm, dry to damp, brown, no odor	2
4								Total Depth = 2' BGL	4
6									6
8									8
10									10
12									12

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N 35°29.507' W 108°25.840'

Total Depth: 0.5' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-23

Start Date: 10/16/2012 1150

Finish Date: 10/16/2012 1210

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1210	G/2S 2M/3J		3.7 75°F		100	Ground Surface Silt/Gravel (ML) Very fine grain, loose, dry, brown, no odor, refusal at 0.5' bgl in gravel Total Depth = 0.5' BGL	0
2									2
4									4
6									6
8									8
10									10
12									12
14									14

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: Enviro-Drill, Inc.

Drilling Rig: CME 75

Drilling Method: Hollow-Stem Auger

Sampling Method: Split Spoon

Comments: N 35°29.514' W 108°25.827'

Total Depth: 34' bgl

Ground Water: Saturated at 24' bgl

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-24

Start Date: 10/8/2012 1300

Finish Date: 10/8/2012 1705

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5' & Dup	1605	G/4S 4M/6J		4.6 76 °F			Ground Surface	0
2	1.5-2'	1615	G/2S 2M/3J		6.4 76 °F		60	Silty Clay (CL) Low plasticity, stiff, dry, brown, gravelly, no odor	2
4							60	Silty Clay (CL) Similar to above, firm, no odor	4
6					14.4 76 °F		80	Silty Clay (CL) Low plasticity, soft, damp, reddish brown, faint odor	6
8					22.9 76 °F		60	Silty Clay (CL) Similar to above, no odor	8
10					13.3 71 °F		80	Silty Clay (CL) Similar to above, trace gravel, no odor	10
12	10.5-11.5'	1630	G/2S 2M/3J		15.7 71 °F		90	Silty Clay (CL) Similar to above	12
14					11.7 71 °F		60	Clayey Sand (SC) Medium grain, compact, damp, brown, no odor, gravelly	14
16					17.8 71 °F		90	Silty Clay (CL) Low plasticity, soft, damp, reddish brown, no odor	16
18	16-18'	1640	G/2S 2M/3J		28 69 °F		90	Silty Clay (CL) Similar to above	18
20					27 69 °F		90	Sandy Clay/Clayey Sand (CL/SC) Very fine grain, soft, moist, brown, no odor	20
22					27.1 69 °F		90	Sandy Clay (SC) Similar to above, moist, odor	22
								Clayey Silt (ML) Low plasticity, very fine, moist, odor, black discoloration in brown	

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: Enviro-Drill, Inc.

Drilling Rig: CME 75

Drilling Method: Hollow-Stem Auger

Sampling Method: Split Spoon

Comments: N 35°29.514' W 108°25.827'

Total Depth: 34' bgl

Ground Water: Saturated at 24' bgl

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-24

Start Date: 10/8/2012 1300

Finish Date: 10/8/2012 1705

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
24	24-26'	1655	G/2S 2M/3J	24' bgl	17.7 69°F		90	Clayey Silt (ML) Similar to above, odor and black discoloration more abundant than above	24
26					19.5 68°F		90	Clayey Silt/Sand (ML/SC) Very fine grain, compact, soft, moist to saturated, odor, black	26
28					22.8 68°F		80	Clayey Silt/Sand (ML/SC) Similar to above, very moist, stiff and gravelly at base	28
30					16.7 68°F		40	Clayey Silt (ML) Low plasticity, very soft, moist, black, odor	30
32	32-34'	1705	G/2S 2M/3J		13.2 68°F		90	Clayey Sand/Gravel (SC) Medium grain, compact, very dense, moist to damp, black, odor	32
34					10.9 68°F		90	Clayey Sand/Gravel (SC) Very dense, damp to dry, black	34
36								Total Depth = 34' BGL	36
38									38
40									40
42									42
44									44

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N 35°29.521' W 108°25.826'

Total Depth: 1' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-25

Start Date: 10/16/2012 1240

Finish Date: 10/16/2012 1315

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0								Ground Surface	0
0-0.5'	1300	G/2S 2M/3J			4.1 77°F		100	Fill (Sand/Gravel (SP)) Fine grain, loose, dry, brown, no odor Fill (Sand/Gravel (SP)) Similar to above, damp, no odor, refusal in gravel at 1' bgl Total Depth = 1' BGL	
0.5-1'	1315	G/2S 2M/3J			4.7 77°F		100		
2									2
4									4
6									6
8									8
10									10
12									12
14									14

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N 35°29.525' W 108°25.817'

Total Depth: 0.5' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-26

Start Date: 10/16/2012 1320

Finish Date: 10/16/2012 1335

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1335	G/2S 2M/3J		6.5 79		100	Ground Surface Fill (Silty Clay and Gravel (CL)) Low plasticity, firm, dry, brown, no odor, refusal at 0.5' bgl in gravel Total Depth = 0.5' BGL	0
2									2
4									4
6									6
8									8
10									10
12									12
14									14

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: Enviro-Drill, Inc.

Drilling Rig: CME 75

Drilling Method: Hollow-Stem Auger

Sampling Method: Split Spoon

Comments: N 35°29.524' W 108°25.808'

Total Depth: 4' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-27

Start Date: 10/12/2012 0825

Finish Date: 10/12/2012 0915

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	0900	G/2S 2M/3J					Ground Surface	0
2	1.5-2'	0915	G/2S 2M/3J		14.5 70 °F		90	Fill (Silty Clay (CL)) Low plasticity, stiff, damp, brown, no odor	2
4					18.2 70 °F		90	Fill (Silty Clay (CL)) Similar to above, no odor	4
6								Total Depth = 4' BGL	6
8									8
10									10
12									12
14									14
16									16
18									18
20									20
22									22

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: Enviro-Drill, Inc.

Drilling Rig: CME 75

Drilling Method: Hollow-Stem Auger

Sampling Method: Split Spoon

Comments: N 35°29.522' W 108°25.797'

Total Depth: 4' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-28

Start Date: 10/12/2012 0920

Finish Date: 10/12/2012 1010

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	0950	G/2S 2M/3J					Ground Surface	0
2	1.5-2' & Dup	1010	G/4S 4M/6J		4.0 76°F		90	Fill (Silty Clay (CL)) Low plasticity, compact to loose, dry to damp, light brown, no odor	2
4					4.8 76°F		90	Clayey Gravelly Sand (SC)) Loose to compact, medium grained sand, light brown, damp, no odor	4
6								Total Depth = 4' BGL	6
8									8
10									10
12									12
14									14
16									16
18									18
20									20
22									22

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N 35°29.522' W 108°25.789'

Total Depth: 0.5' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-29

Start Date: 10/16/2012 1420

Finish Date: 10/16/2012 1440

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1440	G/2S 2M/3J		3.6 72%		100	Ground Surface Fill (Silty Clay and Gravel (CL)) Low plasticity, stiff, dry, brown, no odor, refusal at 0.5' bgl in gravel Total Depth = 0.5' BGL	0
2									2
4									4
6									6
8									8
10									10
12									12
14									14

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: Enviro-Drill, Inc.

Drilling Rig: CME 75

Drilling Method: Hollow-Stem Auger

Sampling Method: Split Spoon

Comments: N 35°29.519' W 108°25.780'

Total Depth: 6' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-30

Start Date: 10/12/2012 1020

Finish Date: 10/12/2012 1210

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1140	G/2S 2M/3J		4.6 70 °F		80	Ground Surface Fill (Silty Clay (CL)) Low plasticity, very stiff, dry to damp, brown, no odor	0
2	1.5-2'	1200	G/2S 2M/3J		6.6 70 °F		90	Fill (Silty Clay (CL)) Similar to above, damp, no odor	2
4	4-6'	1210	G/2S 2M/3J		6.7 70 °F		90	Clayey Sand (SC) Medium grained, loose, damp, brown	4
6								Total Depth = 6' BGL	6
8									8
10									10
12									12
14									14
16									16
18									18
20									20
22									22

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N 35°29.513' W 108°25.778'

Total Depth: 0.5' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-31

Start Date: 10/16/2012 1445

Finish Date: 10/16/2012 1500

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1500	G/2S 2M/3J		3.9 71%		100	Ground Surface Fill (Silty Clay and Gravel (CL)) Low plasticity, stiff, dry, brown, no odor, refusal in gravel at 0.5' bgl Total Depth = 0.5' BGL	0
2									2
4									4
6									6
8									8
10									10
12									12

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N 35°29.506' W 108°25.776'

Total Depth: 0.5' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-32

Start Date: 10/16/2012 1505

Finish Date: 10/16/2012 1540

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5' & Dup	1540	G/4S 4M/6J		0.7 71°F		100	Ground Surface Fill (Silty Clay and Gravel (CL)) Low plasticity, stiff, dry, brown, no odor, refusal in gravel at 0.5' bgl Total Depth = 0.5' BGL	0
2									2
4									4
6									6
8									8
10									10
12									12

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N 35°29.496' W 108°25.775'

Total Depth: 0.5' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-33

Start Date: 10/16/2012 1545

Finish Date: 10/16/2012 1603

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1603	G/2S 2M/3J		3.1 70°F		100	Ground Surface Fill (Silty Clay and Gravel (CL)) Low plasticity, stiff, dry, brown, no odor, refusal in gravel at 0.5' bgl Total Depth = 0.5' BGL	0
2									2
4									4
6									6
8									8
10									10
12									12

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N 35°29.488' W 108°25.773'

Total Depth: 0.5' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-34

Start Date: 10/16/2012 1615

Finish Date: 10/16/2012 1630

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1630	G/2S 2M/3J		3.2 69°F		100	Ground Surface Fill (Silty Clay and Gravel (CL)) Low plasticity, stiff, dry, brown, no odor, refusal in gravel at 0.5' bgl Total Depth = 0.5' BGL	0
2									2
4									4
6									6
8									8
10									10
12									12

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: Enviro-Drill, Inc.

Drilling Rig: CME 75

Drilling Method: Hollow-Stem Auger

Sampling Method: Split Spoon

Comments: N 35°29.480' W 108°25.772'

Total Depth: 6' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-35

Start Date: 10/12/2012 1215

Finish Date: 10/12/2012 1310

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1245	G/2S 2M/3J		0.8 76°F		90	Ground Surface Fill (Silty Clay (CL)) Low plasticity, firm, damp, brown, no odor, gravelly	0
2	1.5-2'	1300	G/2S 2M/3J		4.7 76°F		90	Fill (Silty Clay (CL)) Similar to above	2
4	4-6'	1310	G/2S 2M/3J		1.7 76°F		90	Silty Clay/Clayey Silt (CL/ML) Low plasticity, soft, damp, brown, no odor	4
6								Total Depth = 6' BGL	6
8									8
10									10
12									12
14									14
16									16
18									18
20									20
22									22

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N 35°29.472' W 108°25.770'

Total Depth: 0.5' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-36

Start Date: 10/16/2012 1635

Finish Date: 10/16/2012 1700

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1700	G/2S 2M/3J		1.9 69°F		100	Ground Surface Fill (Silty Clay and Gravel (CL)) Low plasticity, stiff, dry, brown, no odor, refusal at 0.5' bgl in gravel Total Depth = 0.5' BGL	0
2									2
4									4
6									6
8									8
10									10
12									12
14									14

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: Enviro-Drill, Inc.

Drilling Rig: CME 75

Drilling Method: Hollow-Stem Auger

Sampling Method: Split Spoon

Comments: N 35°29.444' W 108°25.816'; Temporary well (10-15' screen, 9-15' sand, 8-9' hole plug)

Total Depth: 18' bgl

Ground Water: Saturated @ 8.5' bgl

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-37

Start Date: 10/10/2012 1515

Finish Date: 10/10/2012 1740

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1700	G/2S 2M/3J					Ground Surface	0
2	1.5-2'	1715	G/2S 2M/2J		4.9 74 °F		40	Silty Clay (CL) Low plasticity, stiff, dry, brown, no odor	2
4					13.6 74 °F		40	Silty Clay (CL) Low plasticity, soft, damp, reddish brown, no odor	4
6					12.8 74 °F		90	Silty Clay (CL) Similar to above, no odor	6
8	8-8.5'	1730	G/2S 2M/3J	8.5' bgl	16.6 74 °F		40	Silty Clay/Clay (CL/CH) Similar to above, becomes a high plastic reddish brown clay, firm, damp, no odor	8
10	8.5-9'	1740	G/2S 2M/2J		8.8 74 °F		90	Clay (CH) High plasticity, firm, damp, reddish brown	10
12	12-13'	1755	G/2S 2M/3J	12' bgl	14.6 73 °F		90	Clayey Sand (SC) Fine grain, compact, moist to saturated, reddish brown	12
14	13-14'	1805	G/2S 2M/3J		14.6 73 °F		90	Clay (CH) High plasticity, firm, damp, reddish brown, no odor	14
16					11.4 73 °F		90	Clay (CH) Similar to above, very stiff	16
18	17-18'	1820	G/2S 2M/3J		12.3 73 °F		90	Clayey Silt/Sand (SC) Very fine grain, loose, brown, saturated, no odor	18
20	EB101012	1845						Clay (CH) High plasticity, very stiff, reddish brown, no odor, damp	20
22								Clay (CH) Similar to above	22
								Petrified Forest Formation - Clay/Mudstone (CH) Similar to above, becomes very dense, dry, trace of gray, no odor	
								Total Depth = 18' BGL	

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: Enviro-Drill, Inc.

Drilling Rig: CME 75

Drilling Method: Hollow-Stem Auger

Sampling Method: Split Spoon

Comments: N 35°29.500' W 108°25.841'

Total Depth: 8' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-38

Start Date: 10/11/2012 1330

Finish Date: 10/11/2012 1445

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1420	G/2S 2M/3J		10.3 75°F		60	Ground Surface	0
2	1.5-2'	1430	G/2S 2M/3J		8.5 75°F		60	Silt/Silty Clay (ML/CL) Low plasticity, soft to very stiff, brown to reddish brown, damp, no odor	2
4					8.2 75°F		20	Silty Clay (CL) Similar to above, gravelly, no odor	4
6	6-8'	1445	G/2S 2M/3J		11.7 75°F		60	Silty Clay (CL) Similar to above, no odor, gravelly	6
8								Petrified Forest Formation - Clay/Mudstone (CH) Very dense, dry, reddish brown and gray, no odor	8
10	EB101112	1545						Total Depth = 8' BGL	10
12									12
14									14
16									16
18									18
20									20
22									22

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 1, Gallup Refinery

Job No.: UEC01693

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N 35°29.515' W 108°25.834'

Total Depth: 0.5' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

E

Boring No.: SWMU 1-39

Start Date: 10/16/2012 1215

Finish Date: 10/16/2012 1235

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1235	G/2S 2M/3J		4.4 80°F		100	Ground Surface Fill (Silt/Gravel (ML)) Low plasticity, very fine grain, loose, dry, brown, no odor, refusal at 0.5' bgl in gravel Total Depth = 0.5' BGL	0
2									2
4									4
6									6
8									8
10									10
12									12

LOG OF BORING

Client: Western Refining Southwest, Inc.
Site: SWMU No. 14 - Gallup Refinery
Job No.: UEC01655
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow-Stem Auger
Sampling Method: Split Spoon
Comments: N35°29.440' W108°25.788'

Total Depth: 50' bgl
Ground Water: Not Encountered
Elev., TOC (ft. msl): --
Elev., PAD (ft. msl): --
Elev., GL (ft. msl): --
Site Coordinates:
N 35°29.440' **W** 108°25.788'

Boring No.: SWMU 14-1
Start Date: 7/16/2012 14:30
Finish Date: 7/18/2012 13:45

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1615	G/2E/ 2M/2J		5.0 85°F			Ground Surface	0
2	1.5-2'	1620	G/2E/ 2M/2J		12.6 85°F		100	Fill (Silt/Clay) Damp to dry, no odor, low plastic clay, brown	2
4					7.2 85°F		100	Silty Clay (CL) Low plasticity, firm, damp, reddish brown, no odor	4
6					13.9 85°F		100	Silty Clay (CL) Moderate plasticity, firm to soft, damp, reddish brown, no odor	6
8					13.2 85°F		100	Silty Clay (CL) Similar to above, no odor	8
10	10-12'	1630	G/2E/ 2M/2J		21.0 85°F		100	Clay (CH) High plasticity, soft, damp, reddish brown, no odor	10
12					105.9 85°F		100	Clay (CH) Similar to above, odor	12
14					12.4 85°F		100	Silty Clay (CL) Moderate plasticity, firm, damp, reddish brown, trace gravel throughout - pebbles, no odor	14
16					10.9 85°F		80	Silty Clay (CL) Similar to above, no odor	16
					10.9 85°F		80	Silty Clay (CL) Low to moderate plasticity, very stiff, damp, reddish brown, no odor, gravel present	

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 14 - Gallup Refinery

Job No.: UEC01655

Geologist: Tracy Payne

Driller: Enviro-Drill, Inc.

Drilling Rig: CME 75

Drilling Method: Hollow-Stem Auger

Sampling Method: Split Spoon

Comments: N35°29.440' W108°25.788'

Total Depth: 50' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N 35°29.440'

W 108°25.788'

Boring No.: SWMU 14-1

Start Date: 7/16/2012 14:30

Finish Date: 7/18/2012 13:45

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
19					14.9 84°F		80	Silty Clay (CL) Low plasticity, firm, damp to dry, reddish brown and gray, crumbly, no odor	19
21					15.8 84°F		80	Silty Clay (CL) Similar to above	21
23					13.0 84°F		90	Silty Clay (CL) Similar to above	23
25					13.7 84°F		50	Silty Clay (CL) Similar to above	25
27					9.5 84°F		90	Silty Clay (CL) Similar to above	27
29					9.6 84°F		90	Silty Clay (CL) Similar to above	29
31					5.0 83°F		80	Silty Clay (CL) Low plasticity, very stiff, damp to dry, reddish brown and gray, no odor	31
33					10.3 83°F		90	Silty Clay (CL) Similar to above, reddish brown, no odor	33
35					9.9 83°F		90	Silty Clay (CL) Similar to above, reddish brown and gray, no odor	35

LOG OF BORING

Client: Western Refining Southwest, Inc.
Site: SWMU No. 14 - Gallup Refinery
Job No.: UEC01655
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow-Stem Auger
Sampling Method: Split Spoon
Comments: N35°29.440' W108°25.788'

Total Depth: 50' bgl
Ground Water: Not Encountered
Elev., TOC (ft. msl): --
Elev., PAD (ft. msl): --
Elev., GL (ft. msl): --
Site Coordinates:
N 35°29.440' **W** 108°25.788'

Boring No.: SWMU 14-1
Start Date: 7/16/2012 14:30
Finish Date: 7/18/2012 13:45

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
37					3.0 83°F		50	Sandstone/Silty Sand (SS) Fine grain, poorly cemented, reddish brown, dry to damp, no odor	37
39					8.2 83°F		90	Silty Clay (CL) Low plasticity, stiff, damp, reddish brown, no odor, gray mottling	39
41					2.1 86°F		90	Clay (CL) Low plasticity, very stiff, dry to damp, reddish brown, no odor	41
43					3.1 86°F		60	Clay (CL) Similar to above	43
45					4.0 86°F		70	Clay (CL) Similar to above, reddish brown and gray	45
47					4.3 86°F		70	Clay (CL) Similar to above	47
49	48-50'	7/18 1345	G/2E/ 2V/2J		3.2 86°F		80	Clay (CL) Similar to above	49
51								Total Depth = 50' BGL	51
53									53

Client: Western Refining Southwest, Inc.

Site: SWMU No. 14 - Gallup Refinery

Job No.: UEC01655

Geologist: Tracy Payne

Driller: Enviro-Drill, Inc.

Drilling Rig: CME 75

Drilling Method: Hollow-Stem Auger

Sampling Method: Split Spoon

Comments: N35°29.442' W108°25.781'; Samples collected 7/19/2012 (SWMU 14-2 GW 1000, FB071712 1800, EB071712 1815)

Total Depth: 26' bgl

Ground Water: Saturated @ 18' bgl

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N 35°29.442'

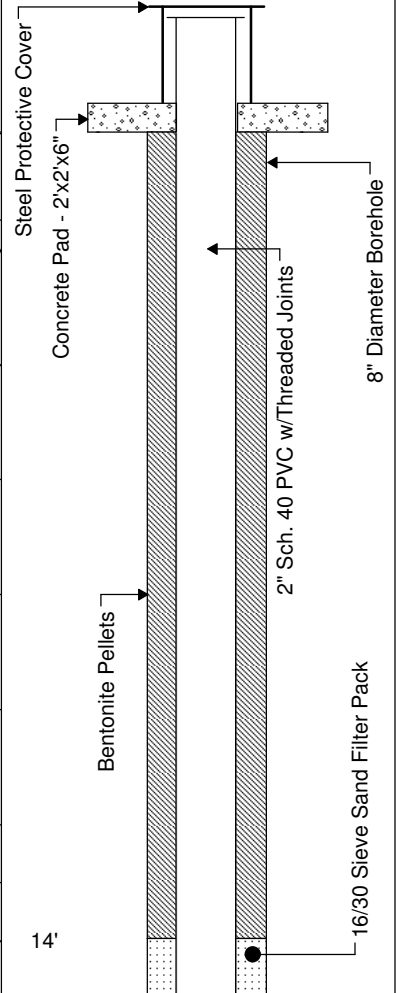
W 108°25.781'

Well No.: OAPIS-1 (SWMU 14-2)

Start Date: 7/17/2012 14:30

Finish Date: 7/17/2012 17:30

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Completion Results
	Sample Depth	Time	Sample Type/Container/No	Saturation	Organic Vapor (ppm)	USCS Class			
-2								Ground Surface	
0	0-0.5'	1610	G/2E/2V/2J		2.9 83°F		100	Fill (Clay/Gravel) Brown, dry to damp, no odor	
2	1.5-2'	1624	G/2E/2V/2J		280 83°F		100	Clay (CH) Moderate plasticity, firm, damp, black and brown, odor	
4					56.8 83°F		90	Silty Clay (CL) Low plasticity, firm, damp, brown grading to black at 4' bgl, faint odor	
6					69.4 83°F		90	Silty Clay (CL) Similar to above, brown and black, trace sand, odor	
8					87.5 83°F		90	Silty Clay (CL) Similar to above, odor	
10	8-10' & Dup	1645	G/4E/4V/4J		330 83°F		90	Silty Clay (CL) Low plasticity, very soft, damp, dark brown and black, odor	
12					294 83°F		80	Silty Clay (CL) Similar to above	
14					14.6 83°F		70	Silty Clay (CL) Similar to above, faint odor	
							70	Clay (CH) Moderate plasticity, stiff, damp, reddish brown, no odor	



Client: Western Refining Southwest, Inc.

Site: SWMU No. 14 - Gallup Refinery

Job No.: UEC01655

Geologist: Tracy Payne

Driller: Enviro-Drill, Inc.

Drilling Rig: CME 75

Drilling Method: Hollow-Stem Auger

Sampling Method: Split Spoon

Comments: N35°29.442' W108°25.781'; Samples collected 7/19/2012 (SWMU 14-2 GW 1000, FB071712 1800, EB071712 1815)

Total Depth: 26' bgl

Ground Water: Saturated @ 18' bgl

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N 35°29.442'

W 108°25.781'

Well No.: OAPIS-1 (SWMU 14-2)

Start Date: 7/17/2012 14:30

Finish Date: 7/17/2012 17:30

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Completion Results
	Sample Depth	Time	Sample Type/Container/No	Saturation	Organic Vapor (ppm)	USCS Class			
16	16-18'	1710	G/2E/ 2V/2J	18'	5.7 86°F		90	Clay (CH) Similar to above, no odor	2" Flush Threaded Sch. 40 PVC Cap 16/30 Sieve Sand Filter Pack 2" Sch. 40 PVC Slotted 0.01" Screen w/Threaded Joints Saturated @ 18' bgl
18					10.7 86°F		80	Clay (CH) Similar to above, no odor	
20					--		90	Clay (CH) Similar to above, water in split spoon	
22					17.9 83°F		80	Clay (CH) Similar to above	
24	24-25'	1730	G/2E/ 2V/2J		12.8 83°F		90	Clay (CH) Similar to above, gray and reddish brown, no odor	
26					13.2 83°F		70	Clay (CH) Similar to above	
28							-	Clay (CH) Similar to above	
30								Total Depth = 26' BGL	
32									

LOG OF BORING

Client: Western Refining Southwest, Inc.
Site: SWMU No. 14 - Gallup Refinery
Job No.: UEC01655
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow-Stem Auger
Sampling Method: Split Spoon
Comments: N35°29.444' W108°25.779'

Boring No.: SWMU 14-3
Start Date: 7/18/2012 08:40
Finish Date: 7/18/2012 12:45
Total Depth: 26' bgl
Ground Water: Saturated @ 14' bgl
Elev., TOC (ft. msl): --
Elev., PAD (ft. msl): --
Elev., GL (ft. msl): --
Site Coordinates:
N 35°29.444' **W** 108°25.779'

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1125	G/2E/ 2V/2J		14.3 83°F		90	Ground Surface Fill (Silt/Clay/Gravel) Damp to dry, brown, no odor	0
2	1.5-2'	1200	G/2E/ 2V/2J		6.2 83°F		70	Silty Clay (CL) Low plasticity, firm, damp, brown, odor, black discoloration, gravelly	2
4					101 83°F		80	Silty Clay (CL) Similar to above, odor, soft	4
6					122 83°F		70	Silty Clay (CL) Similar to above, odor	6
8	8-10'	1215	G/2E/ 2V/2J		343 83°F		80	Silty Clay (CL) Similar to above, strong odor	8
10					155 83°F		70	Silty Clay (CL) Similar to above, odor	10
12	12-14'	1230	G/2E/ 2V/2J		326 83°F		80	Silty Clay (CL) Similar to above, odor	12
14				14'	--		90	Clay (CH) Moderate plasticity, firm, saturated - water in spoon, reddish brown, gravelly at top, odor	14
16					--		--	Clay (CH) Similar to above, damp	16

Client: Western Refining Southwest, Inc.
Site: SWMU No. 14 - Gallup Refinery
Job No.: UEC01655
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow-Stem Auger
Sampling Method: Split Spoon
Comments: N35°29.444' W108°25.779'

Boring No.: SWMU 14-3
Start Date: 7/18/2012 08:40
Finish Date: 7/18/2012 12:45
Total Depth: 26' bgl
Ground Water: Saturated @ 14' bgl
Elev., TOC (ft. msl): --
Elev., PAD (ft. msl): --
Elev., GL (ft. msl): --
Site Coordinates:
N 35°29.444' **W** 108°25.779'

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
19					--		--	Clay (CH) Similar to above	19
21					8.5 83°F		80	Clay (CH) High plasticity, very stiff, damp, reddish brown, no odor	21
23					5.4 83°F		90	Clay (CH) Similar to above, reddish brown and gray, no odor	23
25	25.5- 26'	1245	G/2E/ 2V/2J		2.3 83°F		90	Silty Clay (CL) Low plasticity, firm, damp, brown, no odor	25
27								Total Depth = 26' BGL	27
29									29
31									31
33									33
35									35

LOG OF BORING

Client: Western Refining Southwest, Inc.
Site: SWMU No. 14 - Gallup Refinery
Job No.: UEC01655
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow-Stem Auger
Sampling Method: Split Spoon
Comments: N35°29.439' W108°25.782'

Total Depth: 20' bgl
Ground Water: Not Encountered
Elev., TOC (ft. msl): --
Elev., PAD (ft. msl): --
Elev., GL (ft. msl): --
Site Coordinates:
N 35°29.439' **W** 108°25.782'

Boring No.: SWMU 14-4
Start Date: 7/17/2012 12:30
Finish Date: 7/17/2012 14:15

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1318	G/2E/ 2V/2J		5.9 87°F		90	Ground Surface Fill (Gravel/Clay) Damp, brown, no odor	0
2	1.5-2'	1330	G/2E/ 2V/2J		6.2 87°F		90	Silty Clay (CL) Low plasticity, firm to soft, damp, brown, no odor	2
4					28.2 87°F		90	Silty Clay (CL) Similar to above, no odor	4
6					23.1 87°F		90	Silty Clay (CL) Similar to above, odor	6
8					19.2 87°F		90	Silty Clay (CL) Moderate plasticity, soft, damp, brown and black, odor	8
10	10-12'	1400	G/2E/ 2V/2J		581 87°F		90	Silty Clay (CL) Similar to above, odor, brown	10
12					711 87°F		90	Silty Clay (CL) Similar to above, faint odor, gravel present	12
14					34.5 87°F		90	Clay (CH) Moderate plasticity, stiff, damp, reddish brown, no odor	14
16					8.7 84°F		100	Clay (CH) Similar to above, very stiff, no odor	16
					6.5 84°F		90		

LOG OF BORING

Client: Western Refining Southwest, Inc.
Site: SWMU No. 14 - Gallup Refinery
Job No.: UEC01655
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow-Stem Auger
Sampling Method: Split Spoon
Comments: N35°29.439' W108°25.782'

Total Depth: 20' bgl
Ground Water: Not Encountered
Elev., TOC (ft. msl): --
Elev., PAD (ft. msl): --
Elev., GL (ft. msl): --
Site Coordinates:
N 35°29.439' **W** 108°25.782'

Boring No.: SWMU 14-4
Start Date: 7/17/2012 12:30
Finish Date: 7/17/2012 14:15

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
19	19.5-20'	1415	G/2E/ 2V/2J		2.5 84°F		90	Clay (CH) Similar to above, no odor	19
21								Total Depth = 20' BGL	21
23									23
25									25
27									27
29									29
31									31
33									33
35									35

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 14 - Gallup Refinery

Job No.: UEC01655

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N35°29.441' W108°25.776'

Total Depth: 2' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N 35°29.441'

W 108°25.776'

Boring No.: SWMU 14-5

Start Date: 7/19/2012 14:25

Finish Date: 7/19/2012 15:15

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1500	G/4E/ 4V/4J		5.7 80°F		100	Ground Surface	0
2	1.5-2'	1506	G/2E/ 2V/2J		7.4 80°F			Fill (Gravel/Clay) Damp, reddish brown, no odor	2
4								Total Depth = 2' BGL	4
6									6
8									8
10									10
12									12
14									14
16									16

Client: Western Refining Southwest, Inc.
Site: SWMU No. 14 - Gallup Refinery
Job No.: UEC01655
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow-Stem Auger
Sampling Method: Split Spoon
Comments: N35°29.436' W108°25.781'

Total Depth: 18' bgl
Ground Water: Not Encountered
Elev., TOC (ft. msl): --
Elev., PAD (ft. msl): --
Elev., GL (ft. msl): --
Site Coordinates:
N **W**

Boring No.: SWMU 14-6
Start Date: 10/9/2012 1200
Finish Date: 10/9/2012 1415

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1335	G/2S 2M/3J		0.7 69°F		90	Ground Surface Silty Clay (CL) Low plasticity, stiff, dry to damp, brown, no odor	0
2	1.5-2'	1345	G/2S 2M/3J		3.9 69°F		80	Silty Clay (CL) Similar to above, no odor	2
4					306 69°F		70	Silty Clay (CL) Low plasticity, soft, damp, brown, odor, black staining	4
6					364 69°F		70	Silty Clay (CL) Similar to above, odor	6
8					345 69°F		80	Clay (CH) High plasticity, firm, damp, brown, odor	8
10	10-12'	1355	G 2M/3J		367 69°F		80	Clay (CH) Similar to above, odor	10
12					13.6 69°F		70	Clay (CH) Similar to above, dry, crumbly, odor, less intense to almost faint	12
14					10.5 69°F		30	Clay (CH) High plasticity, very stiff/dense, dry to damp, no odor	14
16	17-18'	1410	G/2S 2M/3J		4.6 70°F		60	Clay (CH) High plasticity, very stiff/dense, dry to damp, no odor, reddish brown	16
18								Total Depth = 18' BGL	18

LOG OF BORING

Client: Western Refining Southwest, Inc.
Site: SWMU No. 14 - Gallup Refinery
Job No.: UEC01655
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow-Stem Auger
Sampling Method: Split Spoon
Comments: N35°29.437' W108°25.778'

Total Depth: 24' bgl
Ground Water: Not Encountered
Elev., TOC (ft. msl): --
Elev., PAD (ft. msl): --
Elev., GL (ft. msl): --
Site Coordinates:
N 35°29.437' **W** 108°25.778'

Boring No.: SWMU 14-7
Start Date: 7/18/2012 17:25
Finish Date: 7/18/2012 19:20

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1830	G/2E/ 2V/2J		141 81°F		90	Ground Surface	0
2	1.5-2'	1850	G/2E/ 2V/2J		197 81°F		90	Fill (Gravel/Clay) Brown, damp, faint odor	2
4					293 81°F		90	Silty Clay (CL) Low plasticity, firm, damp, brown, odor, gravelly	4
6					365 81°F		90	Silty Clay (CL) Similar to above, strong odor	6
8	6-8'	1910	G/2E/ 2V/2J		935 81°F		90	Clay (CH) High plasticity, stiff, damp, reddish brown, odor	8
10					649 84°F		90	Clay (CH) Similar to above, dry, crumbly, calcareous, odor	10
12					--		--	Clay (CH) Similar to above, no recovery	12
14					265 84°F		90	Clay (CH/CL) Similar to above, becomes gray and sandy at base, odor	14
16					108 84°F		90	Clay (CH) High plasticity, very stiff, dry, brown with greenish gray sand in seams, odor	16
					74 86°F		60	Clayey Sand (SC) Fine grain, loose, damp, greenish gray, odor	

LOG OF BORING

Client: Western Refining Southwest, Inc.
Site: SWMU No. 14 - Gallup Refinery
Job No.: UEC01655
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow-Stem Auger
Sampling Method: Split Spoon
Comments: N35°29.437' W108°25.778'

Total Depth: 24' bgl
Ground Water: Not Encountered
Elev., TOC (ft. msl): --
Elev., PAD (ft. msl): --
Elev., GL (ft. msl): --
Site Coordinates:
N 35°29.437' **W** 108°25.778'

Boring No.: SWMU 14-7
Start Date: 7/18/2012 17:25
Finish Date: 7/18/2012 19:20

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
19					9.9 87°F		70	Clayey Sand/Sandy Clay (SC/CL) Similar to above, trace CH reddish brown clay at base, no odor	19
21					3.2 87°F		95	Clay (CH) High plasticity, very stiff, dry to damp, reddish brown, no odor	21
23	23.5- 24'	1920	G/2E/ 2V/2J		3.3 87°F		80	Clay (CH) Similar to above	23
25								Total Depth = 24' BGL	25
27									27
29									29
31									31
33									33
35									35

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 14 - Gallup Refinery

Job No.: UEC01655

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N35°29.445' W108°25.766'

Total Depth: 2' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N 35°29.445'

W 108°25.766'

Boring No.: SWMU 14-8

Start Date: 7/19/2012 11:15

Finish Date: 7/19/2012 11:45

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1127	G/2E/ 2V/2J		8.2 82°F		100	Ground Surface	0
2	1.5-2' &Dup	1140	G/4E/ 4V/4J		3717 82°F			Fill (Gravel/Clay/Sand) Dry to damp, brown to black, odor	2
4								Total Depth = 2' BGL	4
6									6
8									8
10									10
12									12
14									14
16									16

Client: Western Refining Southwest, Inc.
Site: SWMU No. 14 - Gallup Refinery
Job No.: UEC01655
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow-Stem Auger
Sampling Method: Split Spoon
Comments: N35°29.446' W108°25.757'

Total Depth: 14' bgl
Ground Water: Not Encountered
Elev., TOC (ft. msl): --
Elev., PAD (ft. msl): --
Elev., GL (ft. msl): --
Site Coordinates:
N 35°29.446' **W** 108°25.757'

Boring No.: SWMU 14-9
Start Date: 7/18/2012 14:00
Finish Date: 7/18/2012 17:15

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5' & Dup	1620	G/4E/ 4V/2J		4.9 74°F		100	Ground Surface	0
2	1.5-2'	1630	G/2E/ 2V/2J		106 74°F		90	Fill (Silt/Gravel) Loose, dry, brown	
								Fill (Clay) Low plasticity, soft, damp, brown, odor	2
							70	Fill (Clay) Similar to above, strong odor, damp	
4	4-6'	1640	G/2E/ 2V/2J		1712 74°F				4
							90	Sandy Clay (CL) Moderate to low plasticity, firm to soft, dark brown, damp, strong odor	
6					1959 74°F				6
							90	Sandy Clay (CL) Similar to above, odor	
8					582 74°F				8
							90	Silty Clay (CL) Low to moderate plasticity, firm, damp, brown, no odor	
10					10.9 74°F				10
							90	Clay (CH) High plasticity, stiff, damp, brown, no odor	
12					11.3 74°F				12
							90	Clay (CH) Similar to above, no odor	
14	13-14'	1700	G/2E/ 2V/2J		10.8 74°F				14
							90	Silty Clay (CL) Low plasticity, stiff, damp, brown, no odor	
								Total Depth = 14' BGL	

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 14 - Gallup Refinery

Job No.: UEC01655

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N35°29.443' W108°25.772'

Total Depth: 2' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N 35°29.443'

W 108°25.772'

Boring No.: SWMU 14-10

Start Date: 7/19/2012 10:20

Finish Date: 7/19/2012 11:10

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1100	G/2E/ 2V/2J		0.3 80°F		100	Ground Surface	0
2	1.5-2'	1105	G/2E/ 2V/2J		0.4 80°F			Fill (Gravel/Clay) Dry, brown, no odor	2
Total Depth = 2' BGL									

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 14 - Gallup Refinery

Job No.: UEC01655

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N35°29.447' W108°25.755'

Total Depth: 2' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N 35°29.447'

W 108°25.755'

Boring No.: SWMU 14-11

Start Date: 7/19/2012 13:20

Finish Date: 7/19/2012 13:55

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1333	G/2E/ 2V/2J		5.3 80°F		100	Ground Surface	0
2	1.5-2'	1338	G/2E/ 2V/2J		38.5 80°F			Fill (Gravel/Clay) Damp, brown, no odor	2
4								Total Depth = 2' BGL	4
6									6
8									8
10									10
12									12
14									14
16									16

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 14 - Gallup Refinery

Job No.: UEC01655

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N35°29.441' W108°25.768'

Total Depth: 2' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N 35°29.441'

W 108°25.768'

Boring No.: SWMU 14-12

Start Date: 7/19/2012 12:00

Finish Date: 7/19/2012 12:20

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1205	G/2E/ 2V/2J		949 84°F		100	Ground Surface	0
2	1.5-2'	1212	G/2E/ 2V/2J		1094 84°F			Clay (CH) High plasticity, soft, damp, brown to black, strong odor	2
4								Total Depth = 2' BGL	4
6									6
8									8
10									10
12									12
14									14
16									16

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 14 - Gallup Refinery

Job No.: UEC01655

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N35°29.442' W108°25.762'

Total Depth: 2' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N 35°29.442'

W 108°25.762'

Boring No.: SWMU 14-13

Start Date: 7/19/2012 12:20

Finish Date: 7/19/2012 12:50

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1236	G/2E/ 2V/2J		300 87°F		100	Ground Surface	0
2	1.5-2'	1245	G/2E/ 2V/2J		975 87°F			Clay (CH) High plasticity, soft, damp, dark brown to black, odor, sand lense from 0.75 to 1.25' bgl	2
4								Total Depth = 2' BGL	4
6									6
8									8
10									10
12									12
14									14
16									16

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 14 - Gallup Refinery

Job No.: UEC01655

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N35°29.444' W108°25.757'

Total Depth: 2' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N 35°29.444'

W 108°25.757'

Boring No.: SWMU 14-14

Start Date: 7/19/2012 12:55

Finish Date: 7/19/2012 13:20

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1307	G/2E/ 2V/2J		567 80°F		100	Ground Surface	0
2	1.5-2'	1312	G/2E/ 2V/2J		1028 80°F		100	Clay (CL) Low plasticity, soft, damp, dark brown, odor Clayey Sand (SC) Fine grain, compact, damp, black, odor	2
Total Depth = 2' BGL									

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 14 - Gallup Refinery

Job No.: UEC01655

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N35°29.438' W108°25.767'

Total Depth: 2' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N 35°29.438'

W 108°25.767'

Boring No.: SWMU 14-15

Start Date: 7/19/2012 17:00

Finish Date: 7/19/2012 17:20

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1714	G/2E/ 2V/1J		2.8 84°F		100	Ground Surface	0
2	1.5-2'	1719	G/2E/ 2V/1J		5000 84°F		100	Fill (Gravel/Sand) Red sand, damp, no odor Clayey Sand (SC) Fine grain, compact, damp, gray to black, strong odor	2
Total Depth = 2' BGL									

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 14 - Gallup Refinery

Job No.: UEC01655

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N35°29.442' W108°25.763'

Total Depth: 2' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N 35°29.442'

W 108°25.763'

Boring No.: SWMU 14-16

Start Date: 7/19/2012 16:30

Finish Date: 7/19/2012 17:00

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1645	G/2E/ 2V/1J		10.8 86°F		100	Ground Surface	0
2	1.5-2'	1651	G/2E/ 2V/1J		375.5 86°F		100	Fill (Silt/Sand) Very fine grain, loose, damp, brown Clay (CH) High plasticity, soft, damp, brown and black, odor	2
Total Depth = 2' BGL									

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 14 - Gallup Refinery

Job No.: UEC01655

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N35°29.442' W108°25.756'

Total Depth: 2' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N 35°29.442'

W 108°25.756'

Boring No.: SWMU 14-17

Start Date: 7/19/2012 15:45

Finish Date: 7/19/2012 16:30

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1611	G/2E/ 2V/1J		10.9 86°F		100	Ground Surface	0
2	1.5-2'	1618	G/2E/ 2V/1J		898 86°F		100	Fill (Clay/Silt) Damp, brown, no odor Clay (CH) High plasticity, soft, damp, brown to black, odor, oily	2
4								Total Depth = 2' BGL	4
6									6
8									8
10									10
12									12
14									14
16									16

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 14 - Gallup Refinery

Job No.: UEC01655

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N35°29.445' W108°25.751'

Total Depth: 2' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N 35°29.445'

W 108°25.751'

Boring No.: SWMU 14-18

Start Date: 7/19/2012 13:55

Finish Date: 7/19/2012 14:25

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1408	G/2E/ 2V/2J		5.0 80°F		100	Ground Surface	0
2	1.5-2'	1415	G/2E/ 2V/2J		2537 80°F		100	Fill (Silt/Sand/Gravel) Damp, brown, no odor Clayey Sand Fine grain sand, compact, damp, black, strong odor	2
Total Depth = 2' BGL									

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 14 - Gallup Refinery

Job No.: UEC01655

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N35°29.445' W108°25.744'

Total Depth: 2' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N 35°29.445'

W 108°25.744'

Boring No.: SWMU 14-19

Start Date: 7/19/2012 15:15

Finish Date: 7/19/2012 15:45

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1526	G/2E/ 2V/2J		4.4 86°F		100	Ground Surface	0
2	1.5-2'	1533	G/2E/ 2V/2J		5.1 86°F			Fill (Silt/Sand Clay) Damp, reddish brown, no odor	2
4								Total Depth = 2' BGL	4
6									6
8									8
10									10
12									12
14									14
16									16

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 14 - Gallup Refinery

Job No.: UEC01655

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N35°29.436' W108°25.739'; Blank samples collected 7/19/2012 (FB071912 @1800, EB071912 @1815)

Total Depth: 1' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N 35°29.436'

W 108°25.739'

Boring No.: SWMU 14-20

Start Date: 7/19/2012 17:20

Finish Date: 7/19/2012 17:55

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5' &Dup	1750	G/4E/ 4V/2J		2.0 84°F		100	Ground Surface Fill (Gravel/Sand) Compacted, very dense, dry, brown, no odor Total Depth = 1' BGL	0
2								Refusal at 1' bgl, no sample	2
4									4
6									6
8									8
10									10
12									12
14									14
16									16

LOG OF BORING

Client: Western Refining Southwest, Inc.
Site: SWMU No. 14 - Gallup Refinery
Job No.: UEC01655
Geologist: Tracy Payne
Driller: Enviro-Drill, Inc.
Drilling Rig: CME 75
Drilling Method: Hollow-Stem Auger
Sampling Method: Split Spoon
Comments: N35°29.431' W108°25.765'

Total Depth: 10' bgl
Ground Water: Not Encountered
Elev., TOC (ft. msl): --
Elev., PAD (ft. msl): --
Elev., GL (ft. msl): --
Site Coordinates:
N **W**

Boring No.: SWMU 14-21
Start Date: 10/9/2012 1445
Finish Date: 10/9/2012 1600

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1535	G/2S 2M/3J		10.5 71°F		40	Ground Surface	0
2	1.5-2'	1545	G/2S 2M/3J		4.6 71°F		40	Silty Clay (CL) Low plasticity, stiff, dry to damp, brown, no odor	2
4					8.6 71°F		90	Silty Clay (CL) Similar to above	4
6					7.6 71°F		90	Silty Clay (CL) Low plasticity, soft, damp, brown, no odor	6
8					4.5 71°F		90	Silty Clay (CL) Similar to above	8
10	8-10'	1600	G/2S 2M/3J					Silty Clay (CL) Similar to above	10
12								Total Depth = 10' BGL	12
14									14
16									16

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 14 - Gallup Refinery

Job No.: UEC01655

Geologist: Tracy Payne

Driller: Enviro-Drill, Inc.

Drilling Rig: CME 75

Drilling Method: Hollow-Stem Auger

Sampling Method: Split Spoon

Comments: N35°29.432' W108°25.758'

Total Depth: 10' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N W

Boring No.: SWMU 14-22

Start Date: 10/9/2012 1610

Finish Date: 10/9/2012 1730

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1645	G/2S 2M/3J		2.9 70°F		70	Ground Surface	0
2	1.5-2'	1655	G/2S 2M/3J		7.3 70°F		40	Silty Clay (CL) Low plasticity, stiff, dry, brown, no odor	2
4	4-6' & Dup	1720	G/4S 4M/6J		7.9 70°F		90	Silty Clay (CL) Similar to above	4
6					7.3 70°F		80	Silty Clay (CL) Low plasticity, soft, damp, brown, no odor	6
8	8-10'	1730	G/2S 2M/3J		4.9 70°F		90	Silty Clay (CL) Similar to above	8
10								Silty Clay (CL) Moderate plasticity, very soft, damp, reddish brown, no odor	10
12								Total Depth = 10' BGL	12
14									14
16									16

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 14 - Gallup Refinery

Job No.: UEC01655

Geologist: Tracy Payne

Driller: Enviro-Drill, Inc.

Drilling Rig: CME 75

Drilling Method: Hollow-Stem Auger

Sampling Method: Split Spoon

Comments: N35°29.449' W108°25.749'; Temporary well set from 15-20' bgl

Total Depth: 22' bgl

Ground Water: Saturated @ 16' bgl

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N W

Boring No.: SWMU 14-23

Start Date: 10/10/2012 1145

Finish Date: 10/10/2012 1415

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5'	1345	G/2S 2M/3J		11 77°F		70	Ground Surface Fill (Silty Clay (CL)) Low plasticity, stiff, dry, brown, no odor	0
2	1.5-2'	1355	G/2S 2M/3J		14.8 77°F		70	Fill (Silty Clay (CL)) Similar to above	2
4					13.6 77°F		90	Fill (Silty Clay (CL)) Similar to above	4
6					385 77°F		90	Clayey Silt/Sand (SC) Fine grain, loose, damp, brown, odor	6
8					112 77°F		60	Silty Clay (CL) Moderate plasticity, soft, damp, odor, brown	8
10					315 76°F		90	Silty Clay (CH) High plasticity, soft, damp, brown, odor	10
12	12-14'	1405	G/ 2M/3J		398 76°F		90	Silty Clay (CH) Similar to above, odor	12
14	14-16'	1415	G/2S 2M/3J		52 76°F		90	Clay (CH) Similar to above, odor	14
16				16'	120 75°F		50	Sandy Clay (CL) Moderate plasticity, very dense, damp, brown, odor, water in spoon, soupy	16

LOG OF BORING

Client: Western Refining Southwest, Inc.**Site:** SWMU No. 14 - Gallup Refinery**Job No.:** UEC01655**Geologist:** Tracy Payne**Driller:** Enviro-Drill, Inc.**Drilling Rig:** CME 75**Drilling Method:** Hollow-Stem Auger**Sampling Method:** Split Spoon**Comments:** N35°29.449' W108°25.749'; Temporary well set from 15-20' bgl**Total Depth:** 22' bgl**Ground Water:** Saturated @ 16' bgl**Elev., TOC (ft. msl):** --**Elev., PAD (ft. msl):** --**Elev., GL (ft. msl):** --**Site Coordinates:****N****W****Boring No.:** SWMU 14-23**Start Date:** 10/10/2012 1145**Finish Date:** 10/10/2012 1415

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
19							--	No Recovery	19
21							--	No Recovery	21
23								Total Depth = 22' BGL	23
25									25
27									27
29									29
31									31
33									33
35									35

LOG OF BORING

Client: Western Refining Southwest, Inc.

Site: SWMU No. 14 - Gallup Refinery

Job No.: UEC01655

Geologist: Tracy Payne

Driller: --

Drilling Rig: --

Drilling Method: Hand Auger

Sampling Method: Auger Bucket

Comments: N35°29.438' W108°25.751'

Total Depth: 2' bgl

Ground Water: Not Encountered

Elev., TOC (ft. msl): --

Elev., PAD (ft. msl): --

Elev., GL (ft. msl): --

Site Coordinates:

N

W

Boring No.: SWMU 14-24

Start Date: 10/17/2012 0940

Finish Date: 10/17/2012 1030

Depth (ft.)	Sampling						Recovery (%)	Sample Description	Depth (ft.)
	Sample Depth	Time	Sample Type/ Container/No.	Saturation	Organic Vapor (ppm)	USCS Class			
0	0-0.5' 1.5-2'	1015	G/2S 2M/3J		3.0 60°F		100	Ground Surface	0
2		1030	G/2S 2M/3J		4.0 60°F			Silty Clay (CL) Low plasticity, firm, dry to damp, brown, no odor	2
Total Depth = 2' BGL									2
4									4
6									6
8									8
10									10
12									12
14									14
16									16

Appendix E

Analytical Data Reports

SWMU 1 SOILS
METALS J-FLAGGED RESULTS

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/14/2012

CLIENT: Western Refining Company**Client Sample ID:** SWMU 1-2 (10-11')**Project:** SWMU NO.1**Collection Date:** 10/2/2012 10:20:00 AM**Lab ID:** 1210279-002C**Matrix:** Soil

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

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 2 of 0
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/14/2012

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/14/2012

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/14/2012

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/14/2012

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/14/2012

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/14/2012

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/14/2012

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 11 of 0
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/12/2012

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 6 of 0
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/26/2012

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/26/2012

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 11 of 0
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210811-012C

Client Sample ID: SWMU 1-15 (0-0.5')
Collection Date: 10/15/2012 4:20:00 PM
Matrix: Soil

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		
				Page 16 of 0

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Company
Project: SWMU NO.1
Lab ID: 1210858-006C

Client Sample ID: SWMU 1-22 (0-0.5')
Collection Date: 10/16/2012 11:35:00 AM
Matrix: Soil

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Company**Client Sample ID:** SWMU 1-23 (0-0.5')**Project:** SWMU NO.1**Collection Date:** 10/16/2012 12:10:00 PM**Lab ID:** 1210859-001C**Matrix:** Soil

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/14/2012

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

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/14/2012

CLIENT: Western Refining Company

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

Project: SWMU NO.1

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

Lab ID: 1210859-004C

Matrix: Soil

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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

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

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

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

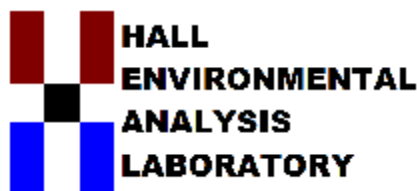
Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting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

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

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

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

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



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

November 14, 2012

Scott Crouch

Western Refining Southwest, Gallup

Rt. 3 Box 7

Gallup, NM 87301

TEL:

FAX

RE: SWMU NO.1

OrderNo.: 1210279

Dear Scott Crouch:

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

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

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-001

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-001

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-001

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-001

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-001

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-002

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-002

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-002

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-002

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-002

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-003

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-003

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-003

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-003

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-003

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-004

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-004

Matrix: SOIL

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

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-004

Matrix: SOIL

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-004

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-004

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-005

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-005

Matrix: SOIL

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

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

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-005

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-005

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-005

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 GW

Project: SWMU NO.1

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

Lab ID: 1210279-006

Matrix: AQUEOUS

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 GW

Project: SWMU NO.1

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

Lab ID: 1210279-006

Matrix: AQUEOUS

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 GW

Project: SWMU NO.1

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

Lab ID: 1210279-006

Matrix: AQUEOUS

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 GW

Project: SWMU NO.1

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

Lab ID: 1210279-006

Matrix: AQUEOUS

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-2 GW

Project: SWMU NO.1

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

Lab ID: 1210279-006

Matrix: AQUEOUS

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: TRIP BLANK

Project: SWMU NO.1

Collection Date:

Lab ID: 1210279-007

Matrix: TRIP BLANK

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: TRIP BLANK

Project: SWMU NO.1

Collection Date:

Lab ID: 1210279-007

Matrix: TRIP BLANK

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-008

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-008

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-008

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-008

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-008

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-009

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-009

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-009

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

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

Lab ID: 1210279-009

Matrix: SOIL

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

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

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

Project: SWMU NO.1

Collection Date: 10/2/2012 4:35:00 PM

Lab ID: 1210279-009

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Vinyl chloride	ND	0.00123		mg/Kg	1	10/8/2012 7:53:36 PM
Surr: 1,2-Dichloroethane-d4	99.2	70-130		%REC	1	10/8/2012 7:53:36 PM
Surr: 4-Bromofluorobenzene	88.1	70-130		%REC	1	10/8/2012 7:53:36 PM
Surr: Dibromofluoromethane	100	70-130		%REC	1	10/8/2012 7:53:36 PM
Surr: Toluene-d8	92.4	70-130		%REC	1	10/8/2012 7:53:36 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (11-11.25')

Project: SWMU NO.1

Collection Date: 10/2/2012 4:50:00 PM

Lab ID: 1210279-010

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/7/2012 3:57:50 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/7/2012 3:57:50 AM
Surr: DNOP	94.7	77.6-140		%REC	1	10/7/2012 3:57:50 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/5/2012 12:35:00 PM
Surr: BFB	99.5	84-116		%REC	1	10/5/2012 12:35:00 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 10:57:38 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	5.0		mg/Kg	2	10/23/2012 7:17:10 PM
Arsenic	ND	5.0		mg/Kg	2	10/17/2012 11:16:34 AM
Barium	110	0.50		mg/Kg	5	10/17/2012 1:40:18 PM
Beryllium	0.63	0.30		mg/Kg	2	10/17/2012 11:16:34 AM
Cadmium	ND	0.20		mg/Kg	2	10/17/2012 11:16:34 AM
Chromium	4.8	0.60		mg/Kg	2	10/17/2012 11:16:34 AM
Cobalt	3.2	0.60		mg/Kg	2	10/17/2012 11:16:34 AM
Iron	10000	500		mg/Kg	500	10/17/2012 1:42:41 PM
Lead	4.0	0.50		mg/Kg	2	10/17/2012 11:16:34 AM
Manganese	380	1.0		mg/Kg	10	10/23/2012 7:19:37 PM
Nickel	5.0	1.0		mg/Kg	2	10/17/2012 11:16:34 AM
Selenium	ND	5.0		mg/Kg	2	10/23/2012 7:17:10 PM
Silver	ND	0.50		mg/Kg	2	10/17/2012 11:16:34 AM
Vanadium	10	5.0		mg/Kg	2	10/17/2012 11:16:34 AM
Zinc	10	5.0		mg/Kg	2	10/17/2012 11:16:34 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Benzoic acid	ND	0.50		mg/Kg	1	10/9/2012 2:50:19 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (11-11.25')

Project: SWMU NO.1

Collection Date: 10/2/2012 4:50:00 PM

Lab ID: 1210279-010

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/9/2012 2:50:19 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 2:50:19 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/9/2012 2:50:19 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 2:50:19 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/9/2012 2:50:19 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 2:50:19 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 2:50:19 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 2:50:19 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/9/2012 2:50:19 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 2:50:19 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 2:50:19 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 2:50:19 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 2:50:19 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Isophorone	ND	0.50		mg/Kg	1	10/9/2012 2:50:19 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
2-Methylphenol	ND	0.50		mg/Kg	1	10/9/2012 2:50:19 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (11-11.25')

Project: SWMU NO.1

Collection Date: 10/2/2012 4:50:00 PM

Lab ID: 1210279-010

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 2:50:19 PM
Nitrobenzene	ND	0.50		mg/Kg	1	10/9/2012 2:50:19 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 2:50:19 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 2:50:19 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Pyridine	ND	0.50		mg/Kg	1	10/9/2012 2:50:19 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 2:50:19 PM
Surr: 2,4,6-Tribromophenol	83.8	21.3-145		%REC	1	10/9/2012 2:50:19 PM
Surr: 2-Fluorobiphenyl	76.6	20-131		%REC	1	10/9/2012 2:50:19 PM
Surr: 2-Fluorophenol	73.1	11.9-130		%REC	1	10/9/2012 2:50:19 PM
Surr: 4-Terphenyl-d14	66.9	25.1-149		%REC	1	10/9/2012 2:50:19 PM
Surr: Nitrobenzene-d5	73.7	25.6-137		%REC	1	10/9/2012 2:50:19 PM
Surr: Phenol-d5	77.1	20.3-132		%REC	1	10/9/2012 2:50:19 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Toluene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Ethylbenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Xylenes, Total	ND	0.00217		mg/Kg	1	10/8/2012 8:24:25 PM
Methyl tert-butyl ether (MTBE)	0.00115	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,2,4-Trimethylbenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,3,5-Trimethylbenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,2-Dichloroethane (EDC)	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,2-Dibromoethane (EDB)	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Naphthalene	ND	0.00217		mg/Kg	1	10/8/2012 8:24:25 PM
1-Methylnaphthalene	ND	0.00434		mg/Kg	1	10/8/2012 8:24:25 PM
2-Methylnaphthalene	ND	0.00434		mg/Kg	1	10/8/2012 8:24:25 PM
Acetone	0.0469	0.0108		mg/Kg	1	10/8/2012 8:24:25 PM
Bromobenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Bromodichloromethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Bromoform	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Bromomethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
2-Butanone	ND	0.0108		mg/Kg	1	10/8/2012 8:24:25 PM
Carbon tetrachloride	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Chlorobenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Chloroethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (11-11.25')

Project: SWMU NO.1

Collection Date: 10/2/2012 4:50:00 PM

Lab ID: 1210279-010

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Chloromethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
2-Chlorotoluene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Carbon disulfide	ND	0.0108		mg/Kg	1	10/8/2012 8:24:25 PM
4-Chlorotoluene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
cis-1,2-DCE	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
cis-1,3-Dichloropropene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,2-Dibromo-3-chloropropane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Dibromochloromethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Dibromomethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,2-Dichlorobenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,3-Dichlorobenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,4-Dichlorobenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Dichlorodifluoromethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,1-Dichloroethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,1-Dichloroethene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,2-Dichloropropane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,3-Dichloropropane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
2,2-Dichloropropane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,1-Dichloropropene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Hexachlorobutadiene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Isopropylbenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
4-Isopropyltoluene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Methylene chloride	ND	0.00325		mg/Kg	1	10/8/2012 8:24:25 PM
n-Butylbenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
2-Hexanone	ND	0.0108		mg/Kg	1	10/8/2012 8:24:25 PM
n-Propylbenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
sec-Butylbenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Styrene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
4-Methyl-2-pentanone	ND	0.0108		mg/Kg	1	10/8/2012 8:24:25 PM
tert-Butylbenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,1,1,2-Tetrachloroethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,1,2,2-Tetrachloroethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Tetrachloroethene (PCE)	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
trans-1,2-DCE	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
trans-1,3-Dichloropropene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,2,3-Trichlorobenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,2,4-Trichlorobenzene	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,1,1-Trichloroethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
1,1,2-Trichloroethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Trichloroethene (TCE)	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Trichlorofluoromethane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (11-11.25')

Project: SWMU NO.1

Collection Date: 10/2/2012 4:50:00 PM

Lab ID: 1210279-010

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Vinyl chloride	ND	0.00108		mg/Kg	1	10/8/2012 8:24:25 PM
Surr: 1,2-Dichloroethane-d4	100	70-130		%REC	1	10/8/2012 8:24:25 PM
Surr: 4-Bromofluorobenzene	89.2	70-130		%REC	1	10/8/2012 8:24:25 PM
Surr: Dibromofluoromethane	104	70-130		%REC	1	10/8/2012 8:24:25 PM
Surr: Toluene-d8	89.1	70-130		%REC	1	10/8/2012 8:24:25 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (18.5-19.5')

Project: SWMU NO.1

Collection Date: 10/2/2012 5:10:00 PM

Lab ID: 1210279-011

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/7/2012 4:22:29 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/7/2012 4:22:29 AM
Surr: DNOP	96.0	77.6-140		%REC	1	10/7/2012 4:22:29 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 2:54:09 AM
Surr: BFB	124	84-116	S	%REC	1	10/6/2012 2:54:09 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 10:59:26 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	5.0		mg/Kg	2	10/23/2012 7:22:03 PM
Arsenic	ND	5.0		mg/Kg	2	10/17/2012 11:32:55 AM
Barium	270	1.0		mg/Kg	10	10/17/2012 1:45:34 PM
Beryllium	0.79	0.30		mg/Kg	2	10/17/2012 11:32:55 AM
Cadmium	ND	0.20		mg/Kg	2	10/17/2012 11:32:55 AM
Chromium	9.3	0.60		mg/Kg	2	10/17/2012 11:32:55 AM
Cobalt	5.4	0.60		mg/Kg	2	10/17/2012 11:32:55 AM
Iron	16000	500		mg/Kg	500	10/17/2012 1:48:00 PM
Lead	4.8	0.50		mg/Kg	2	10/17/2012 11:32:55 AM
Manganese	510	2.0		mg/Kg	20	10/23/2012 7:24:33 PM
Nickel	10	1.0		mg/Kg	2	10/17/2012 11:32:55 AM
Selenium	ND	5.0		mg/Kg	2	10/23/2012 7:22:03 PM
Silver	ND	0.50		mg/Kg	2	10/17/2012 11:32:55 AM
Vanadium	11	5.0		mg/Kg	2	10/17/2012 11:32:55 AM
Zinc	15	5.0		mg/Kg	2	10/17/2012 11:32:55 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Benzoic acid	ND	0.49		mg/Kg	1	10/9/2012 5:22:05 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (18.5-19.5')

Project: SWMU NO.1

Collection Date: 10/2/2012 5:10:00 PM

Lab ID: 1210279-011

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.49		mg/Kg	1	10/9/2012 5:22:05 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
4-Chloro-3-methylphenol	ND	0.49		mg/Kg	1	10/9/2012 5:22:05 PM
4-Chloroaniline	ND	0.49		mg/Kg	1	10/9/2012 5:22:05 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 5:22:05 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Di-n-butyl phthalate	ND	0.49		mg/Kg	1	10/9/2012 5:22:05 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 5:22:05 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 5:22:05 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 5:22:05 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/9/2012 5:22:05 PM
4,6-Dinitro-2-methylphenol	ND	0.49		mg/Kg	1	10/9/2012 5:22:05 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 5:22:05 PM
2,4-Dinitrotoluene	ND	0.49		mg/Kg	1	10/9/2012 5:22:05 PM
2,6-Dinitrotoluene	ND	0.49		mg/Kg	1	10/9/2012 5:22:05 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Isophorone	ND	0.49		mg/Kg	1	10/9/2012 5:22:05 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
2-Methylphenol	ND	0.49		mg/Kg	1	10/9/2012 5:22:05 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (18.5-19.5')

Project: SWMU NO.1

Collection Date: 10/2/2012 5:10:00 PM

Lab ID: 1210279-011

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 5:22:05 PM
Nitrobenzene	ND	0.49		mg/Kg	1	10/9/2012 5:22:05 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 5:22:05 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 5:22:05 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Pyridine	ND	0.49		mg/Kg	1	10/9/2012 5:22:05 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 5:22:05 PM
Surr: 2,4,6-Tribromophenol	74.8	21.3-145		%REC	1	10/9/2012 5:22:05 PM
Surr: 2-Fluorobiphenyl	70.5	20-131		%REC	1	10/9/2012 5:22:05 PM
Surr: 2-Fluorophenol	72.6	11.9-130		%REC	1	10/9/2012 5:22:05 PM
Surr: 4-Terphenyl-d14	70.5	25.1-149		%REC	1	10/9/2012 5:22:05 PM
Surr: Nitrobenzene-d5	72.2	25.6-137		%REC	1	10/9/2012 5:22:05 PM
Surr: Phenol-d5	76.1	20.3-132		%REC	1	10/9/2012 5:22:05 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	0.00269	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Toluene	0.00164	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Ethylbenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Xylenes, Total	ND	0.00258		mg/Kg	1	10/8/2012 8:55:09 PM
Methyl tert-butyl ether (MTBE)	0.00256	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,2,4-Trimethylbenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,3,5-Trimethylbenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,2-Dichloroethane (EDC)	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,2-Dibromoethane (EDB)	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Naphthalene	ND	0.00258		mg/Kg	1	10/8/2012 8:55:09 PM
1-Methylnaphthalene	ND	0.00517		mg/Kg	1	10/8/2012 8:55:09 PM
2-Methylnaphthalene	ND	0.00517		mg/Kg	1	10/8/2012 8:55:09 PM
Acetone	ND	0.0129		mg/Kg	1	10/8/2012 8:55:09 PM
Bromobenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Bromodichloromethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Bromoform	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Bromomethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
2-Butanone	ND	0.0129		mg/Kg	1	10/8/2012 8:55:09 PM
Carbon tetrachloride	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Chlorobenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Chloroethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (18.5-19.5')

Project: SWMU NO.1

Collection Date: 10/2/2012 5:10:00 PM

Lab ID: 1210279-011

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Chloromethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
2-Chlorotoluene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Carbon disulfide	ND	0.0129		mg/Kg	1	10/8/2012 8:55:09 PM
4-Chlorotoluene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
cis-1,2-DCE	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
cis-1,3-Dichloropropene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,2-Dibromo-3-chloropropane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Dibromochloromethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Dibromomethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,2-Dichlorobenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,3-Dichlorobenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,4-Dichlorobenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Dichlorodifluoromethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,1-Dichloroethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,1-Dichloroethene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,2-Dichloropropane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,3-Dichloropropane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
2,2-Dichloropropane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,1-Dichloropropene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Hexachlorobutadiene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Isopropylbenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
4-Isopropyltoluene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Methylene chloride	ND	0.00388		mg/Kg	1	10/8/2012 8:55:09 PM
n-Butylbenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
2-Hexanone	ND	0.0129		mg/Kg	1	10/8/2012 8:55:09 PM
n-Propylbenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
sec-Butylbenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Styrene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
4-Methyl-2-pentanone	ND	0.0129		mg/Kg	1	10/8/2012 8:55:09 PM
tert-Butylbenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,1,1,2-Tetrachloroethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,1,2,2-Tetrachloroethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Tetrachloroethene (PCE)	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
trans-1,2-DCE	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
trans-1,3-Dichloropropene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,2,3-Trichlorobenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,2,4-Trichlorobenzene	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,1,1-Trichloroethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
1,1,2-Trichloroethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Trichloroethene (TCE)	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Trichlorofluoromethane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (18.5-19.5')

Project: SWMU NO.1

Collection Date: 10/2/2012 5:10:00 PM

Lab ID: 1210279-011

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Vinyl chloride	ND	0.00129		mg/Kg	1	10/8/2012 8:55:09 PM
Surr: 1,2-Dichloroethane-d4	100	70-130		%REC	1	10/8/2012 8:55:09 PM
Surr: 4-Bromofluorobenzene	92.0	70-130		%REC	1	10/8/2012 8:55:09 PM
Surr: Dibromofluoromethane	103	70-130		%REC	1	10/8/2012 8:55:09 PM
Surr: Toluene-d8	88.3	70-130		%REC	1	10/8/2012 8:55:09 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (19.5-20')

Project: SWMU NO.1

Collection Date: 10/2/2012 5:25:00 PM

Lab ID: 1210279-012

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/7/2012 4:47:05 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/7/2012 4:47:05 AM
Surr: DNOP	96.2	77.6-140		%REC	1	10/7/2012 4:47:05 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 4:55:02 AM
Surr: BFB	110	84-116		%REC	1	10/6/2012 4:55:02 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 11:01:18 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	5.0		mg/Kg	2	10/23/2012 7:26:58 PM
Arsenic	ND	5.0		mg/Kg	2	10/17/2012 11:38:08 AM
Barium	400	1.0		mg/Kg	10	10/17/2012 2:00:57 PM
Beryllium	0.83	0.30		mg/Kg	2	10/17/2012 11:38:08 AM
Cadmium	ND	0.20		mg/Kg	2	10/17/2012 11:38:08 AM
Chromium	10	0.60		mg/Kg	2	10/17/2012 11:38:08 AM
Cobalt	5.7	0.60		mg/Kg	2	10/17/2012 11:38:08 AM
Iron	16000	500		mg/Kg	500	10/17/2012 2:05:01 PM
Lead	2.8	0.50		mg/Kg	2	10/17/2012 11:38:08 AM
Manganese	610	2.0		mg/Kg	20	10/23/2012 7:36:44 PM
Nickel	12	1.0		mg/Kg	2	10/17/2012 11:38:08 AM
Selenium	ND	5.0		mg/Kg	2	10/23/2012 7:26:58 PM
Silver	ND	0.50		mg/Kg	2	10/17/2012 11:38:08 AM
Vanadium	10	5.0		mg/Kg	2	10/17/2012 11:38:08 AM
Zinc	16	5.0		mg/Kg	2	10/17/2012 11:38:08 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Benzoic acid	ND	0.50		mg/Kg	1	10/9/2012 5:52:19 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (19.5-20')

Project: SWMU NO.1

Collection Date: 10/2/2012 5:25:00 PM

Lab ID: 1210279-012

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/9/2012 5:52:19 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 5:52:19 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/9/2012 5:52:19 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 5:52:19 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/9/2012 5:52:19 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 5:52:19 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 5:52:19 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 5:52:19 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/9/2012 5:52:19 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 5:52:19 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 5:52:19 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 5:52:19 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 5:52:19 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Isophorone	ND	0.50		mg/Kg	1	10/9/2012 5:52:19 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
2-Methylphenol	ND	0.50		mg/Kg	1	10/9/2012 5:52:19 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (19.5-20')

Project: SWMU NO.1

Collection Date: 10/2/2012 5:25:00 PM

Lab ID: 1210279-012

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 5:52:19 PM
Nitrobenzene	ND	0.50		mg/Kg	1	10/9/2012 5:52:19 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 5:52:19 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 5:52:19 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Pyridine	ND	0.50		mg/Kg	1	10/9/2012 5:52:19 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 5:52:19 PM
Surr: 2,4,6-Tribromophenol	80.2	21.3-145		%REC	1	10/9/2012 5:52:19 PM
Surr: 2-Fluorobiphenyl	74.8	20-131		%REC	1	10/9/2012 5:52:19 PM
Surr: 2-Fluorophenol	80.7	11.9-130		%REC	1	10/9/2012 5:52:19 PM
Surr: 4-Terphenyl-d14	65.7	25.1-149		%REC	1	10/9/2012 5:52:19 PM
Surr: Nitrobenzene-d5	78.3	25.6-137		%REC	1	10/9/2012 5:52:19 PM
Surr: Phenol-d5	78.3	20.3-132		%REC	1	10/9/2012 5:52:19 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	0.00855	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Toluene	0.00500	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Ethylbenzene	0.00125	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Xylenes, Total	0.00344	0.00240		mg/Kg	1	10/8/2012 9:25:50 PM
Methyl tert-butyl ether (MTBE)	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,2,4-Trimethylbenzene	0.00132	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,3,5-Trimethylbenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,2-Dichloroethane (EDC)	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,2-Dibromoethane (EDB)	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Naphthalene	ND	0.00240		mg/Kg	1	10/8/2012 9:25:50 PM
1-Methylnaphthalene	ND	0.00481		mg/Kg	1	10/8/2012 9:25:50 PM
2-Methylnaphthalene	ND	0.00481		mg/Kg	1	10/8/2012 9:25:50 PM
Acetone	ND	0.0120		mg/Kg	1	10/8/2012 9:25:50 PM
Bromobenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Bromodichloromethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Bromoform	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Bromomethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
2-Butanone	ND	0.0120		mg/Kg	1	10/8/2012 9:25:50 PM
Carbon tetrachloride	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Chlorobenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Chloroethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM

Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (19.5-20')

Project: SWMU NO.1

Collection Date: 10/2/2012 5:25:00 PM

Lab ID: 1210279-012

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Chloromethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
2-Chlorotoluene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Carbon disulfide	ND	0.0120		mg/Kg	1	10/8/2012 9:25:50 PM
4-Chlorotoluene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
cis-1,2-DCE	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
cis-1,3-Dichloropropene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,2-Dibromo-3-chloropropane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Dibromochloromethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Dibromomethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,2-Dichlorobenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,3-Dichlorobenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,4-Dichlorobenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Dichlorodifluoromethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,1-Dichloroethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,1-Dichloroethene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,2-Dichloropropane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,3-Dichloropropane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
2,2-Dichloropropane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,1-Dichloropropene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Hexachlorobutadiene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Isopropylbenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
4-Isopropyltoluene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Methylene chloride	ND	0.00360		mg/Kg	1	10/8/2012 9:25:50 PM
n-Butylbenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
2-Hexanone	ND	0.0120		mg/Kg	1	10/8/2012 9:25:50 PM
n-Propylbenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
sec-Butylbenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Styrene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
4-Methyl-2-pentanone	ND	0.0120		mg/Kg	1	10/8/2012 9:25:50 PM
tert-Butylbenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,1,1,2-Tetrachloroethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,1,2,2-Tetrachloroethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Tetrachloroethene (PCE)	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
trans-1,2-DCE	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
trans-1,3-Dichloropropene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,2,3-Trichlorobenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,2,4-Trichlorobenzene	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,1,1-Trichloroethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
1,1,2-Trichloroethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Trichloroethene (TCE)	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Trichlorofluoromethane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 (19.5-20')

Project: SWMU NO.1

Collection Date: 10/2/2012 5:25:00 PM

Lab ID: 1210279-012

Matrix: SOIL

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Vinyl chloride	ND	0.00120		mg/Kg	1	10/8/2012 9:25:50 PM
Surr: 1,2-Dichloroethane-d4	104	70-130		%REC	1	10/8/2012 9:25:50 PM
Surr: 4-Bromofluorobenzene	95.3	70-130		%REC	1	10/8/2012 9:25:50 PM
Surr: Dibromofluoromethane	103	70-130		%REC	1	10/8/2012 9:25:50 PM
Surr: Toluene-d8	90.5	70-130		%REC	1	10/8/2012 9:25:50 PM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100212

Project: SWMU NO.1

Collection Date: 10/2/2012 5:45:00 PM

Lab ID: 1210279-013

Matrix: AQUEOUS

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/8/2012 11:26:09 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/8/2012 11:26:09 AM
Surr: DNOP	118	79.5-166		%REC	1	10/8/2012 11:26:09 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/5/2012 6:49:39 PM
Surr: BFB	97.5	69.8-119		%REC	1	10/5/2012 6:49:39 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Fluoride	ND	0.10		mg/L	1	10/4/2012 12:22:52 PM
Chloride	ND	0.50		mg/L	1	10/4/2012 12:22:52 PM
Sulfate	ND	0.50		mg/L	1	10/4/2012 12:22:52 PM
EPA METHOD 200.7: METALS						Analyst: JLF
Barium	ND	0.0020		mg/L	1	10/10/2012 10:02:26 PM
Beryllium	ND	0.0020		mg/L	1	10/10/2012 10:02:26 PM
Cadmium	ND	0.0020		mg/L	1	10/10/2012 10:02:26 PM
Chromium	ND	0.0060		mg/L	1	10/10/2012 10:02:26 PM
Cobalt	ND	0.0060		mg/L	1	10/10/2012 10:02:26 PM
Iron	ND	0.020		mg/L	1	10/10/2012 10:02:26 PM
Manganese	ND	0.0020		mg/L	1	10/10/2012 10:02:26 PM
Nickel	ND	0.010		mg/L	1	10/10/2012 10:02:26 PM
Silver	ND	0.0050		mg/L	1	10/10/2012 10:02:26 PM
Vanadium	ND	0.050		mg/L	1	10/10/2012 10:02:26 PM
Zinc	ND	0.010		mg/L	1	10/12/2012 9:22:54 AM
EPA 200.8: METALS						Analyst: DBD
Antimony	ND	0.0010		mg/L	1	10/17/2012 12:40:00 PM
Arsenic	ND	0.0010		mg/L	1	10/17/2012 12:40:00 PM
Lead	ND	0.0010		mg/L	1	10/17/2012 12:40:00 PM
Selenium	ND	0.0010		mg/L	1	10/17/2012 12:40:00 PM
EPA METHOD 245.1: MERCURY						Analyst: IDC
Mercury	ND	0.00020		mg/L	1	10/15/2012 6:15:26 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Acenaphthylene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Aniline	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Anthracene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Azobenzene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Benz(a)anthracene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Benzo(a)pyrene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	10/8/2012 7:29:47 PM

Qualifiers:

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- J Analyte detected below quantitation limits
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- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100212

Project: SWMU NO.1

Collection Date: 10/2/2012 5:45:00 PM

Lab ID: 1210279-013

Matrix: AQUEOUS

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(k)fluoranthene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Benzoic acid	ND	20		µg/L	1	10/8/2012 7:29:47 PM
Benzyl alcohol	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	10/8/2012 7:29:47 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Butyl benzyl phthalate	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Carbazole	ND	10		µg/L	1	10/8/2012 7:29:47 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	10/8/2012 7:29:47 PM
4-Chloroaniline	ND	10		µg/L	1	10/8/2012 7:29:47 PM
2-Chloronaphthalene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
2-Chlorophenol	ND	10		µg/L	1	10/8/2012 7:29:47 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Chrysene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Di-n-butyl phthalate	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Di-n-octyl phthalate	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Dibenzofuran	ND	10		µg/L	1	10/8/2012 7:29:47 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Diethyl phthalate	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Dimethyl phthalate	ND	10		µg/L	1	10/8/2012 7:29:47 PM
2,4-Dichlorophenol	ND	20		µg/L	1	10/8/2012 7:29:47 PM
2,4-Dimethylphenol	ND	10		µg/L	1	10/8/2012 7:29:47 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	10/8/2012 7:29:47 PM
2,4-Dinitrophenol	ND	20		µg/L	1	10/8/2012 7:29:47 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Fluoranthene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Fluorene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Hexachlorobenzene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Hexachlorobutadiene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Hexachloroethane	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Isophorone	ND	10		µg/L	1	10/8/2012 7:29:47 PM
1-Methylnaphthalene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
2-Methylnaphthalene	ND	10		µg/L	1	10/8/2012 7:29:47 PM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
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- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100212

Project: SWMU NO.1

Collection Date: 10/2/2012 5:45:00 PM

Lab ID: 1210279-013

Matrix: AQUEOUS

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylphenol	ND	10		µg/L	1	10/8/2012 7:29:47 PM
3+4-Methylphenol	ND	10		µg/L	1	10/8/2012 7:29:47 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/8/2012 7:29:47 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	10/8/2012 7:29:47 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Naphthalene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
2-Nitroaniline	ND	10		µg/L	1	10/8/2012 7:29:47 PM
3-Nitroaniline	ND	10		µg/L	1	10/8/2012 7:29:47 PM
4-Nitroaniline	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Nitrobenzene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
2-Nitrophenol	ND	10		µg/L	1	10/8/2012 7:29:47 PM
4-Nitrophenol	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Pentachlorophenol	ND	20		µg/L	1	10/8/2012 7:29:47 PM
Phenanthrene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Phenol	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Pyrene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Pyridine	ND	10		µg/L	1	10/8/2012 7:29:47 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/8/2012 7:29:47 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	10/8/2012 7:29:47 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	10/8/2012 7:29:47 PM
Surr: 2,4,6-Tribromophenol	74.8	44.2-126		%REC	1	10/8/2012 7:29:47 PM
Surr: 2-Fluorobiphenyl	63.7	37-114		%REC	1	10/8/2012 7:29:47 PM
Surr: 2-Fluorophenol	60.4	23.4-98		%REC	1	10/8/2012 7:29:47 PM
Surr: 4-Terphenyl-d14	64.6	41.3-116		%REC	1	10/8/2012 7:29:47 PM
Surr: Nitrobenzene-d5	72.6	39.5-118		%REC	1	10/8/2012 7:29:47 PM
Surr: Phenol-d5	44.8	20.9-95.9		%REC	1	10/8/2012 7:29:47 PM
EPA METHOD 8260B: VOLATILES						Analyst: JDJ
Benzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Toluene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Ethylbenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Naphthalene	ND	2.0		µg/L	1	10/4/2012 11:20:42 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/4/2012 11:20:42 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/4/2012 11:20:42 PM
Acetone	ND	10		µg/L	1	10/4/2012 11:20:42 PM
Bromobenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100212

Project: SWMU NO.1

Collection Date: 10/2/2012 5:45:00 PM

Lab ID: 1210279-013

Matrix: AQUEOUS

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: JDJ
Bromoform	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Bromomethane	ND	3.0		µg/L	1	10/4/2012 11:20:42 PM
2-Butanone	ND	10		µg/L	1	10/4/2012 11:20:42 PM
Carbon disulfide	ND	10		µg/L	1	10/4/2012 11:20:42 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Chlorobenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Chloroethane	ND	2.0		µg/L	1	10/4/2012 11:20:42 PM
Chloroform	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Chloromethane	ND	3.0		µg/L	1	10/4/2012 11:20:42 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/4/2012 11:20:42 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Dibromomethane	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/4/2012 11:20:42 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
2-Hexanone	ND	10		µg/L	1	10/4/2012 11:20:42 PM
Isopropylbenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/4/2012 11:20:42 PM
Methylene Chloride	ND	3.0		µg/L	1	10/4/2012 11:20:42 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/4/2012 11:20:42 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Styrene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/4/2012 11:20:42 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210279

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100212

Project: SWMU NO.1

Collection Date: 10/2/2012 5:45:00 PM

Lab ID: 1210279-013

Matrix: AQUEOUS

Received Date: 10/4/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: JDJ
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/4/2012 11:20:42 PM
Vinyl chloride	ND	1.0		µg/L	1	10/4/2012 11:20:42 PM
Xylenes, Total	ND	1.5		µg/L	1	10/4/2012 11:20:42 PM
Surr: 1,2-Dichloroethane-d4	93.9	70-130		%REC	1	10/4/2012 11:20:42 PM
Surr: 4-Bromofluorobenzene	112	70-130		%REC	1	10/4/2012 11:20:42 PM
Surr: Dibromofluoromethane	99.3	70-130		%REC	1	10/4/2012 11:20:42 PM
Surr: Toluene-d8	92.3	70-130		%REC	1	10/4/2012 11:20:42 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Anatek Labs, Inc.

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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 #: 121005049
Project Name: 1210279

Analytical Results Report

Sample Number	121005049-001	Sampling Date	10/2/2012	Date/Time Received	10/5/2012	10:54 A	
Client Sample ID	1210279-001D / SWMU 1-2 (6-8)			Sampling Time	10:00 AM		
Matrix	Soil	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	15.1	Percent		10/9/2012	KFG	%moisture	

Sample Number	121005049-002	Sampling Date	10/2/2012	Date/Time Received	10/5/2012	10:54 A	
Client Sample ID	1210279-002D / SWMU 1-2 (10-11)			Sampling Time	10:20 AM		
Matrix	Soil	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	19.8	Percent		10/9/2012	KFG	%moisture	

Sample Number	121005049-003	Sampling Date	10/2/2012	Date/Time Received	10/5/2012	10:54 A	
Client Sample ID	1210279-003D / SWMU 1-2 (14-16)			Sampling Time	10:35 AM		
Matrix	Soil	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	16.5	Percent		10/9/2012	KFG	%moisture	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 121005049
Project Name: 1210279

Analytical Results Report

Sample Number	121005049-004	Sampling Date	10/2/2012	Date/Time Received	10/5/2012	10:54 A
Client Sample ID	1210279-004D / SWMU 1-2 (17-17.25)			Sampling Time	10:50 AM	
Matrix	Soil	Sample Location				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	19.3	Percent		10/9/2012	KFG	%moisture	

Sample Number	121005049-005	Sampling Date	10/2/2012	Date/Time Received	10/5/2012	10:54 A
Client Sample ID	1210279-005D / SWMU 1-2 (19.5-20)			Sampling Time	11:05 AM	
Matrix	Soil	Sample Location				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	10.8	Percent		10/9/2012	KFG	%moisture	

Sample Number	121005049-006	Sampling Date	10/2/2012	Date/Time Received	10/5/2012	10:54 A
Client Sample ID	1210279-006F / SWMU 1-2 GW			Sampling Time	1:45 PM	
Matrix	Water	Sample Location				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	0.0367	mg/L	0.01	10/16/2012	CRW	EPA 335.4	

Sample Number	121005049-007	Sampling Date	10/2/2012	Date/Time Received	10/5/2012	10:54 A
Client Sample ID	1210279-008D / SWMU 1-3 (2-4)			Sampling Time	4:20 PM	
Matrix	Soil	Sample Location				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	11.4	Percent		10/9/2012	KFG	%moisture	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 121005049
Project Name: 1210279

Analytical Results Report

Sample Number	121005049-008	Sampling Date	10/2/2012	Date/Time Received	10/5/2012	10:54 A
Client Sample ID	1210279-009D / SWMU 1-3 (10-11)			Sampling Time	4:35 PM	
Matrix	Soil	Sample Location				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	18.1	Percent		10/9/2012	KFG	%moisture	

Sample Number	121005049-009	Sampling Date	10/2/2012	Date/Time Received	10/5/2012	10:54 A
Client Sample ID	1210279-010D / SWMU 1-3 (11-11.25)			Sampling Time	4:50 PM	
Matrix	Soil	Sample Location				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	17.5	Percent		10/9/2012	KFG	%moisture	

Sample Number	121005049-010	Sampling Date	10/2/2012	Date/Time Received	10/5/2012	10:54 A
Client Sample ID	1210279-011D / SWMU 1-3 (18.5-19.5)			Sampling Time	5:10 PM	
Matrix	Soil	Sample Location				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	18.3	Percent		10/9/2012	KFG	%moisture	

Sample Number	121005049-011	Sampling Date	10/2/2012	Date/Time Received	10/5/2012	10:54 A
Client Sample ID	1210279-012D / SWMU 1-3 (19.5-20)			Sampling Time	5:25 PM	
Matrix	Soil	Sample Location				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	13.3	Percent		10/9/2012	KFG	%moisture	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0085

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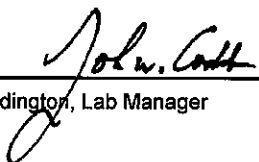
Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 121005049
Project Name: 1210279

Analytical Results Report

Sample Number	121005049-012	Sampling Date	10/2/2012	Date/Time Received	10/5/2012	10:54 A
Client Sample ID	1210279-013F / EB100212			Sampling Time	5:45 PM	
Matrix	Water	Sample Location				
Comments						

Authorized Signature


John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB		SampType: MBLK			TestCode: EPA Method 200.7: Metals				
Client ID:	PBW		Batch ID: R6141			RunNo: 6141				
Prep Date:			Analysis Date: 10/10/2012			SeqNo: 176939		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Beryllium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Iron	ND	0.020								
Manganese	ND	0.0020								
Nickel	ND	0.010								
Silver	ND	0.0050								
Vanadium	ND	0.050								

Sample ID	LCS		SampType: LCS			TestCode: EPA Method 200.7: Metals				
Client ID:	LCSW		Batch ID: R6141			RunNo: 6141				
Prep Date:			Analysis Date: 10/10/2012			SeqNo: 176940		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0	98.6	85	115			
Beryllium	0.51	0.0020	0.5000	0	101	85	115			
Cadmium	0.50	0.0020	0.5000	0	100	85	115			
Chromium	0.49	0.0060	0.5000	0	97.3	85	115			
Cobalt	0.48	0.0060	0.5000	0	96.2	85	115			
Iron	0.49	0.020	0.5000	0	98.1	85	115			
Manganese	0.49	0.0020	0.5000	0	97.7	85	115			
Nickel	0.47	0.010	0.5000	0	94.9	85	115			
Silver	0.10	0.0050	0.1000	0	102	85	115			
Vanadium	0.51	0.050	0.5000	0	101	85	115			

Sample ID	1210368-001BMS		SampType: MS			TestCode: EPA Method 200.7: Metals				
Client ID:	BatchQC		Batch ID: R6141			RunNo: 6141				
Prep Date:			Analysis Date: 10/10/2012			SeqNo: 177005		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.51	0.0020	0.5000	0.02430	96.8	70	130			
Beryllium	0.51	0.0020	0.5000	0	102	70	130			
Cadmium	0.49	0.0020	0.5000	0	97.8	70	130			

Sample ID	1210368-001BMSD		SampType: MSD			TestCode: EPA Method 200.7: Metals				
Client ID:	BatchQC		Batch ID: R6141			RunNo: 6141				
Prep Date:			Analysis Date: 10/10/2012			SeqNo: 177006		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.51	0.0020	0.5000	0.02430	97.1	70	130	0.302	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210368-001BMSD			SampType:	MSD		TestCode:	EPA Method 200.7: Metals			
Client ID:	BatchQC			Batch ID:	R6141		RunNo:	6141			
Prep Date:				Analysis Date:	10/10/2012		SeqNo:	177006		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Beryllium	0.52	0.0020	0.5000	0	103	70	130	0.724	20		
Cadmium	0.50	0.0020	0.5000	0	99.0	70	130	1.24	20		

Sample ID	MB-4223	SampType: MBLK			TestCode: EPA Method 200.7: Metals					
Client ID:	PBW	Batch ID: 4223			RunNo: 6141					
Prep Date:	10/10/2012	Analysis Date: 10/10/2012			SeqNo: 177028		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Beryllium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Iron	ND	0.020								
Manganese	ND	0.0020								
Nickel	ND	0.010								
Silver	ND	0.0050								
Vanadium	ND	0.050								
Zinc	ND	0.010								

Sample ID	LCS-4223		SampType: LCS		TestCode: EPA Method 200.7: Metals					
Client ID:	LCSW		Batch ID: 4223		RunNo: 6141					
Prep Date:	10/10/2012		Analysis Date: 10/10/2012		SeqNo: 177029		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0	99.0	85	115			
Beryllium	0.52	0.0020	0.5000	0	104	85	115			
Cadmium	0.51	0.0020	0.5000	0	102	85	115			
Chromium	0.49	0.0060	0.5000	0	98.2	85	115			
Cobalt	0.49	0.0060	0.5000	0	97.1	85	115			
Iron	0.50	0.020	0.5000	0	100	85	115			
Manganese	0.49	0.0020	0.5000	0	98.3	85	115			
Nickel	0.48	0.010	0.5000	0	96.2	85	115			
Silver	0.10	0.0050	0.1000	0	103	85	115			
Vanadium	0.51	0.050	0.5000	0	102	85	115			
Zinc	0.49	0.010	0.5000	0	97.9	85	115			

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 200.7: Metals					
Client ID:	PBW	Batch ID: R6212			RunNo: 6212					
Prep Date:		Analysis Date: 10/12/2012			SeqNo: 178907		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB		SampType: MBLK		TestCode: EPA Method 200.7: Metals					
Client ID:	PBW		Batch ID: R6212		RunNo: 6212					
Prep Date:			Analysis Date: 10/12/2012		SeqNo: 178907		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Zinc	ND	0.010								

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 200.7: Metals					
Client ID:	LCSW		Batch ID: R6212		RunNo: 6212					
Prep Date:			Analysis Date: 10/12/2012		SeqNo: 178908		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Zinc	0.51	0.010	0.5000	0	101	85	115			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4223		SampType:	MBLK		TestCode:	EPA 200.8: Metals			
Client ID:	PBW		Batch ID:	4223		RunNo:	6249			
Prep Date:	10/10/2012		Analysis Date:	10/15/2012		SeqNo:	179959		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0025								
Arsenic	ND	0.0025								
Lead	ND	0.0025								
Selenium	ND	0.0025								

Sample ID	1210046-001AMS		SampType:	MS		TestCode:	EPA 200.8: Metals			
Client ID:	BatchQC		Batch ID:	R6315		RunNo:	6315			
Prep Date:			Analysis Date:	10/17/2012		SeqNo:	181878		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.027	0.0010	0.02500	0.001891	99.5	70	130			

Sample ID	1210367-001BMS		SampType:	MS		TestCode:	EPA 200.8: Metals			
Client ID:	BatchQC		Batch ID:	R6315		RunNo:	6315			
Prep Date:			Analysis Date:	10/17/2012		SeqNo:	181885		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.025	0.0010	0.02500	0	98.6	70	130			
Arsenic	0.035	0.0010	0.02500	0.01018	101	70	130			
Selenium	0.031	0.0010	0.02500	0.005490	104	70	130			

Sample ID	LCS		SampType:	LCS		TestCode:	EPA 200.8: Metals			
Client ID:	LCSW		Batch ID:	R6315		RunNo:	6315			
Prep Date:			Analysis Date:	10/17/2012		SeqNo:	181905		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.025	0.0010	0.02500	0	101	85	115			
Arsenic	0.026	0.0010	0.02500	0	102	85	115			
Lead	0.025	0.0010	0.02500	0	99.9	85	115			
Selenium	0.026	0.0010	0.02500	0	106	85	115			

Sample ID	LCS		SampType:	LCS		TestCode:	EPA 200.8: Metals			
Client ID:	LCSW		Batch ID:	R6315		RunNo:	6315			
Prep Date:			Analysis Date:	10/17/2012		SeqNo:	181906		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.025	0.0010	0.02500	0	101	85	115			
Arsenic	0.026	0.0010	0.02500	0	102	85	115			
Lead	0.025	0.0010	0.02500	0	99.6	85	115			
Selenium	0.027	0.0010	0.02500	0	106	85	115			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	LCS			SampType: LCS		TestCode: EPA 200.8: Metals				
Client ID:	LCSW			Batch ID: R6315		RunNo: 6315				
Prep Date:				Analysis Date: 10/17/2012		SeqNo: 181907		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.024	0.0010	0.02500	0	96.7	85	115			
Arsenic	0.025	0.0010	0.02500	0	101	85	115			
Lead	0.025	0.0010	0.02500	0	100	85	115			
Selenium	0.026	0.0010	0.02500	0	106	85	115			

Sample ID	MB	SampType: MBLK			TestCode: EPA 200.8: Metals					
Client ID:	PBW	Batch ID: R6315			RunNo: 6315					
Prep Date:		Analysis Date: 10/17/2012			SeqNo: 181909		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID	MB	SampType: MBLK			TestCode: EPA 200.8: Metals					
Client ID:	PBW	Batch ID: R6315			RunNo: 6315					
Prep Date:		Analysis Date: 10/17/2012			SeqNo: 181910		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID	MB	SampType: MBLK			TestCode: EPA 200.8: Metals					
Client ID:	PBW	Batch ID: R6315			RunNo: 6315					
Prep Date:		Analysis Date: 10/17/2012			SeqNo: 181911		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID	1210585-001CMS		SampType: MS		TestCode: EPA 200.8: Metals					
Client ID:	BatchQC		Batch ID: R6315		RunNo: 6315					
Prep Date:			Analysis Date: 10/17/2012		SeqNo: 181948		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.026	0.0010	0.02500	0	103	70	130			
Arsenic	0.026	0.0010	0.02500	0	102	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup**Project:** SWMU NO.1

Sample ID	1210585-001CMS	SampType:	MS	TestCode:	EPA 200.8: Metals					
Client ID:	BatchQC	Batch ID:	R6315	RunNo:	6315					
Prep Date:		Analysis Date:	10/17/2012	SeqNo:	181948	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.025	0.0010	0.02500	0	99.7	70	130			
Selenium	0.026	0.0010	0.02500	0	105	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4279		SampType: MBLK		TestCode: EPA Method 245.1: Mercury					
Client ID:	PBW		Batch ID: 4279		RunNo: 6215					
Prep Date:	10/12/2012		Analysis Date: 10/12/2012		SeqNo: 179065		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercurv	ND	0.00020								

Sample ID	LCS-4279		SampType: LCS		TestCode: EPA Method 245.1: Mercury					
Client ID:	LCSW		Batch ID: 4279		RunNo: 6215					
Prep Date:	10/12/2012		Analysis Date: 10/12/2012		SeqNo: 179066		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	97.0	80	120			

Sample ID	1210332-010EMS		SampType: MS		TestCode: EPA Method 245.1: Mercury					
Client ID:	BatchQC		Batch ID: 4279		RunNo: 6215					
Prep Date:	10/12/2012		Analysis Date: 10/12/2012		SeqNo: 179069		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0048	0.00020	0.005000	0	96.9	75	125			

Sample ID	1210332-010EMSD			SampType:	MSD		TestCode:	EPA Method 245.1: Mercury			
Client ID:	BatchQC			Batch ID:	4279		RunNo:	6215			
Prep Date:	10/12/2012			Analysis Date:	10/12/2012		SeqNo:	179072		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Mercury	0.0049	0.00020	0.005000	0	97.7	75	125	0.749	20		

Sample ID	MB-4303		SampType: mblk		TestCode: EPA Method 245.1: Mercury					
Client ID:	PBW		Batch ID: 4303		RunNo: 6268					
Prep Date:	10/15/2012		Analysis Date: 10/15/2012		SeqNo: 180618		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-4303		SampType: Ics		TestCode: EPA Method 245.1: Mercury					
Client ID:	LCSW		Batch ID: 4303		RunNo: 6268					
Prep Date:	10/15/2012		Analysis Date: 10/15/2012		SeqNo: 180619		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0048	0.00020	0.005000	0	95.8	80	120			

Sample ID	1210352-007BMS		SampType: ms		TestCode: EPA Method 245.1: Mercury					
Client ID:	BatchQC		Batch ID: 4303		RunNo: 6268					
Prep Date:	10/15/2012		Analysis Date: 10/15/2012		SeqNo: 180639		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0047	0.00020	0.005000	0	93.6	75	125			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210352-007BMSD	SampType:	msd	TestCode:	EPA Method 245.1: Mercury					
Client ID:	BatchQC	Batch ID:	4303	RunNo:	6268					
Prep Date:	10/15/2012	Analysis Date:	10/15/2012	SeqNo:	180642	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0047	0.00020	0.005000	0	94.2	75	125	0.680	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID: R5979			RunNo: 5979					
Prep Date:		Analysis Date: 10/4/2012			SeqNo: 172224		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSW		Batch ID: R5979		RunNo: 5979					
Prep Date:			Analysis Date: 10/4/2012		SeqNo: 172225		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.52	0.10	0.5000	0	103	90	110			
Chloride	5.0	0.50	5.000	0	99.2	90	110			
Sulfate	9.2	0.50	10.00	0	91.9	90	110			

Sample ID	1210279-013GMS		SampType: MS		TestCode: EPA Method 300.0: Anions					
Client ID:	EB100212		Batch ID: R5979		RunNo: 5979					
Prep Date:			Analysis Date: 10/4/2012		SeqNo: 172240		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.50	0.10	0.5000	0	100	76.6	110			
Chloride	4.7	0.50	5.000	0	94.0	87.8	111			

Sample ID	1210279-013GMSD		SampType: MSD		TestCode: EPA Method 300.0: Anions					
Client ID:	EB100212		Batch ID: R5979		RunNo: 5979					
Prep Date:			Analysis Date: 10/4/2012		SeqNo: 172241		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.50	0.10	0.5000	0	101	76.6	110	0.119	20	
Chloride	4.7	0.50	5.000	0	93.6	87.8	111	0.433	20	

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID: R5996			RunNo: 5996					
Prep Date:		Analysis Date: 10/4/2012			SeqNo: 172794		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Sulfate	ND	0.50								

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSW		Batch ID: R5996		RunNo: 5996					
Prep Date:			Analysis Date: 10/4/2012		SeqNo: 172795		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSW		Batch ID: R5996		RunNo: 5996					
Prep Date:			Analysis Date: 10/4/2012		SeqNo: 172795		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.48	0.10	0.5000	0	96.0	90	110			
Sulfate	9.7	0.50	10.00	0	96.6	90	110			

Sample ID	1210285-001EMS		SampType: MS		TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC		Batch ID: R5996		RunNo: 5996					
Prep Date:			Analysis Date: 10/4/2012		SeqNo: 172807		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.77	0.10	0.5000	0	155	76.6	110			S

Sample ID	1210285-001EMSD		SampType: MSD		TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC		Batch ID: R5996		RunNo: 5996					
Prep Date:			Analysis Date: 10/4/2012		SeqNo: 172808		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.78	0.10	0.5000	0	155	76.6	110	0.271	20	S

Sample ID	1210300-001BMS		SampType: MS		TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC		Batch ID: R5996		RunNo: 5996					
Prep Date:			Analysis Date: 10/4/2012		SeqNo: 172812		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	15	0.50	10.00	8.924	62.0	84.6	122			S

Sample ID	1210300-001BMSD			SampType:	MSD		TestCode:	EPA Method 300.0: Anions			
Client ID:	BatchQC			Batch ID:	R5996		RunNo:	5996			
Prep Date:				Analysis Date:	10/4/2012		SeqNo:	172813		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Sulfate	15	0.50	10.00	8.924	62.3	84.6	122	0.201	20	S	

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID: R5996			RunNo: 5996					
Prep Date:		Analysis Date: 10/5/2012			SeqNo: 172858		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Sulfate	ND	0.50								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSW		Batch ID: R5996		RunNo: 5996					
Prep Date:			Analysis Date: 10/5/2012		SeqNo: 172859		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51	0.10	0.5000	0	102	90	110			
Sulfate	9.8	0.50	10.00	0	97.9	90	110			

Sample ID	1210301-001AMS		SampType: MS			TestCode: EPA Method 300.0: Anions				
Client ID:	BatchQC		Batch ID: R5996			RunNo: 5996				
Prep Date:			Analysis Date: 10/5/2012			SeqNo: 172863		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.4	0.10	0.5000	0.8809	97.3	76.6	110			

Sample ID	1210301-001AMSD		SampType: MSD		TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC		Batch ID: R5996		RunNo: 5996					
Prep Date:			Analysis Date: 10/5/2012		SeqNo: 172864		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.4	0.10	0.5000	0.8809	97.0	76.6	110	0.110	20	

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID: R6149			RunNo: 6149					
Prep Date:		Analysis Date: 10/10/2012			SeqNo: 177130		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS		SampType: LCS			TestCode: EPA Method 300.0: Anions				
Client ID:	LCSW		Batch ID: R6149			RunNo: 6149				
Prep Date:			Analysis Date: 10/10/2012			SeqNo: 177131		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	98.3	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210279-012CMS	SampType:	MS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	SWMU 1-3 (19.5-20')	Batch ID:	4138	RunNo:	6027					
Prep Date:	10/5/2012	Analysis Date:	10/7/2012	SeqNo:	173631	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	51.28	0	80.5	57.2	146			
Surr: DNOP	4.1		5.128		79.6	77.6	140			

Sample ID	1210279-012CMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	SWMU 1-3 (19.5-20')	Batch ID:	4138	RunNo:	6027					
Prep Date:	10/5/2012	Analysis Date:	10/7/2012	SeqNo:	173633	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	10	50.97	0	77.2	57.2	146	4.84	24.5	
Surr: DNOP	4.0		5.097		77.7	77.6	140	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4137		SampType: MBLK		TestCode: EPA Method 8015B: Diesel Range					
Client ID:	PBW		Batch ID: 4137		RunNo: 6039					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 174081		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.1		1.000		108	79.5	166			

Sample ID	LCS-4137		SampType: LCS		TestCode: EPA Method 8015B: Diesel Range					
Client ID:	LCSW		Batch ID: 4137		RunNo: 6039					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 174082		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.2	1.0	5.000	0	104	74	157			
Surr: DNOP	0.45		0.5000		90.2	79.5	166			

Sample ID	LCSD-4137		SampType: LCSD		TestCode: EPA Method 8015B: Diesel Range					
Client ID:	LCSS02		Batch ID: 4137		RunNo: 6039					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 174083		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.5	1.0	5.000	0	109	74	157	5.45	23	
Surr: DNOP	0.45		0.5000		90.8	79.5	166	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4015		SampType: MBLK		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	PBS		Batch ID: 4015		RunNo: 6019					
Prep Date:	10/1/2012		Analysis Date: 10/5/2012		SeqNo: 173412		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		100	84	116			

Sample ID	LCS-4015		SampType: LCS		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	LCSS		Batch ID: 4015		RunNo: 6019					
Prep Date:	10/1/2012		Analysis Date: 10/5/2012		SeqNo: 173413		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	74	117			
Surr: BFB	1000		1000		103	84	116			

Sample ID	1210002-001AMS		SampType: MS		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC		Batch ID: 4015		RunNo: 6019					
Prep Date:	10/1/2012		Analysis Date: 10/5/2012		SeqNo: 173418		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.61	0	106	70	130			
Surr: BFB	1100		984.3		108	84	116			

Sample ID	1210002-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015B: Gasoline Range				
Client ID:	BatchQC		Batch ID:	4015		RunNo:	6019				
Prep Date:	10/1/2012		Analysis Date:	10/5/2012		SeqNo:	173419		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	24	4.9	24.61	0	97.4	70	130	8.23	22.1		
Surr: BFB	1100		984.3		110	84	116	0	0		

Sample ID	5ML RB	SampType: MBLK			TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID: R6020			RunNo: 6020					
Prep Date:		Analysis Date: 10/5/2012			SeqNo: 173460		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	84	116			

Sample ID	2.5UG GRO LCS		SampType: LCS		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	LCSS		Batch ID: R6020		RunNo: 6020					
Prep Date:			Analysis Date: 10/5/2012		SeqNo: 173461		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.0	74	117			
Surr: BFB	820		1000		82.5	84	116			S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210279-011BMS		SampType: MS		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	SWMU 1-3 (18.5-19.		Batch ID: R6020		RunNo: 6020					
Prep Date:			Analysis Date: 10/6/2012		SeqNo: 173465		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	12	5.0	15.46	0	78.9	70	130			
Surr: BFB	670		618.5		108	84	116			

Sample ID	1210279-011BMSD		SampType: MSD		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	SWMU 1-3 (18.5-19.		Batch ID: R6020		RunNo: 6020					
Prep Date:			Analysis Date: 10/6/2012		SeqNo: 173466		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	14	5.0	15.46	0	90.8	70	130	14.0	22.1	
Surr: BFB	650		618.5		105	84	116	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBW	Batch ID:	R6020	RunNo:	6020					
Prep Date:		Analysis Date:	10/5/2012	SeqNo:	173451	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	21		20.00		104	69.8	119			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	5ml-rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBS	Batch ID: R6144			RunNo: 6144					
Prep Date:		Analysis Date: 10/10/2012			SeqNo: 177071		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
1-Methylnaphthalene	ND	0.20								
2-Methylnaphthalene	ND	0.20								
Acetone	ND	0.75								
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.10								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.10								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.10								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	5ml-rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBS	Batch ID: R6144			RunNo: 6144					
Prep Date:		Analysis Date: 10/10/2012			SeqNo: 177071		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	ND	0.15								
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.2	70	130			
Surr: 4-Bromofluorobenzene	0.39		0.5000		78.8	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		107	70	130			
Surr: Toluene-d8	0.42		0.5000		84.4	70	130			

Sample ID	100ng lcs	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	LCSS	Batch ID: R6144			RunNo: 6144					
Prep Date:		Analysis Date: 10/10/2012			SeqNo: 177073		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.050	1.000	0	99.1	70	130			
Toluene	0.98	0.050	1.000	0	98.5	80	120			
Chlorobenzene	0.93	0.050	1.000	0	92.7	70	130			
1,1-Dichloroethene	1.0	0.050	1.000	0	104	74	124			
Trichloroethene (TCE)	0.92	0.050	1.000	0	92.3	70	130			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.2	70	130			
Surr: 4-Bromofluorobenzene	0.40		0.5000		79.4	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	100ng lcs		SampType:	LCS		TestCode:	EPA Method 8260B: VOLATILES			
Client ID:	LCSS		Batch ID:	R6144		RunNo:	6144			
Prep Date:			Analysis Date:	10/10/2012		SeqNo:	177073		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.55		0.5000		110	70	130			
Surr: Toluene-d8	0.42		0.5000		83.9	70	130			

Sample ID	1210279-001B MS		SampType:	MS		TestCode:	EPA Method 8260B: VOLATILES			
Client ID:	SWMU 1-2 (6-8')		Batch ID:	R6144		RunNo:	6144			
Prep Date:			Analysis Date:	10/10/2012		SeqNo:	177076		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.67	0.050	0.6719	0	99.5	80.9	118			
Toluene	0.57	0.050	0.6719	0	84.7	69.5	119			
Chlorobenzene	0.60	0.050	0.6719	0	89.8	75.7	115			
1,1-Dichloroethene	0.68	0.050	0.6719	0	101	68.6	126			
Trichloroethene (TCE)	0.65	0.050	0.6719	0	97.0	68.7	115			
Surr: 1,2-Dichloroethane-d4	0.29		0.3360		87.7	70	130			
Surr: 4-Bromofluorobenzene	0.26		0.3360		78.3	70	130			
Surr: Dibromofluoromethane	0.35		0.3360		103	70	130			
Surr: Toluene-d8	0.25		0.3360		74.4	70	130			

Sample ID	1210279-001B MSD		SampType:	MSD		TestCode:	EPA Method 8260B: VOLATILES			
Client ID:	SWMU 1-2 (6-8')		Batch ID:	R6144		RunNo:	6144			
Prep Date:			Analysis Date:	10/10/2012		SeqNo:	177077		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.68	0.050	0.6719	0	101	80.9	118	1.54	20	
Toluene	0.58	0.050	0.6719	0	85.9	69.5	119	1.42	20	
Chlorobenzene	0.63	0.050	0.6719	0	93.1	75.7	115	3.54	20	
1,1-Dichloroethene	0.68	0.050	0.6719	0	101	68.6	126	0.179	24.8	
Trichloroethene (TCE)	0.65	0.050	0.6719	0	97.2	68.7	115	0.171	20	
Surr: 1,2-Dichloroethane-d4	0.30		0.3360		89.5	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.25		0.3360		73.6	70	130	0	0	
Surr: Dibromofluoromethane	0.39		0.3360		117	70	130	0	0	
Surr: Toluene-d8	0.24		0.3360		72.6	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4139		SampType: MBLK		TestCode: Method 8260B/5035LOW: VOLATILES					
Client ID:	PBS		Batch ID: 4139		RunNo: 6123					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 176473		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00100								
Toluene	ND	0.00100								
Ethylbenzene	ND	0.00100								
Xylenes, Total	ND	0.00200								
Methyl tert-butyl ether (MTBE)	ND	0.00100								
1,2,4-Trimethylbenzene	ND	0.00100								
1,3,5-Trimethylbenzene	ND	0.00100								
1,2-Dichloroethane (EDC)	ND	0.00100								
1,2-Dibromoethane (EDB)	ND	0.00100								
Naphthalene	ND	0.00200								
1-Methylnaphthalene	ND	0.00400								
2-Methylnaphthalene	ND	0.00400								
Acetone	ND	0.0100								
Bromobenzene	ND	0.00100								
Bromodichloromethane	ND	0.00100								
Bromoform	ND	0.00100								
Bromomethane	ND	0.00100								
2-Butanone	ND	0.0100								
Carbon tetrachloride	ND	0.00100								
Chlorobenzene	ND	0.00100								
Chloroethane	ND	0.00100								
Chloroform	ND	0.00100								
Chloromethane	ND	0.00100								
2-Chlorotoluene	ND	0.00100								
Carbon disulfide	ND	0.0100								
4-Chlorotoluene	ND	0.00100								
cis-1,2-DCE	ND	0.00100								
cis-1,3-Dichloropropene	ND	0.00100								
1,2-Dibromo-3-chloropropane	ND	0.00100								
Dibromochloromethane	ND	0.00100								
Dibromomethane	ND	0.00100								
1,2-Dichlorobenzene	ND	0.00100								
1,3-Dichlorobenzene	ND	0.00100								
1,4-Dichlorobenzene	ND	0.00100								
Dichlorodifluoromethane	ND	0.00100								
1,1-Dichloroethane	ND	0.00100								
1,1-Dichloroethene	ND	0.00100								
1,2-Dichloropropane	ND	0.00100								
1,3-Dichloropropane	ND	0.00100								
2,2-Dichloropropane	ND	0.00100								
1,1-Dichloropropene	ND	0.00100								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4139		SampType: MBLK		TestCode: Method 8260B/5035LOW: VOLATILES					
Client ID:	PBS		Batch ID: 4139		RunNo: 6123					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 176473		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.00100								
Isopropylbenzene	ND	0.00100								
4-Isopropyltoluene	ND	0.00100								
Methylene chloride	ND	0.00300								
n-Butylbenzene	ND	0.00100								
2-Hexanone	ND	0.0100								
n-Propylbenzene	ND	0.00100								
sec-Butylbenzene	ND	0.00100								
Styrene	ND	0.00100								
4-Methyl-2-pentanone	ND	0.0100								
tert-Butylbenzene	ND	0.00100								
1,1,1,2-Tetrachloroethane	ND	0.00100								
1,1,2,2-Tetrachloroethane	ND	0.00100								
Tetrachloroethene (PCE)	ND	0.00100								
trans-1,2-DCE	ND	0.00100								
trans-1,3-Dichloropropene	ND	0.00100								
1,2,3-Trichlorobenzene	ND	0.00100								
1,2,4-Trichlorobenzene	ND	0.00100								
1,1,1-Trichloroethane	ND	0.00100								
1,1,2-Trichloroethane	ND	0.00100								
Trichloroethene (TCE)	ND	0.00100								
Trichlorofluoromethane	ND	0.00100								
1,2,3-Trichloropropane	ND	0.00100								
Vinyl chloride	ND	0.00100								
Surr: 1,2-Dichloroethane-d4	43.5		50.00		86.9	70	130			
Surr: 4-Bromofluorobenzene	48.2		50.00		96.4	70	130			
Surr: Dibromofluoromethane	51.1		50.00		102	70	130			
Surr: Toluene-d8	48.6		50.00		97.1	70	130			

Sample ID	lcs-4139		SampType: LCS		TestCode: Method 8260B/5035LOW: VOLATILES					
Client ID:	LCSS		Batch ID: 4139		RunNo: 6123					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 176475		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	10.6	1.00	10.00	0	106	60	140			
Toluene	9.55	1.00	10.00	0	95.5	60	140			
Chlorobenzene	9.91	1.00	10.00	0	99.1	60	140			
1,1-Dichloroethene	11.6	1.00	10.00	0	116	60	140			
Trichloroethene (TCE)	9.40	1.00	10.00	0	94.0	60	140			
Surr: 1,2-Dichloroethane-d4	45.7		50.00		91.3	70	130			
Surr: 4-Bromofluorobenzene	39.6		50.00		79.3	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	lcs-4139		SampType: LCS		TestCode: Method 8260B/5035LOW: VOLATILES					
Client ID:	LCSS		Batch ID: 4139		RunNo: 6123					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 176475		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	49.3		50.00		98.5	70	130			
Surr: Toluene-d8	47.1		50.00		94.2	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	5ml rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID: R5993			RunNo: 5993					
Prep Date:		Analysis Date: 10/4/2012			SeqNo: 172673		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	5ml rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID: R5993			RunNo: 5993					
Prep Date:		Analysis Date: 10/4/2012			SeqNo: 172673		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		99.6	70	130			
Surr: 4-Bromofluorobenzene	9.3		10.00		93.4	70	130			
Surr: Dibromofluoromethane	9.5		10.00		95.1	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Sample ID	100ng lcs	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID: R5993			RunNo: 5993					
Prep Date:		Analysis Date: 10/4/2012			SeqNo: 172697		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.9	70	130			
Toluene	22	1.0	20.00	0	112	80	120			
Chlorobenzene	21	1.0	20.00	0	103	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	101	73.7	122			
Trichloroethene (TCE)	22	1.0	20.00	0	108	70	130			
Surr: 1,2-Dichloroethane-d4	9.0		10.00		89.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	100ng lcs	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID: R5993			RunNo: 5993					
Prep Date:		Analysis Date: 10/4/2012			SeqNo: 172697		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	9.6		10.00		95.7	70	130			
Surr: Toluene-d8	10		10.00		99.5	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4140	SampType:	MBLK	TestCode:	EPA Method 8270C: Semivolatiles					
Client ID:	PBS	Batch ID:	4140	RunNo:	6106					
Prep Date:	10/5/2012	Analysis Date:	10/9/2012	SeqNo:	176018	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Azobenzene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Benzoic acid	ND	0.50								
Benzyl alcohol	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	ND	0.50								
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	ND	0.50								
Di-n-octyl phthalate	ND	0.25								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3'-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.40								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4140		SampType:	MBLK		TestCode:	EPA Method 8270C: Semivolatiles			
Client ID:	PBS		Batch ID:	4140		RunNo:	6106			
Prep Date:	10/5/2012		Analysis Date:	10/9/2012		SeqNo:	176018		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoranthene	ND	0.20								
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
1-Methylnaphthalene	ND	0.20								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2,4,6-Tribromophenol	2.3		3.330		68.7	21.3	145			
Surr: 2-Fluorobiphenyl	0.94		1.670		56.2	20	131			
Surr: 2-Fluorophenol	2.0		3.330		59.6	11.9	130			
Surr: 4-Terphenyl-d14	0.96		1.670		57.5	25.1	149			
Surr: Nitrobenzene-d5	1.0		1.670		59.9	25.6	137			
Surr: Phenol-d5	2.1		3.330		62.9	20.3	132			

Sample ID	lcs-4140		SampType:	LCS		TestCode:	EPA Method 8270C: Semivolatiles			
Client ID:	LCSS		Batch ID:	4140		RunNo:	6106			
Prep Date:	10/5/2012		Analysis Date:	10/9/2012		SeqNo:	176019		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	Ics-4140	SampType: LCS			TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	LCSS	Batch ID: 4140			RunNo: 6106					
Prep Date:	10/5/2012	Analysis Date: 10/9/2012			SeqNo: 176019		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.99	0.20	1.670	0	59.5	49.7	98.1			
4-Chloro-3-methylphenol	2.2	0.50	3.330	0	65.1	43.8	89.1			
2-Chlorophenol	1.9	0.20	3.330	0	57.0	41.1	96.9			
1,4-Dichlorobenzene	0.91	0.20	1.670	0	54.6	41	97.4			
2,4-Dinitrotoluene	1.2	0.50	1.670	0	70.7	44.4	104			
N-Nitrosodi-n-propylamine	1.1	0.20	1.670	0	65.0	39.1	86.9			
4-Nitrophenol	2.1	0.25	3.330	0	62.6	44.2	107			
Pentachlorophenol	1.5	0.40	3.330	0	44.9	36.2	80			
Phenol	2.0	0.20	3.330	0	60.0	42.7	92.7			
Pyrene	0.90	0.20	1.670	0	53.9	34.7	98.8			
1,2,4-Trichlorobenzene	0.88	0.20	1.670	0	52.9	37.8	98.3			
Surr: 2,4,6-Tribromophenol	2.5		3.330		74.6	21.3	145			
Surr: 2-Fluorobiphenyl	1.1		1.670		66.2	20	131			
Surr: 2-Fluorophenol	1.9		3.330		55.8	11.9	130			
Surr: 4-Terphenyl-d14	1.1		1.670		64.8	25.1	149			
Surr: Nitrobenzene-d5	1.0		1.670		60.3	25.6	137			
Surr: Phenol-d5	2.1		3.330		63.6	20.3	132			

Sample ID	1210279-012CMS	SampType: MS			TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	SWMU 1-3 (19.5-20')	Batch ID: 4140			RunNo: 6106					
Prep Date:	10/5/2012	Analysis Date: 10/9/2012			SeqNo: 176040		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.3	0.20	1.684	0	76.6	38.6	100			
4-Chloro-3-methylphenol	2.7	0.50	3.358	0	79.2	35.8	108			
2-Chlorophenol	2.4	0.20	3.358	0	72.3	48.2	96.1			
1,4-Dichlorobenzene	1.1	0.20	1.684	0	66.4	42.5	97.6			
2,4-Dinitrotoluene	1.6	0.50	1.684	0	92.4	51.2	108			
N-Nitrosodi-n-propylamine	1.1	0.20	1.684	0	67.5	31.6	114			
4-Nitrophenol	2.8	0.25	3.358	0	82.3	22.7	144			
Pentachlorophenol	2.1	0.40	3.358	0	61.1	24	109			
Phenol	2.6	0.20	3.358	0	76.4	33.1	108			
Pyrene	1.2	0.20	1.684	0	69.2	42.7	98.9			
1,2,4-Trichlorobenzene	1.1	0.20	1.684	0	64.3	27.1	118			
Surr: 2,4,6-Tribromophenol	2.9		3.358		86.1	21.3	145			
Surr: 2-Fluorobiphenyl	1.2		1.684		73.8	20	131			
Surr: 2-Fluorophenol	2.5		3.358		75.3	11.9	130			
Surr: 4-Terphenyl-d14	1.2		1.684		70.1	25.1	149			
Surr: Nitrobenzene-d5	1.2		1.684		73.1	25.6	137			
Surr: Phenol-d5	2.7		3.358		79.5	20.3	132			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210279-012CMSD	SampType:	MSD	TestCode:	EPA Method 8270C: Semivolatiles					
Client ID:	SWMU 1-3 (19.5-20')	Batch ID:	4140	RunNo:	6106					
Prep Date:	10/5/2012	Analysis Date:	10/9/2012	SeqNo:	176041	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.2	0.20	1.667	0	74.1	38.6	100	4.39	20	
4-Chloro-3-methylphenol	2.7	0.50	3.324	0	82.1	35.8	108	2.56	20	
2-Chlorophenol	2.3	0.20	3.324	0	68.8	48.2	96.1	5.93	20	
1,4-Dichlorobenzene	1.0	0.20	1.667	0	62.1	42.5	97.6	7.84	20	
2,4-Dinitrotoluene	1.6	0.50	1.667	0	95.5	51.2	108	2.29	20	
N-Nitrosodi-n-propylamine	1.1	0.20	1.667	0	66.7	31.6	114	2.25	20	
4-Nitrophenol	2.9	0.25	3.324	0	88.4	22.7	144	6.14	20	
Pentachlorophenol	2.1	0.40	3.324	0	64.0	24	109	3.56	20	
Phenol	2.3	0.20	3.324	0	69.6	33.1	108	10.3	20	
Pyrene	1.2	0.20	1.667	0	71.4	42.7	98.9	2.04	20	
1,2,4-Trichlorobenzene	1.1	0.20	1.667	0	66.7	27.1	118	2.65	20	
Surr: 2,4,6-Tribromophenol	3.0		3.324		89.8	21.3	145	0	0	
Surr: 2-Fluorobiphenyl	1.2		1.667		71.8	20	131	0	0	
Surr: 2-Fluorophenol	2.4		3.324		72.3	11.9	130	0	0	
Surr: 4-Terphenyl-d14	1.2		1.667		72.5	25.1	149	0	0	
Surr: Nitrobenzene-d5	1.3		1.667		76.8	25.6	137	0	0	
Surr: Phenol-d5	2.6		3.324		77.9	20.3	132	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4129		SampType: MBLK		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	PBW		Batch ID: 4129		RunNo: 6065					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 174758		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	10								
Acenaphthylene	ND	10								
Aniline	ND	10								
Anthracene	ND	10								
Azobenzene	ND	10								
Benz(a)anthracene	ND	10								
Benzo(a)pyrene	ND	10								
Benzo(b)fluoranthene	ND	10								
Benzo(g,h,i)perylene	ND	10								
Benzo(k)fluoranthene	ND	10								
Benzoic acid	ND	20								
Benzyl alcohol	ND	10								
Bis(2-chloroethoxy)methane	ND	10								
Bis(2-chloroethyl)ether	ND	10								
Bis(2-chloroisopropyl)ether	ND	10								
Bis(2-ethylhexyl)phthalate	ND	10								
4-Bromophenyl phenyl ether	ND	10								
Butyl benzyl phthalate	ND	10								
Carbazole	ND	10								
4-Chloro-3-methylphenol	ND	10								
4-Chloroaniline	ND	10								
2-Chloronaphthalene	ND	10								
2-Chlorophenol	ND	10								
4-Chlorophenyl phenyl ether	ND	10								
Chrysene	ND	10								
Di-n-butyl phthalate	ND	10								
Di-n-octyl phthalate	ND	10								
Dibenz(a,h)anthracene	ND	10								
Dibenzofuran	ND	10								
1,2-Dichlorobenzene	ND	10								
1,3-Dichlorobenzene	ND	10								
1,4-Dichlorobenzene	ND	10								
3,3'-Dichlorobenzidine	ND	10								
Diethyl phthalate	ND	10								
Dimethyl phthalate	ND	10								
2,4-Dichlorophenol	ND	20								
2,4-Dimethylphenol	ND	10								
4,6-Dinitro-2-methylphenol	ND	20								
2,4-Dinitrophenol	ND	20								
2,4-Dinitrotoluene	ND	10								
2,6-Dinitrotoluene	ND	10								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4129		SampType: MBLK			TestCode: EPA Method 8270C: Semivolatiles				
Client ID:	PBW		Batch ID: 4129			RunNo: 6065				
Prep Date:	10/5/2012		Analysis Date: 10/8/2012			SeqNo: 174758		Units: µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoranthene	ND	10								
Fluorene	ND	10								
Hexachlorobenzene	ND	10								
Hexachlorobutadiene	ND	10								
Hexachlorocyclopentadiene	ND	10								
Hexachloroethane	ND	10								
Indeno(1,2,3-cd)pyrene	ND	10								
Isophorone	ND	10								
1-Methylnaphthalene	ND	10								
2-Methylnaphthalene	ND	10								
2-Methylphenol	ND	10								
3+4-Methylphenol	ND	10								
N-Nitrosodi-n-propylamine	ND	10								
N-Nitrosodimethylamine	ND	10								
N-Nitrosodiphenylamine	ND	10								
Naphthalene	ND	10								
2-Nitroaniline	ND	10								
3-Nitroaniline	ND	10								
4-Nitroaniline	ND	10								
Nitrobenzene	ND	10								
2-Nitrophenol	ND	10								
4-Nitrophenol	ND	10								
Pentachlorophenol	ND	20								
Phenanthrene	ND	10								
Phenol	ND	10								
Pyrene	ND	10								
Pyridine	ND	10								
1,2,4-Trichlorobenzene	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
Surr: 2,4,6-Tribromophenol	180		200.0		88.6	44.2	126			
Surr: 2-Fluorobiphenyl	74		100.0		73.9	37	114			
Surr: 2-Fluorophenol	140		200.0		70.6	23.4	98			
Surr: 4-Terphenyl-d14	77		100.0		76.8	41.3	116			
Surr: Nitrobenzene-d5	90		100.0		89.6	39.5	118			
Surr: Phenol-d5	110		200.0		54.8	20.9	95.9			

Qualifiers:

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P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	Ics-4129	SampType: LCS			TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	LCSW	Batch ID: 4129			RunNo: 6065					
Prep Date:	10/5/2012	Analysis Date: 10/8/2012			SeqNo: 174759		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	69	10	100.0	0	68.6	38.2	99.4			
4-Chloro-3-methylphenol	170	10	200.0	0	82.8	35.5	108			
2-Chlorophenol	150	10	200.0	0	75.2	29.8	106			
1,4-Dichlorobenzene	59	10	100.0	0	58.6	32.6	91.5			
2,4-Dinitrotoluene	87	10	100.0	0	87.2	44.7	112			
N-Nitrosodi-n-propylamine	74	10	100.0	0	73.7	38.5	105			
4-Nitrophenol	95	10	200.0	0	47.3	11.6	73.1			
Pentachlorophenol	110	20	200.0	0	55.9	20.2	93			
Phenol	96	10	200.0	0	48.1	23	66.1			
Pyrene	67	10	100.0	0	67.3	40.1	101			
1,2,4-Trichlorobenzene	63	10	100.0	0	63.3	37.7	99.1			
Surr: 2,4,6-Tribromophenol	180		200.0		88.8	44.2	126			
Surr: 2-Fluorobiphenyl	65		100.0		65.2	37	114			
Surr: 2-Fluorophenol	120		200.0		61.3	23.4	98			
Surr: 4-Terphenyl-d14	69		100.0		68.7	41.3	116			
Surr: Nitrobenzene-d5	78		100.0		78.2	39.5	118			
Surr: Phenol-d5	110		200.0		52.5	20.9	95.9			

Sample ID	Icsd-4129		SampType: LCSD			TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	LCSS02		Batch ID: 4129			RunNo: 6065					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012			SeqNo: 174760		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Acenaphthene	70	10	100.0	0	70.5	38.2	99.4	2.79	20		
4-Chloro-3-methylphenol	170	10	200.0	0	85.2	35.5	108	2.83	20		
2-Chlorophenol	150	10	200.0	0	74.9	29.8	106	0.386	20		
1,4-Dichlorobenzene	60	10	100.0	0	59.7	32.6	91.5	1.93	20		
2,4-Dinitrotoluene	91	10	100.0	0	91.1	44.7	112	4.31	20		
N-Nitrosodi-n-propylamine	75	10	100.0	0	74.7	38.5	105	1.27	20		
4-Nitrophenol	100	10	200.0	0	50.7	11.6	73.1	6.98	20		
Pentachlorophenol	110	20	200.0	0	55.9	20.2	93	0.0536	20		
Phenol	89	10	200.0	0	44.7	23	66.1	7.41	20		
Pyrene	74	10	100.0	0	74.0	40.1	101	9.37	20		
1,2,4-Trichlorobenzene	64	10	100.0	0	63.9	37.7	99.1	0.943	20		
Surr: 2,4,6-Tribromophenol	170		200.0		84.4	44.2	126	0	0		
Surr: 2-Fluorobiphenyl	65		100.0		65.0	37	114	0	0		
Surr: 2-Fluorophenol	110		200.0		55.6	23.4	98	0	0		
Surr: 4-Terphenyl-d14	75		100.0		75.1	41.3	116	0	0		
Surr: Nitrobenzene-d5	76		100.0		76.1	39.5	118	0	0		
Surr: Phenol-d5	94		200.0		47.1	20.9	95.9	0	0		

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4086		SampType: MBLK		TestCode: EPA Method 7471: Mercury					
Client ID:	PBS		Batch ID: 4086		RunNo: 6082					
Prep Date:	10/8/2012		Analysis Date: 10/9/2012		SeqNo: 175476		Units: mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercurv	ND	0.033								

Sample ID	LCS-4086		SampType: LCS		TestCode: EPA Method 7471: Mercury					
Client ID:	LCSS		Batch ID: 4086		RunNo: 6082					
Prep Date:	10/8/2012		Analysis Date: 10/9/2012		SeqNo: 175477		Units: mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.17	0.033	0.1667	0	104	80	120			

Sample ID	1210279-008CMS		SampType: MS		TestCode: EPA Method 7471: Mercury					
Client ID:	SWMU 1-3 (2-4')		Batch ID: 4086		RunNo: 6082					
Prep Date:	10/8/2012		Analysis Date: 10/9/2012		SeqNo: 175510		Units: mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.15	0.033	0.1665	0.01287	84.9	75	125			

Sample ID	1210279-008CMSD		SampType: MSD		TestCode: EPA Method 7471: Mercury					
Client ID:	SWMU 1-3 (2-4')		Batch ID: 4086		RunNo: 6082					
Prep Date:	10/8/2012		Analysis Date: 10/9/2012		SeqNo: 175511		Units: mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.15	0.033	0.1686	0.01287	82.8	75	125	1.08	20	

Sample ID	MB-4150		SampType:	MBLK		TestCode:	EPA Method 7471: Mercury				
Client ID:	PBS		Batch ID:	4150		RunNo:	6082				
Prep Date:	10/8/2012		Analysis Date:	10/9/2012		SeqNo:	175512		Units: mg/kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Mercury	ND	0.033									

Sample ID	LCS-4150		SampType: LCS		TestCode: EPA Method 7471: Mercury					
Client ID:	LCSS		Batch ID: 4150		RunNo: 6082					
Prep Date:	10/8/2012		Analysis Date: 10/9/2012		SeqNo: 175513		Units: mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.19	0.033	0.1667	0	117	80	120			

Sample ID	1210332-015CMS		SampType: MS		TestCode: EPA Method 7471: Mercury					
Client ID:	BatchQC		Batch ID: 4150		RunNo: 6082					
Prep Date:	10/8/2012		Analysis Date: 10/9/2012		SeqNo: 175534		Units: mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.18	0.033	0.1635	0	108	75	125			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210332-015CMSD	SampType:	MSD	TestCode:	EPA Method 7471: Mercury						
Client ID:	BatchQC	Batch ID:	4150	RunNo:	6082						
Prep Date:	10/8/2012	Analysis Date:	10/9/2012	SeqNo:	175535	Units:	mg/kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Mercury	0.18	0.033	0.1662	0	108	75	125	1.95	20		

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4300	SampType:	MBLK	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	PBS	Batch ID:	4300	RunNo:	6281					
Prep Date:	10/15/2012	Analysis Date:	10/16/2012	SeqNo:	181006	Units:	mg/Kg			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	2.5								
Arsenic	ND	2.5								
Barium	ND	0.10								
Beryllium	ND	0.15								
Cadmium	ND	0.10								
Chromium	ND	0.30								
Cobalt	ND	0.30								
Lead	ND	0.25								
Manganese	ND	0.10								
Nickel	ND	0.50								
Selenium	ND	2.5								
Silver	ND	0.25								
Vanadium	ND	2.5								
Zinc	ND	2.5								

Sample ID	LCS-4300	SampType:	LCS	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	LCSS	Batch ID:	4300	RunNo:	6281					
Prep Date:	10/15/2012	Analysis Date:	10/16/2012	SeqNo:	181012	Units:	mg/Kg			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	24	2.5	25.00	0.9150	90.4	80	120			
Arsenic	27	2.5	25.00	0	107	80	120			
Barium	25	0.10	25.00	0	101	80	120			
Beryllium	27	0.15	25.00	0	108	80	120			
Cadmium	26	0.10	25.00	0	104	80	120			
Chromium	25	0.30	25.00	0	100	80	120			
Cobalt	25	0.30	25.00	0	100	80	120			
Lead	26	0.25	25.00	0	103	80	120			
Manganese	25	0.10	25.00	0.05000	99.4	80	120			
Nickel	25	0.50	25.00	0	99.0	80	120			
Selenium	26	2.5	25.00	0	105	80	120			
Silver	5.2	0.25	5.000	0	104	80	120			
Vanadium	26	2.5	25.00	0	103	80	120			
Zinc	26	2.5	25.00	0	104	80	120			

Sample ID	MB-4300	SampType:	MBLK	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	PBS	Batch ID:	4300	RunNo:	6310					
Prep Date:	10/15/2012	Analysis Date:	10/17/2012	SeqNo:	181592	Units:	mg/Kg			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	ND	1.0								

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	LCS-4300		SampType: LCS		TestCode: EPA Method 6010B: Soil Metals					
Client ID:	LCSS		Batch ID: 4300		RunNo: 6310					
Prep Date:	10/15/2012		Analysis Date: 10/17/2012		SeqNo: 181593		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	27	1.0	25.00	0	108	80	120			

Sample ID	1210583-001CMS	SampType: MS			TestCode: EPA Method 6010B: Soil Metals					
Client ID:	BatchQC	Batch ID: 4300			RunNo: 6310					
Prep Date:	10/15/2012	Analysis Date: 10/17/2012			SeqNo: 181667		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	25	0.75	24.84	0.8953	96.7	75	125			
Cadmium	22	0.50	24.84	0	90.2	75	125			
Chromium	31	1.5	24.84	12.41	74.0	75	125			S
Cobalt	26	1.5	24.84	5.546	80.5	75	125			
Lead	26	1.3	24.84	5.875	81.9	75	125			
Nickel	29	2.5	24.84	8.319	83.0	75	125			
Silver	4.6	1.3	4.967	0	92.2	75	125			
Vanadium	47	13	24.84	25.45	86.0	75	125			
Zinc	49	13	24.84	33.40	64.7	75	125			S

Sample ID	1210583-001CMSD		SampType: MSD		TestCode: EPA Method 6010B: Soil Metals					
Client ID:	BatchQC		Batch ID: 4300		RunNo: 6310					
Prep Date:	10/15/2012		Analysis Date: 10/17/2012		SeqNo: 181668		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	26	0.75	24.89	0.8953	101	75	125	4.27	20	
Cadmium	23	0.50	24.89	0	94.2	75	125	4.55	20	
Chromium	33	1.5	24.89	12.41	83.0	75	125	7.15	20	
Cobalt	27	1.5	24.89	5.546	85.8	75	125	5.17	20	
Lead	28	1.2	24.89	5.875	87.0	75	125	4.93	20	
Nickel	30	2.5	24.89	8.319	88.6	75	125	4.90	20	
Silver	4.9	1.2	4.978	0	98.0	75	125	6.31	20	
Vanadium	48	12	24.89	25.45	91.4	75	125	2.90	20	
Zinc	58	12	24.89	33.40	98.3	75	125	15.6	20	

Sample ID	1210583-001CMS	SampType: MS			TestCode: EPA Method 6010B: Soil Metals					
Client ID:	BatchQC	Batch ID: 4300			RunNo: 6437					
Prep Date:	10/15/2012	Analysis Date: 10/23/2012			SeqNo: 185157		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	12	24.84	0	30.6	75	125			S
Arsenic	25	12	24.84	0	102	75	125			
Selenium	13	12	24.84	0	53.6	75	125			S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
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- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
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- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210279

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210583-001CMSD	SampType:	MSD	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	BatchQC	Batch ID:	4300	RunNo:	6437					
Prep Date:	10/15/2012	Analysis Date:	10/23/2012	SeqNo:	185160	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	12	24.89	0	34.4	75	125	0	20	S
Arsenic	26	12	24.89	0	105	75	125	3.33	20	
Selenium	16	12	24.89	0	62.7	75	125	16.0	20	S

Qualifiers:

* Value exceeds Maximum Contaminant Level.
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P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Western Refining Gallup Work Order Number: 1210279
Received by/date: mg 10/04/12
Logged By: Ashley Gallegos 10/4/2012 8:00:00 AM AG
Completed By: Ashley Gallegos 10/4/2012 9:13:43 AM AG
Reviewed By: IO 10/04/12

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? FedEx

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☒
10. Was preservative added to bottles? Yes ☒ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

OOGE - ADDED 3mL HNO₃ FOR ACCEPTABLE pH - OOGEF - ADDED 2 PELLETS NaOH FOR ACCEPTABLE pH

of preserved
bottles checked
for pH: 2 2
(2 or >12 unless noted)
Adjusted? yes
Checked by: U

Special Handling (if applicable)

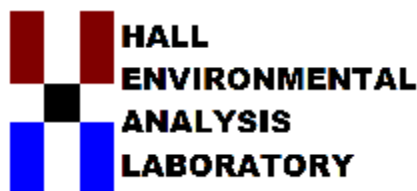
17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Yes			



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 14, 2012

Scott Crouch

Western Refining Southwest, Gallup

Rt. 3 Box 7

Gallup, NM 87301

TEL:

FAX

RE: SWMU NO.1

OrderNo.: 1210332

Dear Scott Crouch:

Hall Environmental Analysis Laboratory received 15 sample(s) on 10/5/2012 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued October 29, 2012.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (10-12')DUP

Project: SWMU NO.1

Collection Date: 10/3/2012 1:15:00 PM

Lab ID: 1210332-001

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/8/2012 9:31:27 AM
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	10/8/2012 9:31:27 AM
Surr: DNOP	95.9	77.6-140		%REC	1	10/8/2012 9:31:27 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 5:39:05 PM
Surr: BFB	108	84-116		%REC	1	10/6/2012 5:39:05 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 11:08:22 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 9:55:44 AM
Arsenic	ND	12		mg/Kg	5	10/11/2012 9:55:44 AM
Barium	870	5.0		mg/Kg	50	10/11/2012 11:42:40 AM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 9:55:44 AM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 9:55:44 AM
Chromium	6.4	1.5		mg/Kg	5	10/11/2012 9:55:44 AM
Cobalt	3.1	1.5		mg/Kg	5	10/11/2012 9:55:44 AM
Iron	9200	500		mg/Kg	500	10/11/2012 11:45:05 AM
Lead	4.4	1.2		mg/Kg	5	10/11/2012 9:55:44 AM
Manganese	1400	5.0		mg/Kg	50	10/11/2012 11:42:40 AM
Nickel	5.0	2.5		mg/Kg	5	10/11/2012 9:55:44 AM
Selenium	ND	12		mg/Kg	5	10/11/2012 9:55:44 AM
Silver	ND	1.2		mg/Kg	5	10/11/2012 9:55:44 AM
Vanadium	19	12		mg/Kg	5	10/11/2012 9:55:44 AM
Zinc	ND	12		mg/Kg	5	10/11/2012 9:55:44 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Benzoic acid	ND	0.49		mg/Kg	1	10/9/2012 7:22:09 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (10-12')DUP

Project: SWMU NO.1

Collection Date: 10/3/2012 1:15:00 PM

Lab ID: 1210332-001

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.49		mg/Kg	1	10/9/2012 7:22:09 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
4-Chloro-3-methylphenol	ND	0.49		mg/Kg	1	10/9/2012 7:22:09 PM
4-Chloroaniline	ND	0.49		mg/Kg	1	10/9/2012 7:22:09 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 7:22:09 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Di-n-butyl phthalate	ND	0.49		mg/Kg	1	10/9/2012 7:22:09 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 7:22:09 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 7:22:09 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 7:22:09 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/9/2012 7:22:09 PM
4,6-Dinitro-2-methylphenol	ND	0.49		mg/Kg	1	10/9/2012 7:22:09 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 7:22:09 PM
2,4-Dinitrotoluene	ND	0.49		mg/Kg	1	10/9/2012 7:22:09 PM
2,6-Dinitrotoluene	ND	0.49		mg/Kg	1	10/9/2012 7:22:09 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Isophorone	ND	0.49		mg/Kg	1	10/9/2012 7:22:09 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
2-Methylphenol	ND	0.49		mg/Kg	1	10/9/2012 7:22:09 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM

Qualifiers:

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- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (10-12')DUP

Project: SWMU NO.1

Collection Date: 10/3/2012 1:15:00 PM

Lab ID: 1210332-001

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 7:22:09 PM
Nitrobenzene	ND	0.49		mg/Kg	1	10/9/2012 7:22:09 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 7:22:09 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 7:22:09 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Pyridine	ND	0.49		mg/Kg	1	10/9/2012 7:22:09 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 7:22:09 PM
Surr: 2,4,6-Tribromophenol	83.5	21.3-145		%REC	1	10/9/2012 7:22:09 PM
Surr: 2-Fluorobiphenyl	75.5	20-131		%REC	1	10/9/2012 7:22:09 PM
Surr: 2-Fluorophenol	80.0	11.9-130		%REC	1	10/9/2012 7:22:09 PM
Surr: 4-Terphenyl-d14	66.4	25.1-149		%REC	1	10/9/2012 7:22:09 PM
Surr: Nitrobenzene-d5	73.6	25.6-137		%REC	1	10/9/2012 7:22:09 PM
Surr: Phenol-d5	83.3	20.3-132		%REC	1	10/9/2012 7:22:09 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Toluene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Ethylbenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Xylenes, Total	ND	0.00197		mg/Kg	1	10/8/2012 9:56:35 PM
Methyl tert-butyl ether (MTBE)	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,2,4-Trimethylbenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,3,5-Trimethylbenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,2-Dichloroethane (EDC)	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,2-Dibromoethane (EDB)	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Naphthalene	ND	0.00197		mg/Kg	1	10/8/2012 9:56:35 PM
1-Methylnaphthalene	ND	0.00395		mg/Kg	1	10/8/2012 9:56:35 PM
2-Methylnaphthalene	ND	0.00395		mg/Kg	1	10/8/2012 9:56:35 PM
Acetone	0.0116	0.00986		mg/Kg	1	10/8/2012 9:56:35 PM
Bromobenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Bromodichloromethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Bromoform	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Bromomethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
2-Butanone	ND	0.00986		mg/Kg	1	10/8/2012 9:56:35 PM
Carbon tetrachloride	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Chlorobenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Chloroethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM

Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (10-12')DUP

Project: SWMU NO.1

Collection Date: 10/3/2012 1:15:00 PM

Lab ID: 1210332-001

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Chloromethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
2-Chlorotoluene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Carbon disulfide	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
4-Chlorotoluene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
cis-1,2-DCE	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
cis-1,3-Dichloropropene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,2-Dibromo-3-chloropropane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Dibromochloromethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Dibromomethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,2-Dichlorobenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,3-Dichlorobenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,4-Dichlorobenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Dichlorodifluoromethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,1-Dichloroethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,1-Dichloroethene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,2-Dichloropropane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,3-Dichloropropane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
2,2-Dichloropropane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,1-Dichloropropene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Hexachlorobutadiene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Isopropylbenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
4-Isopropyltoluene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Methylene chloride	ND	0.00296		mg/Kg	1	10/8/2012 9:56:35 PM
n-Butylbenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
2-Hexanone	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
n-Propylbenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
sec-Butylbenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Styrene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
4-Methyl-2-pentanone	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
tert-Butylbenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,1,1,2-Tetrachloroethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,1,2,2-Tetrachloroethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Tetrachloroethene (PCE)	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
trans-1,2-DCE	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
trans-1,3-Dichloropropene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,2,3-Trichlorobenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,2,4-Trichlorobenzene	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,1,1-Trichloroethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
1,1,2-Trichloroethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Trichloroethene (TCE)	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Trichlorofluoromethane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (10-12')DUP

Project: SWMU NO.1

Collection Date: 10/3/2012 1:15:00 PM

Lab ID: 1210332-001

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Vinyl chloride	ND	0.000986		mg/Kg	1	10/8/2012 9:56:35 PM
Surr: 1,2-Dichloroethane-d4	94.8	70-130		%REC	1	10/8/2012 9:56:35 PM
Surr: 4-Bromofluorobenzene	93.4	70-130		%REC	1	10/8/2012 9:56:35 PM
Surr: Dibromofluoromethane	91.9	70-130		%REC	1	10/8/2012 9:56:35 PM
Surr: Toluene-d8	92.7	70-130		%REC	1	10/8/2012 9:56:35 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (17-18')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:45:00 PM

Lab ID: 1210332-002

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/6/2012 9:43:43 PM
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	10/6/2012 9:43:43 PM
Surr: DNOP	91.0	77.6-140		%REC	1	10/6/2012 9:43:43 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	13	5.0		mg/Kg	1	10/6/2012 6:09:29 PM
Surr: BFB	105	84-116		%REC	1	10/6/2012 6:09:29 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 11:10:08 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 10:00:49 AM
Arsenic	ND	12		mg/Kg	5	10/11/2012 10:00:49 AM
Barium	370	5.0		mg/Kg	50	10/11/2012 11:48:01 AM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 10:00:49 AM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 10:00:49 AM
Chromium	7.9	1.5		mg/Kg	5	10/11/2012 10:00:49 AM
Cobalt	3.9	1.5		mg/Kg	5	10/11/2012 10:00:49 AM
Iron	10000	500		mg/Kg	500	10/11/2012 11:50:28 AM
Lead	2.7	1.2		mg/Kg	5	10/11/2012 10:00:49 AM
Manganese	570	5.0		mg/Kg	50	10/11/2012 11:48:01 AM
Nickel	6.0	2.5		mg/Kg	5	10/11/2012 10:00:49 AM
Selenium	ND	12		mg/Kg	5	10/11/2012 10:00:49 AM
Silver	ND	1.2		mg/Kg	5	10/11/2012 10:00:49 AM
Vanadium	17	12		mg/Kg	5	10/11/2012 10:00:49 AM
Zinc	17	12		mg/Kg	5	10/11/2012 10:00:49 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Benzoic acid	ND	0.50		mg/Kg	1	10/9/2012 7:51:52 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (17-18')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:45:00 PM

Lab ID: 1210332-002

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/9/2012 7:51:52 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 7:51:52 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/9/2012 7:51:52 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 7:51:52 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/9/2012 7:51:52 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 7:51:52 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 7:51:52 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 7:51:52 PM
2,4-Dimethylphenol	0.64	0.30		mg/Kg	1	10/9/2012 7:51:52 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 7:51:52 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 7:51:52 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 7:51:52 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 7:51:52 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Isophorone	ND	0.50		mg/Kg	1	10/9/2012 7:51:52 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
2-Methylnaphthalene	0.27	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
2-Methylphenol	ND	0.50		mg/Kg	1	10/9/2012 7:51:52 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM

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- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (17-18')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:45:00 PM

Lab ID: 1210332-002

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 7:51:52 PM
Nitrobenzene	ND	0.50		mg/Kg	1	10/9/2012 7:51:52 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 7:51:52 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 7:51:52 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Pyridine	ND	0.50		mg/Kg	1	10/9/2012 7:51:52 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 7:51:52 PM
Surr: 2,4,6-Tribromophenol	109	21.3-145		%REC	1	10/9/2012 7:51:52 PM
Surr: 2-Fluorobiphenyl	93.8	20-131		%REC	1	10/9/2012 7:51:52 PM
Surr: 2-Fluorophenol	99.7	11.9-130		%REC	1	10/9/2012 7:51:52 PM
Surr: 4-Terphenyl-d14	79.3	25.1-149		%REC	1	10/9/2012 7:51:52 PM
Surr: Nitrobenzene-d5	97.5	25.6-137		%REC	1	10/9/2012 7:51:52 PM
Surr: Phenol-d5	98.0	20.3-132		%REC	1	10/9/2012 7:51:52 PM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Toluene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Ethylbenzene	0.050	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,2,4-Trimethylbenzene	0.25	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,3,5-Trimethylbenzene	0.073	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Naphthalene	0.40	0.10		mg/Kg	1	10/15/2012 7:49:26 PM
1-Methylnaphthalene	0.55	0.20		mg/Kg	1	10/15/2012 7:49:26 PM
2-Methylnaphthalene	0.93	0.20		mg/Kg	1	10/15/2012 7:49:26 PM
Acetone	ND	0.75		mg/Kg	1	10/15/2012 7:49:26 PM
Bromobenzene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Bromoform	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Bromomethane	ND	0.15		mg/Kg	1	10/15/2012 7:49:26 PM
2-Butanone	ND	0.50		mg/Kg	1	10/15/2012 7:49:26 PM
Carbon disulfide	ND	0.50		mg/Kg	1	10/15/2012 7:49:26 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	10/15/2012 7:49:26 PM
Chlorobenzene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Chloroethane	ND	0.10		mg/Kg	1	10/15/2012 7:49:26 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (17-18')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:45:00 PM

Lab ID: 1210332-002

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Chloroform	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Chloromethane	ND	0.15		mg/Kg	1	10/15/2012 7:49:26 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	10/15/2012 7:49:26 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Dibromomethane	ND	0.10		mg/Kg	1	10/15/2012 7:49:26 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	10/15/2012 7:49:26 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	10/15/2012 7:49:26 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	10/15/2012 7:49:26 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	10/15/2012 7:49:26 PM
2-Hexanone	ND	0.50		mg/Kg	1	10/15/2012 7:49:26 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	10/15/2012 7:49:26 PM
Methylene chloride	ND	0.15		mg/Kg	1	10/15/2012 7:49:26 PM
n-Butylbenzene	ND	0.15		mg/Kg	1	10/15/2012 7:49:26 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Styrene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	10/15/2012 7:49:26 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	10/15/2012 7:49:26 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (17-18')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:45:00 PM

Lab ID: 1210332-002

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Vinyl chloride	ND	0.050		mg/Kg	1	10/15/2012 7:49:26 PM
Xylenes, Total	0.35	0.10		mg/Kg	1	10/15/2012 7:49:26 PM
Surr: 1,2-Dichloroethane-d4	95.3	70-130		%REC	1	10/15/2012 7:49:26 PM
Surr: 4-Bromofluorobenzene	89.7	70-130		%REC	1	10/15/2012 7:49:26 PM
Surr: Dibromofluoromethane	91.8	70-130		%REC	1	10/15/2012 7:49:26 PM
Surr: Toluene-d8	98.6	70-130		%REC	1	10/15/2012 7:49:26 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (23-24')

Project: SWMU NO.1

Collection Date: 10/3/2012 2:00:00 PM

Lab ID: 1210332-003

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/6/2012 10:08:49 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/6/2012 10:08:49 PM
Surr: DNOP	89.2	77.6-140		%REC	1	10/6/2012 10:08:49 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 6:25:18 AM
Surr: BFB	85.7	84-116		%REC	1	10/6/2012 6:25:18 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 11:11:55 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 10:16:19 AM
Arsenic	ND	12		mg/Kg	5	10/11/2012 10:16:19 AM
Barium	200	0.50		mg/Kg	5	10/11/2012 10:16:19 AM
Beryllium	1.1	0.75		mg/Kg	5	10/11/2012 10:16:19 AM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 10:16:19 AM
Chromium	14	1.5		mg/Kg	5	10/11/2012 10:16:19 AM
Cobalt	5.9	1.5		mg/Kg	5	10/11/2012 10:16:19 AM
Iron	18000	500		mg/Kg	500	10/11/2012 12:08:30 PM
Lead	2.1	1.2		mg/Kg	5	10/11/2012 10:16:19 AM
Manganese	340	1.0		mg/Kg	10	10/11/2012 12:06:07 PM
Nickel	12	2.5		mg/Kg	5	10/11/2012 10:16:19 AM
Selenium	ND	12		mg/Kg	5	10/11/2012 10:16:19 AM
Silver	ND	1.2		mg/Kg	5	10/11/2012 10:16:19 AM
Vanadium	15	12		mg/Kg	5	10/11/2012 10:16:19 AM
Zinc	26	12		mg/Kg	5	10/11/2012 10:16:19 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Benzoic acid	ND	0.50		mg/Kg	1	10/9/2012 8:21:38 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM

Qualifiers:

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- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (23-24')

Project: SWMU NO.1

Collection Date: 10/3/2012 2:00:00 PM

Lab ID: 1210332-003

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/9/2012 8:21:38 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 8:21:38 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/9/2012 8:21:38 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 8:21:38 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/9/2012 8:21:38 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 8:21:38 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 8:21:38 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 8:21:38 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/9/2012 8:21:38 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 8:21:38 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 8:21:38 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 8:21:38 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 8:21:38 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Isophorone	ND	0.50		mg/Kg	1	10/9/2012 8:21:38 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
2-Methylphenol	ND	0.50		mg/Kg	1	10/9/2012 8:21:38 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (23-24')

Project: SWMU NO.1

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Lab ID: 1210332-003

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 8:21:38 PM
Nitrobenzene	ND	0.50		mg/Kg	1	10/9/2012 8:21:38 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 8:21:38 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 8:21:38 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Pyridine	ND	0.50		mg/Kg	1	10/9/2012 8:21:38 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 8:21:38 PM
Surr: 2,4,6-Tribromophenol	90.5	21.3-145		%REC	1	10/9/2012 8:21:38 PM
Surr: 2-Fluorobiphenyl	80.2	20-131		%REC	1	10/9/2012 8:21:38 PM
Surr: 2-Fluorophenol	88.2	11.9-130		%REC	1	10/9/2012 8:21:38 PM
Surr: 4-Terphenyl-d14	81.6	25.1-149		%REC	1	10/9/2012 8:21:38 PM
Surr: Nitrobenzene-d5	79.5	25.6-137		%REC	1	10/9/2012 8:21:38 PM
Surr: Phenol-d5	86.5	20.3-132		%REC	1	10/9/2012 8:21:38 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	0.00566	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Toluene	0.00275	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Ethylbenzene	0.00125	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Xylenes, Total	0.00218	0.00183		mg/Kg	1	10/8/2012 10:27:25 PM
Methyl tert-butyl ether (MTBE)	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,2,4-Trimethylbenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,3,5-Trimethylbenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,2-Dichloroethane (EDC)	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,2-Dibromoethane (EDB)	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Naphthalene	ND	0.00183		mg/Kg	1	10/8/2012 10:27:25 PM
1-Methylnaphthalene	ND	0.00366		mg/Kg	1	10/8/2012 10:27:25 PM
2-Methylnaphthalene	ND	0.00366		mg/Kg	1	10/8/2012 10:27:25 PM
Acetone	0.0173	0.00915		mg/Kg	1	10/8/2012 10:27:25 PM
Bromobenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Bromodichloromethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Bromoform	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Bromomethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
2-Butanone	ND	0.00915		mg/Kg	1	10/8/2012 10:27:25 PM
Carbon tetrachloride	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Chlorobenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Chloroethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM

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- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (23-24')

Project: SWMU NO.1

Collection Date: 10/3/2012 2:00:00 PM

Lab ID: 1210332-003

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Chloromethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
2-Chlorotoluene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Carbon disulfide	ND	0.00915		mg/Kg	1	10/8/2012 10:27:25 PM
4-Chlorotoluene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
cis-1,2-DCE	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
cis-1,3-Dichloropropene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,2-Dibromo-3-chloropropane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Dibromochloromethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Dibromomethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,2-Dichlorobenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,3-Dichlorobenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,4-Dichlorobenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Dichlorodifluoromethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,1-Dichloroethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,1-Dichloroethene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,2-Dichloropropane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,3-Dichloropropane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
2,2-Dichloropropane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,1-Dichloropropene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Hexachlorobutadiene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Isopropylbenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
4-Isopropyltoluene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Methylene chloride	ND	0.00275		mg/Kg	1	10/8/2012 10:27:25 PM
n-Butylbenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
2-Hexanone	ND	0.00915		mg/Kg	1	10/8/2012 10:27:25 PM
n-Propylbenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
sec-Butylbenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Styrene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
4-Methyl-2-pentanone	ND	0.00915		mg/Kg	1	10/8/2012 10:27:25 PM
tert-Butylbenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,1,1,2-Tetrachloroethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,1,2,2-Tetrachloroethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Tetrachloroethene (PCE)	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
trans-1,2-DCE	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
trans-1,3-Dichloropropene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,2,3-Trichlorobenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,2,4-Trichlorobenzene	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,1,1-Trichloroethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
1,1,2-Trichloroethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Trichloroethene (TCE)	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Trichlorofluoromethane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM

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Analytical Report

Lab Order 1210332

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CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (23-24')

Project: SWMU NO.1

Collection Date: 10/3/2012 2:00:00 PM

Lab ID: 1210332-003

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Vinyl chloride	ND	0.000915		mg/Kg	1	10/8/2012 10:27:25 PM
Surr: 1,2-Dichloroethane-d4	93.9	70-130		%REC	1	10/8/2012 10:27:25 PM
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	10/8/2012 10:27:25 PM
Surr: Dibromofluoromethane	92.2	70-130		%REC	1	10/8/2012 10:27:25 PM
Surr: Toluene-d8	95.4	70-130		%REC	1	10/8/2012 10:27:25 PM

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ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

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Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Trip Blank

Project: SWMU NO.1

Collection Date:

Lab ID: 1210332-004

Matrix: TRIP BLANK

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Toluene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Ethylbenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Naphthalene	ND	2.0		µg/L	1	10/5/2012 7:34:04 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/5/2012 7:34:04 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/5/2012 7:34:04 PM
Acetone	ND	10		µg/L	1	10/5/2012 7:34:04 PM
Bromobenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Bromoform	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Bromomethane	ND	3.0		µg/L	1	10/5/2012 7:34:04 PM
2-Butanone	ND	10		µg/L	1	10/5/2012 7:34:04 PM
Carbon disulfide	ND	10		µg/L	1	10/5/2012 7:34:04 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Chlorobenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Chloroethane	ND	2.0		µg/L	1	10/5/2012 7:34:04 PM
Chloroform	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Chloromethane	ND	3.0		µg/L	1	10/5/2012 7:34:04 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/5/2012 7:34:04 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Dibromomethane	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/5/2012 7:34:04 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
2-Hexanone	ND	10		µg/L	1	10/5/2012 7:34:04 PM

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- H Holding times for preparation or analysis exceeded
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Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Trip Blank

Project: SWMU NO.1

Collection Date:

Lab ID: 1210332-004

Matrix: TRIP BLANK

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Isopropylbenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/5/2012 7:34:04 PM
Methylene Chloride	ND	3.0		µg/L	1	10/5/2012 7:34:04 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/5/2012 7:34:04 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Styrene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/5/2012 7:34:04 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/5/2012 7:34:04 PM
Vinyl chloride	ND	1.0		µg/L	1	10/5/2012 7:34:04 PM
Xylenes, Total	ND	1.5		µg/L	1	10/5/2012 7:34:04 PM
Surr: 1,2-Dichloroethane-d4	83.8	70-130		%REC	1	10/5/2012 7:34:04 PM
Surr: 4-Bromofluorobenzene	82.2	70-130		%REC	1	10/5/2012 7:34:04 PM
Surr: Dibromofluoromethane	104	70-130		%REC	1	10/5/2012 7:34:04 PM
Surr: Toluene-d8	78.4	70-130		%REC	1	10/5/2012 7:34:04 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 GW

Project: SWMU NO.1

Collection Date: 10/3/2012 9:30:00 AM

Lab ID: 1210332-005

Matrix: AQUEOUS

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/8/2012 12:52:54 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/8/2012 12:52:54 PM
Surr: DNOP	119	79.5-166		%REC	1	10/8/2012 12:52:54 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.65	0.10		mg/L	2	10/6/2012 4:08:36 PM
Surr: BFB	114	69.8-119		%REC	2	10/6/2012 4:08:36 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Fluoride	0.89	0.10		mg/L	1	10/5/2012 8:47:29 PM
Chloride	1600	50		mg/L	100	10/11/2012 7:33:27 PM
Sulfate	810	10		mg/L	20	10/5/2012 8:59:53 PM
EPA METHOD 200.7: METALS						Analyst: ELS
Barium	0.54	0.0020		mg/L	1	10/16/2012 7:38:43 AM
Beryllium	0.0066	0.0020	*	mg/L	1	10/16/2012 7:38:43 AM
Cadmium	ND	0.0020		mg/L	1	10/16/2012 7:38:43 AM
Chromium	0.015	0.0060		mg/L	1	10/16/2012 7:38:43 AM
Cobalt	0.043	0.0060		mg/L	1	10/16/2012 7:38:43 AM
Iron	20	1.0	*	mg/L	50	10/16/2012 8:03:15 AM
Manganese	2.1	0.010	*	mg/L	5	10/16/2012 7:42:12 AM
Nickel	0.35	0.010	*	mg/L	1	10/16/2012 7:38:43 AM
Silver	ND	0.0050		mg/L	1	10/16/2012 7:38:43 AM
Vanadium	ND	0.050		mg/L	1	10/16/2012 7:38:43 AM
Zinc	0.068	0.010		mg/L	1	10/16/2012 7:38:43 AM
EPA 200.8: METALS						Analyst: DBD
Antimony	ND	0.0025		mg/L	2.5	10/15/2012 5:58:10 PM
Arsenic	0.015	0.0025	*	mg/L	2.5	10/15/2012 5:58:10 PM
Lead	0.057	0.0025	*	mg/L	2.5	10/15/2012 5:58:10 PM
Selenium	0.0097	0.0025		mg/L	2.5	10/15/2012 5:58:10 PM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	ND	0.00020		mg/L	1	10/12/2012 4:34:37 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Acenaphthylene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Aniline	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Anthracene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Azobenzene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Benz(a)anthracene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Benzo(a)pyrene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	10/5/2012 2:40:11 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 GW

Project: SWMU NO.1

Collection Date: 10/3/2012 9:30:00 AM

Lab ID: 1210332-005

Matrix: AQUEOUS

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(k)fluoranthene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Benzoic acid	ND	20		µg/L	1	10/5/2012 2:40:11 PM
Benzyl alcohol	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	10/5/2012 2:40:11 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Butyl benzyl phthalate	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Carbazole	ND	10		µg/L	1	10/5/2012 2:40:11 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	10/5/2012 2:40:11 PM
4-Chloroaniline	ND	10		µg/L	1	10/5/2012 2:40:11 PM
2-Chloronaphthalene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
2-Chlorophenol	ND	10		µg/L	1	10/5/2012 2:40:11 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Chrysene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Di-n-butyl phthalate	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Di-n-octyl phthalate	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Dibenzofuran	ND	10		µg/L	1	10/5/2012 2:40:11 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Diethyl phthalate	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Dimethyl phthalate	ND	10		µg/L	1	10/5/2012 2:40:11 PM
2,4-Dichlorophenol	ND	20		µg/L	1	10/5/2012 2:40:11 PM
2,4-Dimethylphenol	ND	10		µg/L	1	10/5/2012 2:40:11 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	10/5/2012 2:40:11 PM
2,4-Dinitrophenol	ND	20		µg/L	1	10/5/2012 2:40:11 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Fluoranthene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Fluorene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Hexachlorobenzene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Hexachlorobutadiene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Hexachloroethane	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Isophorone	ND	10		µg/L	1	10/5/2012 2:40:11 PM
1-Methylnaphthalene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
2-Methylnaphthalene	ND	10		µg/L	1	10/5/2012 2:40:11 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 GW

Project: SWMU NO.1

Collection Date: 10/3/2012 9:30:00 AM

Lab ID: 1210332-005

Matrix: AQUEOUS

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylphenol	ND	10		µg/L	1	10/5/2012 2:40:11 PM
3+4-Methylphenol	ND	10		µg/L	1	10/5/2012 2:40:11 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/5/2012 2:40:11 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	10/5/2012 2:40:11 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Naphthalene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
2-Nitroaniline	ND	10		µg/L	1	10/5/2012 2:40:11 PM
3-Nitroaniline	ND	10		µg/L	1	10/5/2012 2:40:11 PM
4-Nitroaniline	ND	20		µg/L	1	10/5/2012 2:40:11 PM
Nitrobenzene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
2-Nitrophenol	ND	10		µg/L	1	10/5/2012 2:40:11 PM
4-Nitrophenol	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Pentachlorophenol	ND	20		µg/L	1	10/5/2012 2:40:11 PM
Phenanthrene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Phenol	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Pyrene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Pyridine	ND	10		µg/L	1	10/5/2012 2:40:11 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/5/2012 2:40:11 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	10/5/2012 2:40:11 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	10/5/2012 2:40:11 PM
Surr: 2,4,6-Tribromophenol	74.9	44.2-126		%REC	1	10/5/2012 2:40:11 PM
Surr: 2-Fluorobiphenyl	83.3	37-114		%REC	1	10/5/2012 2:40:11 PM
Surr: 2-Fluorophenol	51.8	23.4-98		%REC	1	10/5/2012 2:40:11 PM
Surr: 4-Terphenyl-d14	81.8	41.3-116		%REC	1	10/5/2012 2:40:11 PM
Surr: Nitrobenzene-d5	77.3	39.5-118		%REC	1	10/5/2012 2:40:11 PM
Surr: Phenol-d5	49.8	20.9-95.9		%REC	1	10/5/2012 2:40:11 PM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	3.4	1.0		µg/L	1	10/5/2012 8:01:37 PM
Toluene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Ethylbenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Methyl tert-butyl ether (MTBE)	40	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Naphthalene	ND	2.0		µg/L	1	10/5/2012 8:01:37 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/5/2012 8:01:37 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/5/2012 8:01:37 PM
Acetone	14	10		µg/L	1	10/5/2012 8:01:37 PM
Bromobenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 GW

Project: SWMU NO.1

Collection Date: 10/3/2012 9:30:00 AM

Lab ID: 1210332-005

Matrix: AQUEOUS

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Bromoform	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Bromomethane	ND	3.0		µg/L	1	10/5/2012 8:01:37 PM
2-Butanone	ND	10		µg/L	1	10/5/2012 8:01:37 PM
Carbon disulfide	ND	10		µg/L	1	10/5/2012 8:01:37 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Chlorobenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Chloroethane	ND	2.0		µg/L	1	10/5/2012 8:01:37 PM
Chloroform	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Chloromethane	ND	3.0		µg/L	1	10/5/2012 8:01:37 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/5/2012 8:01:37 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Dibromomethane	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/5/2012 8:01:37 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
2-Hexanone	ND	10		µg/L	1	10/5/2012 8:01:37 PM
Isopropylbenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/5/2012 8:01:37 PM
Methylene Chloride	ND	3.0		µg/L	1	10/5/2012 8:01:37 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/5/2012 8:01:37 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Styrene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/5/2012 8:01:37 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-3 GW

Project: SWMU NO.1

Collection Date: 10/3/2012 9:30:00 AM

Lab ID: 1210332-005

Matrix: AQUEOUS

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/5/2012 8:01:37 PM
Vinyl chloride	ND	1.0		µg/L	1	10/5/2012 8:01:37 PM
Xylenes, Total	ND	1.5		µg/L	1	10/5/2012 8:01:37 PM
Surr: 1,2-Dichloroethane-d4	88.1	70-130		%REC	1	10/5/2012 8:01:37 PM
Surr: 4-Bromofluorobenzene	82.1	70-130		%REC	1	10/5/2012 8:01:37 PM
Surr: Dibromofluoromethane	101	70-130		%REC	1	10/5/2012 8:01:37 PM
Surr: Toluene-d8	104	70-130		%REC	1	10/5/2012 8:01:37 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (8-10')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:00:00 PM

Lab ID: 1210332-006

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/8/2012 9:05:40 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/8/2012 9:05:40 AM
Surr: DNOP	90.4	77.6-140		%REC	1	10/8/2012 9:05:40 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 6:55:17 AM
Surr: BFB	89.3	84-116		%REC	1	10/6/2012 6:55:17 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 11:13:42 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 10:21:28 AM
Arsenic	ND	12		mg/Kg	5	10/11/2012 10:21:28 AM
Barium	590	5.0		mg/Kg	50	10/11/2012 12:11:09 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 10:21:28 AM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 10:21:28 AM
Chromium	7.9	1.5		mg/Kg	5	10/11/2012 10:21:28 AM
Cobalt	4.0	1.5		mg/Kg	5	10/11/2012 10:21:28 AM
Iron	11000	500		mg/Kg	500	10/11/2012 12:13:37 PM
Lead	4.2	1.2		mg/Kg	5	10/11/2012 10:21:28 AM
Manganese	720	5.0		mg/Kg	50	10/11/2012 12:11:09 PM
Nickel	6.3	2.5		mg/Kg	5	10/11/2012 10:21:28 AM
Selenium	ND	12		mg/Kg	5	10/11/2012 10:21:28 AM
Silver	ND	1.2		mg/Kg	5	10/11/2012 10:21:28 AM
Vanadium	16	12		mg/Kg	5	10/11/2012 10:21:28 AM
Zinc	16	12		mg/Kg	5	10/11/2012 10:21:28 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Benzoic acid	ND	0.50		mg/Kg	1	10/9/2012 8:51:23 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (8-10')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:00:00 PM

Lab ID: 1210332-006

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/9/2012 8:51:23 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 8:51:23 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/9/2012 8:51:23 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 8:51:23 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/9/2012 8:51:23 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 8:51:23 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 8:51:23 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 8:51:23 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/9/2012 8:51:23 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 8:51:23 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 8:51:23 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 8:51:23 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 8:51:23 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Isophorone	ND	0.50		mg/Kg	1	10/9/2012 8:51:23 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
2-Methylphenol	ND	0.50		mg/Kg	1	10/9/2012 8:51:23 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (8-10')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:00:00 PM

Lab ID: 1210332-006

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 8:51:23 PM
Nitrobenzene	ND	0.50		mg/Kg	1	10/9/2012 8:51:23 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 8:51:23 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 8:51:23 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Pyridine	ND	0.50		mg/Kg	1	10/9/2012 8:51:23 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 8:51:23 PM
Surr: 2,4,6-Tribromophenol	96.9	21.3-145		%REC	1	10/9/2012 8:51:23 PM
Surr: 2-Fluorobiphenyl	92.7	20-131		%REC	1	10/9/2012 8:51:23 PM
Surr: 2-Fluorophenol	84.5	11.9-130		%REC	1	10/9/2012 8:51:23 PM
Surr: 4-Terphenyl-d14	80.8	25.1-149		%REC	1	10/9/2012 8:51:23 PM
Surr: Nitrobenzene-d5	87.8	25.6-137		%REC	1	10/9/2012 8:51:23 PM
Surr: Phenol-d5	84.9	20.3-132		%REC	1	10/9/2012 8:51:23 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Toluene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Ethylbenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Xylenes, Total	ND	0.00181		mg/Kg	1	10/8/2012 10:58:13 PM
Methyl tert-butyl ether (MTBE)	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,2,4-Trimethylbenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,3,5-Trimethylbenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,2-Dichloroethane (EDC)	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,2-Dibromoethane (EDB)	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Naphthalene	ND	0.00181		mg/Kg	1	10/8/2012 10:58:13 PM
1-Methylnaphthalene	ND	0.00363		mg/Kg	1	10/8/2012 10:58:13 PM
2-Methylnaphthalene	ND	0.00363		mg/Kg	1	10/8/2012 10:58:13 PM
Acetone	0.0314	0.00907		mg/Kg	1	10/8/2012 10:58:13 PM
Bromobenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Bromodichloromethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Bromoform	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Bromomethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
2-Butanone	ND	0.00907		mg/Kg	1	10/8/2012 10:58:13 PM
Carbon tetrachloride	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Chlorobenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Chloroethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (8-10')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:00:00 PM

Lab ID: 1210332-006

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Chloromethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
2-Chlorotoluene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Carbon disulfide	ND	0.00907		mg/Kg	1	10/8/2012 10:58:13 PM
4-Chlorotoluene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
cis-1,2-DCE	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
cis-1,3-Dichloropropene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,2-Dibromo-3-chloropropane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Dibromochloromethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Dibromomethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,2-Dichlorobenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,3-Dichlorobenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,4-Dichlorobenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Dichlorodifluoromethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,1-Dichloroethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,1-Dichloroethene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,2-Dichloropropane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,3-Dichloropropane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
2,2-Dichloropropane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,1-Dichloropropene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Hexachlorobutadiene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Isopropylbenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
4-Isopropyltoluene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Methylene chloride	ND	0.00272		mg/Kg	1	10/8/2012 10:58:13 PM
n-Butylbenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
2-Hexanone	ND	0.00907		mg/Kg	1	10/8/2012 10:58:13 PM
n-Propylbenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
sec-Butylbenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Styrene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
4-Methyl-2-pentanone	ND	0.00907		mg/Kg	1	10/8/2012 10:58:13 PM
tert-Butylbenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,1,1,2-Tetrachloroethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,1,2,2-Tetrachloroethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Tetrachloroethene (PCE)	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
trans-1,2-DCE	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
trans-1,3-Dichloropropene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,2,3-Trichlorobenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,2,4-Trichlorobenzene	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,1,1-Trichloroethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
1,1,2-Trichloroethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Trichloroethene (TCE)	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Trichlorofluoromethane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (8-10')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:00:00 PM

Lab ID: 1210332-006

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Vinyl chloride	ND	0.000907		mg/Kg	1	10/8/2012 10:58:13 PM
Surr: 1,2-Dichloroethane-d4	94.8	70-130		%REC	1	10/8/2012 10:58:13 PM
Surr: 4-Bromofluorobenzene	91.4	70-130		%REC	1	10/8/2012 10:58:13 PM
Surr: Dibromofluoromethane	93.1	70-130		%REC	1	10/8/2012 10:58:13 PM
Surr: Toluene-d8	102	70-130		%REC	1	10/8/2012 10:58:13 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (10-12')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:15:00 PM

Lab ID: 1210332-007

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	16		mg/Kg	1	10/8/2012 9:56:53 AM
Motor Oil Range Organics (MRO)	ND	82		mg/Kg	1	10/8/2012 9:56:53 AM
Surr: DNOP	91.8	77.6-140		%REC	1	10/8/2012 9:56:53 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 7:25:26 AM
Surr: BFB	96.1	84-116		%REC	1	10/6/2012 7:25:26 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 11:15:28 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 10:26:23 AM
Arsenic	ND	12		mg/Kg	5	10/11/2012 10:26:23 AM
Barium	360	5.0		mg/Kg	50	10/11/2012 12:16:30 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 10:26:23 AM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 10:26:23 AM
Chromium	3.7	1.5		mg/Kg	5	10/11/2012 10:26:23 AM
Cobalt	2.0	1.5		mg/Kg	5	10/11/2012 10:26:23 AM
Iron	5300	500		mg/Kg	500	10/11/2012 12:18:56 PM
Lead	3.1	1.2		mg/Kg	5	10/11/2012 10:26:23 AM
Manganese	550	5.0		mg/Kg	50	10/11/2012 12:16:30 PM
Nickel	2.9	2.5		mg/Kg	5	10/11/2012 10:26:23 AM
Selenium	ND	12		mg/Kg	5	10/11/2012 10:26:23 AM
Silver	ND	1.2		mg/Kg	5	10/11/2012 10:26:23 AM
Vanadium	ND	12		mg/Kg	5	10/11/2012 10:26:23 AM
Zinc	ND	12		mg/Kg	5	10/11/2012 10:26:23 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Acenaphthylene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Aniline	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Anthracene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Azobenzene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Benz(a)anthracene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Benzo(a)pyrene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Benzo(b)fluoranthene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Benzo(g,h,i)perylene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Benzo(k)fluoranthene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Benzoic acid	ND	1.0		mg/Kg	1	10/9/2012 9:20:56 PM
Benzyl alcohol	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Bis(2-chloroethoxy)methane	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Bis(2-chloroethyl)ether	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Bis(2-chloroisopropyl)ether	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (10-12')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:15:00 PM

Lab ID: 1210332-007

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg	1	10/9/2012 9:20:56 PM
4-Bromophenyl phenyl ether	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Butyl benzyl phthalate	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Carbazole	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
4-Chloro-3-methylphenol	ND	1.0		mg/Kg	1	10/9/2012 9:20:56 PM
4-Chloroaniline	ND	1.0		mg/Kg	1	10/9/2012 9:20:56 PM
2-Chloronaphthalene	ND	0.50		mg/Kg	1	10/9/2012 9:20:56 PM
2-Chlorophenol	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
4-Chlorophenyl phenyl ether	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Chrysene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Di-n-butyl phthalate	ND	1.0		mg/Kg	1	10/9/2012 9:20:56 PM
Di-n-octyl phthalate	ND	0.50		mg/Kg	1	10/9/2012 9:20:56 PM
Dibenz(a,h)anthracene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Dibenzofuran	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
1,2-Dichlorobenzene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
1,3-Dichlorobenzene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
1,4-Dichlorobenzene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
3,3'-Dichlorobenzidine	ND	0.50		mg/Kg	1	10/9/2012 9:20:56 PM
Diethyl phthalate	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Dimethyl phthalate	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
2,4-Dichlorophenol	ND	0.80		mg/Kg	1	10/9/2012 9:20:56 PM
2,4-Dimethylphenol	ND	0.60		mg/Kg	1	10/9/2012 9:20:56 PM
4,6-Dinitro-2-methylphenol	ND	1.0		mg/Kg	1	10/9/2012 9:20:56 PM
2,4-Dinitrophenol	ND	0.80		mg/Kg	1	10/9/2012 9:20:56 PM
2,4-Dinitrotoluene	ND	1.0		mg/Kg	1	10/9/2012 9:20:56 PM
2,6-Dinitrotoluene	ND	1.0		mg/Kg	1	10/9/2012 9:20:56 PM
Fluoranthene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Fluorene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Hexachlorobenzene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Hexachlorobutadiene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Hexachlorocyclopentadiene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Hexachloroethane	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Indeno(1,2,3-cd)pyrene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Isophorone	ND	1.0		mg/Kg	1	10/9/2012 9:20:56 PM
1-Methylnaphthalene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
2-Methylnaphthalene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
2-Methylphenol	ND	1.0		mg/Kg	1	10/9/2012 9:20:56 PM
3+4-Methylphenol	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
N-Nitrosodi-n-propylamine	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
N-Nitrosodiphenylamine	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Naphthalene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
2-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (10-12')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:15:00 PM

Lab ID: 1210332-007

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
4-Nitroaniline	ND	0.80		mg/Kg	1	10/9/2012 9:20:56 PM
Nitrobenzene	ND	1.0		mg/Kg	1	10/9/2012 9:20:56 PM
2-Nitrophenol	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
4-Nitrophenol	ND	0.50		mg/Kg	1	10/9/2012 9:20:56 PM
Pentachlorophenol	ND	0.80		mg/Kg	1	10/9/2012 9:20:56 PM
Phenanthrene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Phenol	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Pyrene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Pyridine	ND	1.0		mg/Kg	1	10/9/2012 9:20:56 PM
1,2,4-Trichlorobenzene	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
2,4,5-Trichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
2,4,6-Trichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 9:20:56 PM
Surr: 2,4,6-Tribromophenol	97.4	21.3-145		%REC	1	10/9/2012 9:20:56 PM
Surr: 2-Fluorobiphenyl	90.6	20-131		%REC	1	10/9/2012 9:20:56 PM
Surr: 2-Fluorophenol	104	11.9-130		%REC	1	10/9/2012 9:20:56 PM
Surr: 4-Terphenyl-d14	79.0	25.1-149		%REC	1	10/9/2012 9:20:56 PM
Surr: Nitrobenzene-d5	92.0	25.6-137		%REC	1	10/9/2012 9:20:56 PM
Surr: Phenol-d5	95.8	20.3-132		%REC	1	10/9/2012 9:20:56 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Toluene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Ethylbenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Xylenes, Total	ND	0.00227		mg/Kg	1	10/8/2012 11:29:01 PM
Methyl tert-butyl ether (MTBE)	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,2,4-Trimethylbenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,3,5-Trimethylbenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,2-Dichloroethane (EDC)	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,2-Dibromoethane (EDB)	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Naphthalene	ND	0.00227		mg/Kg	1	10/8/2012 11:29:01 PM
1-Methylnaphthalene	ND	0.00453		mg/Kg	1	10/8/2012 11:29:01 PM
2-Methylnaphthalene	ND	0.00453		mg/Kg	1	10/8/2012 11:29:01 PM
Acetone	0.0153	0.0113		mg/Kg	1	10/8/2012 11:29:01 PM
Bromobenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Bromodichloromethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Bromoform	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Bromomethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
2-Butanone	ND	0.0113		mg/Kg	1	10/8/2012 11:29:01 PM
Carbon tetrachloride	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Chlorobenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Chloroethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (10-12')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:15:00 PM

Lab ID: 1210332-007

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Chloromethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
2-Chlorotoluene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Carbon disulfide	ND	0.0113		mg/Kg	1	10/8/2012 11:29:01 PM
4-Chlorotoluene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
cis-1,2-DCE	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
cis-1,3-Dichloropropene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,2-Dibromo-3-chloropropane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Dibromochloromethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Dibromomethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,2-Dichlorobenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,3-Dichlorobenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,4-Dichlorobenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Dichlorodifluoromethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,1-Dichloroethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,1-Dichloroethene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,2-Dichloropropane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,3-Dichloropropane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
2,2-Dichloropropane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,1-Dichloropropene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Hexachlorobutadiene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Isopropylbenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
4-Isopropyltoluene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Methylene chloride	ND	0.00340		mg/Kg	1	10/8/2012 11:29:01 PM
n-Butylbenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
2-Hexanone	ND	0.0113		mg/Kg	1	10/8/2012 11:29:01 PM
n-Propylbenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
sec-Butylbenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Styrene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
4-Methyl-2-pentanone	ND	0.0113		mg/Kg	1	10/8/2012 11:29:01 PM
tert-Butylbenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,1,1,2-Tetrachloroethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,1,2,2-Tetrachloroethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Tetrachloroethene (PCE)	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
trans-1,2-DCE	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
trans-1,3-Dichloropropene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,2,3-Trichlorobenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,2,4-Trichlorobenzene	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,1,1-Trichloroethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
1,1,2-Trichloroethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Trichloroethene (TCE)	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Trichlorofluoromethane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 (10-12')

Project: SWMU NO.1

Collection Date: 10/3/2012 1:15:00 PM

Lab ID: 1210332-007

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Vinyl chloride	ND	0.00113		mg/Kg	1	10/8/2012 11:29:01 PM
Surr: 1,2-Dichloroethane-d4	95.2	70-130		%REC	1	10/8/2012 11:29:01 PM
Surr: 4-Bromofluorobenzene	87.2	70-130		%REC	1	10/8/2012 11:29:01 PM
Surr: Dibromofluoromethane	104	70-130		%REC	1	10/8/2012 11:29:01 PM
Surr: Toluene-d8	103	70-130		%REC	1	10/8/2012 11:29:01 PM

Qualifiers:

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E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (26-27')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:20:00 PM

Lab ID: 1210332-008

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	12		mg/Kg	1	10/6/2012 10:33:54 PM
Motor Oil Range Organics (MRO)	ND	59		mg/Kg	1	10/6/2012 10:33:54 PM
Surr: DNOP	88.2	77.6-140		%REC	1	10/6/2012 10:33:54 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/8/2012 6:56:09 PM
Surr: BFB	113	84-116		%REC	1	10/8/2012 6:56:09 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 11:17:13 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	2.5		mg/Kg	1	10/11/2012 10:28:52 AM
Arsenic	ND	2.5		mg/Kg	1	10/11/2012 10:28:52 AM
Barium	230	0.50		mg/Kg	5	10/11/2012 10:31:19 AM
Beryllium	0.30	0.15		mg/Kg	1	10/11/2012 10:28:52 AM
Cadmium	ND	0.10		mg/Kg	1	10/11/2012 10:28:52 AM
Chromium	5.1	0.30		mg/Kg	1	10/11/2012 10:28:52 AM
Cobalt	2.1	0.30		mg/Kg	1	10/11/2012 10:28:52 AM
Iron	5900	500		mg/Kg	500	10/11/2012 12:21:48 PM
Lead	0.57	0.25		mg/Kg	1	10/11/2012 10:28:52 AM
Manganese	200	0.50		mg/Kg	5	10/11/2012 10:31:19 AM
Nickel	3.5	0.50		mg/Kg	1	10/11/2012 10:28:52 AM
Selenium	ND	2.5		mg/Kg	1	10/11/2012 10:28:52 AM
Silver	ND	0.25		mg/Kg	1	10/11/2012 10:28:52 AM
Vanadium	8.6	2.5		mg/Kg	1	10/11/2012 10:28:52 AM
Zinc	8.5	2.5		mg/Kg	1	10/11/2012 10:28:52 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Acenaphthylene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Aniline	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Anthracene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Azobenzene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Benz(a)anthracene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Benzo(a)pyrene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Benzo(b)fluoranthene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Benzo(g,h,i)perylene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Benzo(k)fluoranthene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Benzoic acid	ND	0.99		mg/Kg	1	10/9/2012 9:50:28 PM
Benzyl alcohol	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Bis(2-chloroethoxy)methane	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Bis(2-chloroethyl)ether	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Bis(2-chloroisopropyl)ether	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (26-27')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:20:00 PM

Lab ID: 1210332-008

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.99		mg/Kg	1	10/9/2012 9:50:28 PM
4-Bromophenyl phenyl ether	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Butyl benzyl phthalate	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Carbazole	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
4-Chloro-3-methylphenol	ND	0.99		mg/Kg	1	10/9/2012 9:50:28 PM
4-Chloroaniline	ND	0.99		mg/Kg	1	10/9/2012 9:50:28 PM
2-Chloronaphthalene	ND	0.49		mg/Kg	1	10/9/2012 9:50:28 PM
2-Chlorophenol	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
4-Chlorophenyl phenyl ether	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Chrysene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Di-n-butyl phthalate	ND	0.99		mg/Kg	1	10/9/2012 9:50:28 PM
Di-n-octyl phthalate	ND	0.49		mg/Kg	1	10/9/2012 9:50:28 PM
Dibenz(a,h)anthracene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Dibenzofuran	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
1,2-Dichlorobenzene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
1,3-Dichlorobenzene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
1,4-Dichlorobenzene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
3,3'-Dichlorobenzidine	ND	0.49		mg/Kg	1	10/9/2012 9:50:28 PM
Diethyl phthalate	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Dimethyl phthalate	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
2,4-Dichlorophenol	ND	0.79		mg/Kg	1	10/9/2012 9:50:28 PM
2,4-Dimethylphenol	ND	0.59		mg/Kg	1	10/9/2012 9:50:28 PM
4,6-Dinitro-2-methylphenol	ND	0.99		mg/Kg	1	10/9/2012 9:50:28 PM
2,4-Dinitrophenol	ND	0.79		mg/Kg	1	10/9/2012 9:50:28 PM
2,4-Dinitrotoluene	ND	0.99		mg/Kg	1	10/9/2012 9:50:28 PM
2,6-Dinitrotoluene	ND	0.99		mg/Kg	1	10/9/2012 9:50:28 PM
Fluoranthene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Fluorene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Hexachlorobenzene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Hexachlorobutadiene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Hexachlorocyclopentadiene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Hexachloroethane	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Indeno(1,2,3-cd)pyrene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Isophorone	ND	0.99		mg/Kg	1	10/9/2012 9:50:28 PM
1-Methylnaphthalene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
2-Methylnaphthalene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
2-Methylphenol	ND	0.99		mg/Kg	1	10/9/2012 9:50:28 PM
3+4-Methylphenol	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
N-Nitrosodi-n-propylamine	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
N-Nitrosodiphenylamine	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Naphthalene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
2-Nitroaniline	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (26-27')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:20:00 PM

Lab ID: 1210332-008

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
4-Nitroaniline	ND	0.79		mg/Kg	1	10/9/2012 9:50:28 PM
Nitrobenzene	ND	0.99		mg/Kg	1	10/9/2012 9:50:28 PM
2-Nitrophenol	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
4-Nitrophenol	ND	0.49		mg/Kg	1	10/9/2012 9:50:28 PM
Pentachlorophenol	ND	0.79		mg/Kg	1	10/9/2012 9:50:28 PM
Phenanthrene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Phenol	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Pyrene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Pyridine	ND	0.99		mg/Kg	1	10/9/2012 9:50:28 PM
1,2,4-Trichlorobenzene	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
2,4,5-Trichlorophenol	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
2,4,6-Trichlorophenol	ND	0.39		mg/Kg	1	10/9/2012 9:50:28 PM
Surr: 2,4,6-Tribromophenol	70.4	21.3-145		%REC	1	10/9/2012 9:50:28 PM
Surr: 2-Fluorobiphenyl	65.2	20-131		%REC	1	10/9/2012 9:50:28 PM
Surr: 2-Fluorophenol	65.4	11.9-130		%REC	1	10/9/2012 9:50:28 PM
Surr: 4-Terphenyl-d14	61.6	25.1-149		%REC	1	10/9/2012 9:50:28 PM
Surr: Nitrobenzene-d5	64.1	25.6-137		%REC	1	10/9/2012 9:50:28 PM
Surr: Phenol-d5	66.6	20.3-132		%REC	1	10/9/2012 9:50:28 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	0.00594	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Toluene	0.00831	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Ethylbenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Xylenes, Total	ND	0.00202		mg/Kg	1	10/8/2012 11:59:48 PM
Methyl tert-butyl ether (MTBE)	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,2,4-Trimethylbenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,3,5-Trimethylbenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,2-Dichloroethane (EDC)	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,2-Dibromoethane (EDB)	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Naphthalene	ND	0.00202		mg/Kg	1	10/8/2012 11:59:48 PM
1-Methylnaphthalene	ND	0.00404		mg/Kg	1	10/8/2012 11:59:48 PM
2-Methylnaphthalene	ND	0.00404		mg/Kg	1	10/8/2012 11:59:48 PM
Acetone	0.0233	0.0101		mg/Kg	1	10/8/2012 11:59:48 PM
Bromobenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Bromodichloromethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Bromoform	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Bromomethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
2-Butanone	ND	0.0101		mg/Kg	1	10/8/2012 11:59:48 PM
Carbon tetrachloride	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Chlorobenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Chloroethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (26-27')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:20:00 PM

Lab ID: 1210332-008

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Chloromethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
2-Chlorotoluene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Carbon disulfide	ND	0.0101		mg/Kg	1	10/8/2012 11:59:48 PM
4-Chlorotoluene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
cis-1,2-DCE	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
cis-1,3-Dichloropropene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,2-Dibromo-3-chloropropane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Dibromochloromethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Dibromomethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,2-Dichlorobenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,3-Dichlorobenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,4-Dichlorobenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Dichlorodifluoromethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,1-Dichloroethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,1-Dichloroethene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,2-Dichloropropane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,3-Dichloropropane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
2,2-Dichloropropane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,1-Dichloropropene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Hexachlorobutadiene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Isopropylbenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
4-Isopropyltoluene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Methylene chloride	ND	0.00303		mg/Kg	1	10/8/2012 11:59:48 PM
n-Butylbenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
2-Hexanone	ND	0.0101		mg/Kg	1	10/8/2012 11:59:48 PM
n-Propylbenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
sec-Butylbenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Styrene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
4-Methyl-2-pentanone	ND	0.0101		mg/Kg	1	10/8/2012 11:59:48 PM
tert-Butylbenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,1,1,2-Tetrachloroethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,1,2,2-Tetrachloroethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Tetrachloroethene (PCE)	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
trans-1,2-DCE	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
trans-1,3-Dichloropropene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,2,3-Trichlorobenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,2,4-Trichlorobenzene	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,1,1-Trichloroethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
1,1,2-Trichloroethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Trichloroethene (TCE)	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Trichlorofluoromethane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (26-27')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:20:00 PM

Lab ID: 1210332-008

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Vinyl chloride	ND	0.00101		mg/Kg	1	10/8/2012 11:59:48 PM
Surr: 1,2-Dichloroethane-d4	105	70-130		%REC	1	10/8/2012 11:59:48 PM
Surr: 4-Bromofluorobenzene	87.5	70-130		%REC	1	10/8/2012 11:59:48 PM
Surr: Dibromofluoromethane	100	70-130		%REC	1	10/8/2012 11:59:48 PM
Surr: Toluene-d8	95.7	70-130		%REC	1	10/8/2012 11:59:48 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (27-28')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:30:00 PM

Lab ID: 1210332-009

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/6/2012 10:58:59 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/6/2012 10:58:59 PM
Surr: DNOP	89.3	77.6-140		%REC	1	10/6/2012 10:58:59 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 7:40:09 PM
Surr: BFB	98.1	84-116		%REC	1	10/6/2012 7:40:09 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 11:19:00 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 2:31:31 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 2:31:31 PM
Barium	380	5.0		mg/Kg	50	10/11/2012 12:24:38 PM
Beryllium	1.1	0.75		mg/Kg	5	10/11/2012 10:45:59 AM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 10:45:59 AM
Chromium	15	1.5		mg/Kg	5	10/11/2012 10:45:59 AM
Cobalt	7.8	1.5		mg/Kg	5	10/11/2012 10:45:59 AM
Iron	17000	500		mg/Kg	500	10/11/2012 12:27:03 PM
Lead	ND	1.2		mg/Kg	5	10/11/2012 10:45:59 AM
Manganese	640	5.0		mg/Kg	50	10/11/2012 12:24:38 PM
Nickel	12	2.5		mg/Kg	5	10/11/2012 10:45:59 AM
Selenium	ND	12		mg/Kg	5	10/11/2012 10:45:59 AM
Silver	ND	1.2		mg/Kg	5	10/11/2012 10:45:59 AM
Vanadium	22	12		mg/Kg	5	10/11/2012 10:45:59 AM
Zinc	31	12		mg/Kg	5	10/11/2012 10:45:59 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Benzoic acid	ND	0.50		mg/Kg	1	10/9/2012 10:19:57 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (27-28')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:30:00 PM

Lab ID: 1210332-009

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/9/2012 10:19:57 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 10:19:57 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/9/2012 10:19:57 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 10:19:57 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/9/2012 10:19:57 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 10:19:57 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 10:19:57 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 10:19:57 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/9/2012 10:19:57 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 10:19:57 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 10:19:57 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 10:19:57 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 10:19:57 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Isophorone	ND	0.50		mg/Kg	1	10/9/2012 10:19:57 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
2-Methylphenol	ND	0.50		mg/Kg	1	10/9/2012 10:19:57 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (27-28')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:30:00 PM

Lab ID: 1210332-009

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 10:19:57 PM
Nitrobenzene	ND	0.50		mg/Kg	1	10/9/2012 10:19:57 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 10:19:57 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 10:19:57 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Pyridine	ND	0.50		mg/Kg	1	10/9/2012 10:19:57 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 10:19:57 PM
Surr: 2,4,6-Tribromophenol	84.9	21.3-145		%REC	1	10/9/2012 10:19:57 PM
Surr: 2-Fluorobiphenyl	77.2	20-131		%REC	1	10/9/2012 10:19:57 PM
Surr: 2-Fluorophenol	79.7	11.9-130		%REC	1	10/9/2012 10:19:57 PM
Surr: 4-Terphenyl-d14	76.5	25.1-149		%REC	1	10/9/2012 10:19:57 PM
Surr: Nitrobenzene-d5	87.1	25.6-137		%REC	1	10/9/2012 10:19:57 PM
Surr: Phenol-d5	79.7	20.3-132		%REC	1	10/9/2012 10:19:57 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	0.00158	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Toluene	0.00101	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Ethylbenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Xylenes, Total	ND	0.00199		mg/Kg	1	10/9/2012 12:30:33 AM
Methyl tert-butyl ether (MTBE)	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,2,4-Trimethylbenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,3,5-Trimethylbenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,2-Dichloroethane (EDC)	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,2-Dibromoethane (EDB)	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Naphthalene	ND	0.00199		mg/Kg	1	10/9/2012 12:30:33 AM
1-Methylnaphthalene	ND	0.00398		mg/Kg	1	10/9/2012 12:30:33 AM
2-Methylnaphthalene	ND	0.00398		mg/Kg	1	10/9/2012 12:30:33 AM
Acetone	ND	0.00995		mg/Kg	1	10/9/2012 12:30:33 AM
Bromobenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Bromodichloromethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Bromoform	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Bromomethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
2-Butanone	ND	0.00995		mg/Kg	1	10/9/2012 12:30:33 AM
Carbon tetrachloride	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Chlorobenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Chloroethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (27-28')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:30:00 PM

Lab ID: 1210332-009

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Chloromethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
2-Chlorotoluene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Carbon disulfide	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
4-Chlorotoluene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
cis-1,2-DCE	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
cis-1,3-Dichloropropene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,2-Dibromo-3-chloropropane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Dibromochloromethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Dibromomethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,2-Dichlorobenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,3-Dichlorobenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,4-Dichlorobenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Dichlorodifluoromethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,1-Dichloroethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,1-Dichloroethene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,2-Dichloropropane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,3-Dichloropropane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
2,2-Dichloropropane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,1-Dichloropropene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Hexachlorobutadiene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Isopropylbenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
4-Isopropyltoluene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Methylene chloride	ND	0.00299		mg/Kg	1	10/9/2012 12:30:33 AM
n-Butylbenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
2-Hexanone	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
n-Propylbenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
sec-Butylbenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Styrene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
4-Methyl-2-pentanone	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
tert-Butylbenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,1,1,2-Tetrachloroethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,1,2,2-Tetrachloroethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Tetrachloroethene (PCE)	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
trans-1,2-DCE	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
trans-1,3-Dichloropropene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,2,3-Trichlorobenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,2,4-Trichlorobenzene	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,1,1-Trichloroethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
1,1,2-Trichloroethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Trichloroethene (TCE)	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Trichlorofluoromethane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (27-28')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:30:00 PM

Lab ID: 1210332-009

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Vinyl chloride	ND	0.000995		mg/Kg	1	10/9/2012 12:30:33 AM
Surr: 1,2-Dichloroethane-d4	98.7	70-130		%REC	1	10/9/2012 12:30:33 AM
Surr: 4-Bromofluorobenzene	97.4	70-130		%REC	1	10/9/2012 12:30:33 AM
Surr: Dibromofluoromethane	104	70-130		%REC	1	10/9/2012 12:30:33 AM
Surr: Toluene-d8	97.1	70-130		%REC	1	10/9/2012 12:30:33 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100312

Project: SWMU NO.1

Collection Date: 10/3/2012 6:44:00 PM

Lab ID: 1210332-010

Matrix: AQUEOUS

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/8/2012 1:14:39 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/8/2012 1:14:39 PM
Surr: DNOP	118	79.5-166		%REC	1	10/8/2012 1:14:39 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/5/2012 11:51:04 PM
Surr: BFB	113	69.8-119		%REC	1	10/5/2012 11:51:04 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Fluoride	ND	0.10		mg/L	1	10/5/2012 9:12:18 PM
Chloride	ND	0.50		mg/L	1	10/5/2012 9:12:18 PM
Sulfate	ND	0.50		mg/L	1	10/5/2012 9:12:18 PM
EPA METHOD 200.7: METALS						Analyst: JLF
Barium	ND	0.0020		mg/L	1	10/10/2012 8:08:55 PM
Beryllium	ND	0.0020		mg/L	1	10/10/2012 8:08:55 PM
Cadmium	ND	0.0020		mg/L	1	10/10/2012 8:08:55 PM
Chromium	ND	0.0060		mg/L	1	10/12/2012 7:42:29 AM
Cobalt	ND	0.0060		mg/L	1	10/10/2012 8:08:55 PM
Iron	0.025	0.020		mg/L	1	10/10/2012 8:08:55 PM
Manganese	ND	0.0020		mg/L	1	10/10/2012 8:08:55 PM
Nickel	ND	0.010		mg/L	1	10/10/2012 8:08:55 PM
Silver	ND	0.0050		mg/L	1	10/10/2012 8:08:55 PM
Vanadium	ND	0.050		mg/L	1	10/10/2012 8:08:55 PM
Zinc	ND	0.010		mg/L	1	10/12/2012 7:42:29 AM
EPA 200.8: METALS						Analyst: DBD
Antimony	ND	0.0010		mg/L	1	10/17/2012 11:13:21 AM
Arsenic	ND	0.0010		mg/L	1	10/17/2012 11:13:21 AM
Lead	ND	0.0010		mg/L	1	10/17/2012 11:13:21 AM
Selenium	ND	0.0010		mg/L	1	10/17/2012 11:13:21 AM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	ND	0.00020		mg/L	1	10/12/2012 4:36:48 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Acenaphthylene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Aniline	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Anthracene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Azobenzene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Benz(a)anthracene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Benzo(a)pyrene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	10/5/2012 3:09:51 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100312

Project: SWMU NO.1

Collection Date: 10/3/2012 6:44:00 PM

Lab ID: 1210332-010

Matrix: AQUEOUS

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(k)fluoranthene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Benzoic acid	ND	20		µg/L	1	10/5/2012 3:09:51 PM
Benzyl alcohol	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	10/5/2012 3:09:51 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Butyl benzyl phthalate	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Carbazole	ND	10		µg/L	1	10/5/2012 3:09:51 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	10/5/2012 3:09:51 PM
4-Chloroaniline	ND	10		µg/L	1	10/5/2012 3:09:51 PM
2-Chloronaphthalene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
2-Chlorophenol	ND	10		µg/L	1	10/5/2012 3:09:51 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Chrysene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Di-n-butyl phthalate	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Di-n-octyl phthalate	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Dibenzofuran	ND	10		µg/L	1	10/5/2012 3:09:51 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Diethyl phthalate	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Dimethyl phthalate	ND	10		µg/L	1	10/5/2012 3:09:51 PM
2,4-Dichlorophenol	ND	20		µg/L	1	10/5/2012 3:09:51 PM
2,4-Dimethylphenol	ND	10		µg/L	1	10/5/2012 3:09:51 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	10/5/2012 3:09:51 PM
2,4-Dinitrophenol	ND	20		µg/L	1	10/5/2012 3:09:51 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Fluoranthene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Fluorene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Hexachlorobenzene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Hexachlorobutadiene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Hexachloroethane	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Isophorone	ND	10		µg/L	1	10/5/2012 3:09:51 PM
1-Methylnaphthalene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
2-Methylnaphthalene	ND	10		µg/L	1	10/5/2012 3:09:51 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100312

Project: SWMU NO.1

Collection Date: 10/3/2012 6:44:00 PM

Lab ID: 1210332-010

Matrix: AQUEOUS

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylphenol	ND	10		µg/L	1	10/5/2012 3:09:51 PM
3+4-Methylphenol	ND	10		µg/L	1	10/5/2012 3:09:51 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/5/2012 3:09:51 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	10/5/2012 3:09:51 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Naphthalene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
2-Nitroaniline	ND	10		µg/L	1	10/5/2012 3:09:51 PM
3-Nitroaniline	ND	10		µg/L	1	10/5/2012 3:09:51 PM
4-Nitroaniline	ND	20		µg/L	1	10/5/2012 3:09:51 PM
Nitrobenzene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
2-Nitrophenol	ND	10		µg/L	1	10/5/2012 3:09:51 PM
4-Nitrophenol	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Pentachlorophenol	ND	20		µg/L	1	10/5/2012 3:09:51 PM
Phenanthrene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Phenol	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Pyrene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Pyridine	ND	10		µg/L	1	10/5/2012 3:09:51 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/5/2012 3:09:51 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	10/5/2012 3:09:51 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	10/5/2012 3:09:51 PM
Surr: 2,4,6-Tribromophenol	92.9	44.2-126		%REC	1	10/5/2012 3:09:51 PM
Surr: 2-Fluorobiphenyl	89.6	37-114		%REC	1	10/5/2012 3:09:51 PM
Surr: 2-Fluorophenol	69.2	23.4-98		%REC	1	10/5/2012 3:09:51 PM
Surr: 4-Terphenyl-d14	83.7	41.3-116		%REC	1	10/5/2012 3:09:51 PM
Surr: Nitrobenzene-d5	91.5	39.5-118		%REC	1	10/5/2012 3:09:51 PM
Surr: Phenol-d5	51.7	20.9-95.9		%REC	1	10/5/2012 3:09:51 PM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Toluene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Ethylbenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Naphthalene	ND	2.0		µg/L	1	10/5/2012 8:29:24 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/5/2012 8:29:24 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/5/2012 8:29:24 PM
Acetone	ND	10		µg/L	1	10/5/2012 8:29:24 PM
Bromobenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100312

Project: SWMU NO.1

Collection Date: 10/3/2012 6:44:00 PM

Lab ID: 1210332-010

Matrix: AQUEOUS

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Bromoform	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Bromomethane	ND	3.0		µg/L	1	10/5/2012 8:29:24 PM
2-Butanone	ND	10		µg/L	1	10/5/2012 8:29:24 PM
Carbon disulfide	ND	10		µg/L	1	10/5/2012 8:29:24 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Chlorobenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Chloroethane	ND	2.0		µg/L	1	10/5/2012 8:29:24 PM
Chloroform	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Chloromethane	ND	3.0		µg/L	1	10/5/2012 8:29:24 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/5/2012 8:29:24 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Dibromomethane	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/5/2012 8:29:24 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
2-Hexanone	ND	10		µg/L	1	10/5/2012 8:29:24 PM
Isopropylbenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/5/2012 8:29:24 PM
Methylene Chloride	ND	3.0		µg/L	1	10/5/2012 8:29:24 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/5/2012 8:29:24 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Styrene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/5/2012 8:29:24 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100312

Project: SWMU NO.1

Collection Date: 10/3/2012 6:44:00 PM

Lab ID: 1210332-010

Matrix: AQUEOUS

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/5/2012 8:29:24 PM
Vinyl chloride	ND	1.0		µg/L	1	10/5/2012 8:29:24 PM
Xylenes, Total	ND	1.5		µg/L	1	10/5/2012 8:29:24 PM
Surr: 1,2-Dichloroethane-d4	82.3	70-130		%REC	1	10/5/2012 8:29:24 PM
Surr: 4-Bromofluorobenzene	80.0	70-130		%REC	1	10/5/2012 8:29:24 PM
Surr: Dibromofluoromethane	89.2	70-130		%REC	1	10/5/2012 8:29:24 PM
Surr: Toluene-d8	80.0	70-130		%REC	1	10/5/2012 8:29:24 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MeOH Blank 100312

Project: SWMU NO.1

Collection Date:

Lab ID: 1210332-011

Matrix: MEOH BLAN

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 8:10:15 PM
Surr: BFB	77.0	84-116	S	%REC	1	10/6/2012 8:10:15 PM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Toluene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Naphthalene	ND	0.10		mg/Kg	1	10/15/2012 8:46:00 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/15/2012 8:46:00 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/15/2012 8:46:00 PM
Acetone	ND	0.75		mg/Kg	1	10/15/2012 8:46:00 PM
Bromobenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Bromoform	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Bromomethane	ND	0.15		mg/Kg	1	10/15/2012 8:46:00 PM
2-Butanone	ND	0.50		mg/Kg	1	10/15/2012 8:46:00 PM
Carbon disulfide	ND	0.50		mg/Kg	1	10/15/2012 8:46:00 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	10/15/2012 8:46:00 PM
Chlorobenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Chloroethane	ND	0.10		mg/Kg	1	10/15/2012 8:46:00 PM
Chloroform	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Chloromethane	ND	0.15		mg/Kg	1	10/15/2012 8:46:00 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	10/15/2012 8:46:00 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Dibromomethane	ND	0.10		mg/Kg	1	10/15/2012 8:46:00 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	10/15/2012 8:46:00 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MeOH Blank 100312

Project: SWMU NO.1

Collection Date:

Lab ID: 1210332-011

Matrix: MEOH BLAN

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
2,2-Dichloropropane	ND	0.10		mg/Kg	1	10/15/2012 8:46:00 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	10/15/2012 8:46:00 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	10/15/2012 8:46:00 PM
2-Hexanone	ND	0.50		mg/Kg	1	10/15/2012 8:46:00 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	10/15/2012 8:46:00 PM
Methylene chloride	ND	0.15		mg/Kg	1	10/15/2012 8:46:00 PM
n-Butylbenzene	ND	0.15		mg/Kg	1	10/15/2012 8:46:00 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Styrene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	10/15/2012 8:46:00 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	10/15/2012 8:46:00 PM
Vinyl chloride	ND	0.050		mg/Kg	1	10/15/2012 8:46:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/15/2012 8:46:00 PM
Surr: 1,2-Dichloroethane-d4	93.6	70-130		%REC	1	10/15/2012 8:46:00 PM
Surr: 4-Bromofluorobenzene	92.2	70-130		%REC	1	10/15/2012 8:46:00 PM
Surr: Dibromofluoromethane	94.4	70-130		%REC	1	10/15/2012 8:46:00 PM
Surr: Toluene-d8	99.2	70-130		%REC	1	10/15/2012 8:46:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (10-12')

Project: SWMU NO.1

Collection Date: 10/3/2012 5:30:00 PM

Lab ID: 1210332-012

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/8/2012 10:22:00 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/8/2012 10:22:00 AM
Surr: DNOP	99.0	77.6-140		%REC	1	10/8/2012 10:22:00 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 8:40:29 PM
Surr: BFB	103	84-116		%REC	1	10/6/2012 8:40:29 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 11:38:40 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 11:00:15 AM
Arsenic	ND	12		mg/Kg	5	10/11/2012 11:00:15 AM
Barium	610	5.0		mg/Kg	50	10/11/2012 12:31:20 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 11:00:15 AM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 11:00:15 AM
Chromium	11	1.5		mg/Kg	5	10/11/2012 11:00:15 AM
Cobalt	3.3	1.5		mg/Kg	5	10/11/2012 11:00:15 AM
Iron	9200	500		mg/Kg	500	10/11/2012 12:44:37 PM
Lead	3.9	1.2		mg/Kg	5	10/11/2012 11:00:15 AM
Manganese	1300	5.0		mg/Kg	50	10/11/2012 12:31:20 PM
Nickel	4.5	2.5		mg/Kg	5	10/11/2012 11:00:15 AM
Selenium	ND	12		mg/Kg	5	10/11/2012 11:00:15 AM
Silver	ND	1.2		mg/Kg	5	10/11/2012 11:00:15 AM
Vanadium	15	12		mg/Kg	5	10/11/2012 11:00:15 AM
Zinc	ND	12		mg/Kg	5	10/11/2012 11:00:15 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Benzoic acid	ND	0.50		mg/Kg	1	10/9/2012 10:49:25 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (10-12')

Project: SWMU NO.1

Collection Date: 10/3/2012 5:30:00 PM

Lab ID: 1210332-012

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/9/2012 10:49:25 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 10:49:25 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/9/2012 10:49:25 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 10:49:25 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/9/2012 10:49:25 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 10:49:25 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 10:49:25 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 10:49:25 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/9/2012 10:49:25 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 10:49:25 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 10:49:25 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 10:49:25 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 10:49:25 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Isophorone	ND	0.50		mg/Kg	1	10/9/2012 10:49:25 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
2-Methylphenol	ND	0.50		mg/Kg	1	10/9/2012 10:49:25 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (10-12')

Project: SWMU NO.1

Collection Date: 10/3/2012 5:30:00 PM

Lab ID: 1210332-012

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 10:49:25 PM
Nitrobenzene	ND	0.50		mg/Kg	1	10/9/2012 10:49:25 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 10:49:25 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 10:49:25 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Pyridine	ND	0.50		mg/Kg	1	10/9/2012 10:49:25 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 10:49:25 PM
Surr: 2,4,6-Tribromophenol	96.0	21.3-145		%REC	1	10/9/2012 10:49:25 PM
Surr: 2-Fluorobiphenyl	82.9	20-131		%REC	1	10/9/2012 10:49:25 PM
Surr: 2-Fluorophenol	82.0	11.9-130		%REC	1	10/9/2012 10:49:25 PM
Surr: 4-Terphenyl-d14	76.7	25.1-149		%REC	1	10/9/2012 10:49:25 PM
Surr: Nitrobenzene-d5	80.1	25.6-137		%REC	1	10/9/2012 10:49:25 PM
Surr: Phenol-d5	80.7	20.3-132		%REC	1	10/9/2012 10:49:25 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Toluene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Ethylbenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Xylenes, Total	ND	0.00182		mg/Kg	1	10/9/2012 1:01:16 AM
Methyl tert-butyl ether (MTBE)	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,2,4-Trimethylbenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,3,5-Trimethylbenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,2-Dichloroethane (EDC)	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,2-Dibromoethane (EDB)	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Naphthalene	ND	0.00182		mg/Kg	1	10/9/2012 1:01:16 AM
1-Methylnaphthalene	ND	0.00363		mg/Kg	1	10/9/2012 1:01:16 AM
2-Methylnaphthalene	ND	0.00363		mg/Kg	1	10/9/2012 1:01:16 AM
Acetone	0.0614	0.00909		mg/Kg	1	10/9/2012 1:01:16 AM
Bromobenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Bromodichloromethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Bromoform	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Bromomethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
2-Butanone	0.0142	0.00909		mg/Kg	1	10/9/2012 1:01:16 AM
Carbon tetrachloride	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Chlorobenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Chloroethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (10-12')

Project: SWMU NO.1

Collection Date: 10/3/2012 5:30:00 PM

Lab ID: 1210332-012

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Chloromethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
2-Chlorotoluene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Carbon disulfide	ND	0.00909		mg/Kg	1	10/9/2012 1:01:16 AM
4-Chlorotoluene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
cis-1,2-DCE	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
cis-1,3-Dichloropropene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,2-Dibromo-3-chloropropane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Dibromochloromethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Dibromomethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,2-Dichlorobenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,3-Dichlorobenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,4-Dichlorobenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Dichlorodifluoromethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,1-Dichloroethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,1-Dichloroethene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,2-Dichloropropane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,3-Dichloropropane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
2,2-Dichloropropane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,1-Dichloropropene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Hexachlorobutadiene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Isopropylbenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
4-Isopropyltoluene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Methylene chloride	ND	0.00273		mg/Kg	1	10/9/2012 1:01:16 AM
n-Butylbenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
2-Hexanone	ND	0.00909		mg/Kg	1	10/9/2012 1:01:16 AM
n-Propylbenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
sec-Butylbenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Styrene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
4-Methyl-2-pentanone	ND	0.00909		mg/Kg	1	10/9/2012 1:01:16 AM
tert-Butylbenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,1,1,2-Tetrachloroethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,1,2,2-Tetrachloroethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Tetrachloroethene (PCE)	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
trans-1,2-DCE	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
trans-1,3-Dichloropropene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,2,3-Trichlorobenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,2,4-Trichlorobenzene	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,1,1-Trichloroethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
1,1,2-Trichloroethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Trichloroethene (TCE)	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Trichlorofluoromethane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (10-12')

Project: SWMU NO.1

Collection Date: 10/3/2012 5:30:00 PM

Lab ID: 1210332-012

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Vinyl chloride	ND	0.000909		mg/Kg	1	10/9/2012 1:01:16 AM
Surr: 1,2-Dichloroethane-d4	100	70-130		%REC	1	10/9/2012 1:01:16 AM
Surr: 4-Bromofluorobenzene	106	70-130		%REC	1	10/9/2012 1:01:16 AM
Surr: Dibromofluoromethane	105	70-130		%REC	1	10/9/2012 1:01:16 AM
Surr: Toluene-d8	106	70-130		%REC	1	10/9/2012 1:01:16 AM

Qualifiers:

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E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (14-16')

Project: SWMU NO.1

Collection Date: 10/3/2012 5:45:00 PM

Lab ID: 1210332-013

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/6/2012 11:24:06 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/6/2012 11:24:06 PM
Surr: DNOP	99.0	77.6-140		%REC	1	10/6/2012 11:24:06 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2012 9:40:48 PM
Surr: BFB	95.0	84-116		%REC	1	10/6/2012 9:40:48 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 11:40:27 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 11:05:28 AM
Arsenic	ND	12		mg/Kg	5	10/11/2012 11:05:28 AM
Barium	640	5.0		mg/Kg	50	10/11/2012 12:47:28 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 11:05:28 AM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 11:05:28 AM
Chromium	11	1.5		mg/Kg	5	10/11/2012 11:05:28 AM
Cobalt	3.9	1.5		mg/Kg	5	10/11/2012 11:05:28 AM
Iron	11000	500		mg/Kg	500	10/11/2012 12:49:54 PM
Lead	4.4	1.2		mg/Kg	5	10/11/2012 11:05:28 AM
Manganese	1200	5.0		mg/Kg	50	10/11/2012 12:47:28 PM
Nickel	5.9	2.5		mg/Kg	5	10/11/2012 11:05:28 AM
Selenium	ND	12		mg/Kg	5	10/11/2012 11:05:28 AM
Silver	ND	1.2		mg/Kg	5	10/11/2012 11:05:28 AM
Vanadium	19	12		mg/Kg	5	10/11/2012 11:05:28 AM
Zinc	14	12		mg/Kg	5	10/11/2012 11:05:28 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Acenaphthylene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Aniline	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Anthracene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Azobenzene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Benzoic acid	ND	0.50		mg/Kg	1	10/9/2012 11:18:52 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM

Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (14-16')

Project: SWMU NO.1

Collection Date: 10/3/2012 5:45:00 PM

Lab ID: 1210332-013

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/9/2012 11:18:52 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Carbazole	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 11:18:52 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/9/2012 11:18:52 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/9/2012 11:18:52 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Chrysene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/9/2012 11:18:52 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/9/2012 11:18:52 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Dibenzofuran	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/9/2012 11:18:52 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/9/2012 11:18:52 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/9/2012 11:18:52 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/9/2012 11:18:52 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/9/2012 11:18:52 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 11:18:52 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/9/2012 11:18:52 PM
Fluoranthene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Fluorene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Hexachloroethane	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Isophorone	ND	0.50		mg/Kg	1	10/9/2012 11:18:52 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
2-Methylphenol	ND	0.50		mg/Kg	1	10/9/2012 11:18:52 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Naphthalene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (14-16')

Project: SWMU NO.1

Collection Date: 10/3/2012 5:45:00 PM

Lab ID: 1210332-013

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/9/2012 11:18:52 PM
Nitrobenzene	ND	0.50		mg/Kg	1	10/9/2012 11:18:52 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/9/2012 11:18:52 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/9/2012 11:18:52 PM
Phenanthrene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Phenol	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Pyrene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Pyridine	ND	0.50		mg/Kg	1	10/9/2012 11:18:52 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/9/2012 11:18:52 PM
Surr: 2,4,6-Tribromophenol	99.8	21.3-145		%REC	1	10/9/2012 11:18:52 PM
Surr: 2-Fluorobiphenyl	87.7	20-131		%REC	1	10/9/2012 11:18:52 PM
Surr: 2-Fluorophenol	94.2	11.9-130		%REC	1	10/9/2012 11:18:52 PM
Surr: 4-Terphenyl-d14	78.0	25.1-149		%REC	1	10/9/2012 11:18:52 PM
Surr: Nitrobenzene-d5	91.1	25.6-137		%REC	1	10/9/2012 11:18:52 PM
Surr: Phenol-d5	93.7	20.3-132		%REC	1	10/9/2012 11:18:52 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Toluene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Ethylbenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Xylenes, Total	ND	0.00189		mg/Kg	1	10/9/2012 1:32:00 AM
Methyl tert-butyl ether (MTBE)	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,2,4-Trimethylbenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,3,5-Trimethylbenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,2-Dichloroethane (EDC)	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,2-Dibromoethane (EDB)	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Naphthalene	ND	0.00189		mg/Kg	1	10/9/2012 1:32:00 AM
1-Methylnaphthalene	ND	0.00379		mg/Kg	1	10/9/2012 1:32:00 AM
2-Methylnaphthalene	ND	0.00379		mg/Kg	1	10/9/2012 1:32:00 AM
Acetone	0.0891	0.00947		mg/Kg	1	10/9/2012 1:32:00 AM
Bromobenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Bromodichloromethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Bromoform	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Bromomethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
2-Butanone	0.0179	0.00947		mg/Kg	1	10/9/2012 1:32:00 AM
Carbon tetrachloride	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Chlorobenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Chloroethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (14-16')

Project: SWMU NO.1

Collection Date: 10/3/2012 5:45:00 PM

Lab ID: 1210332-013

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Chloromethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
2-Chlorotoluene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Carbon disulfide	ND	0.00947		mg/Kg	1	10/9/2012 1:32:00 AM
4-Chlorotoluene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
cis-1,2-DCE	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
cis-1,3-Dichloropropene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,2-Dibromo-3-chloropropane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Dibromochloromethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Dibromomethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,2-Dichlorobenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,3-Dichlorobenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,4-Dichlorobenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Dichlorodifluoromethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,1-Dichloroethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,1-Dichloroethene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,2-Dichloropropane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,3-Dichloropropane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
2,2-Dichloropropane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,1-Dichloropropene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Hexachlorobutadiene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Isopropylbenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
4-Isopropyltoluene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Methylene chloride	ND	0.00284		mg/Kg	1	10/9/2012 1:32:00 AM
n-Butylbenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
2-Hexanone	ND	0.00947		mg/Kg	1	10/9/2012 1:32:00 AM
n-Propylbenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
sec-Butylbenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Styrene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
4-Methyl-2-pentanone	ND	0.00947		mg/Kg	1	10/9/2012 1:32:00 AM
tert-Butylbenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,1,1,2-Tetrachloroethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,1,2,2-Tetrachloroethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Tetrachloroethene (PCE)	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
trans-1,2-DCE	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
trans-1,3-Dichloropropene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,2,3-Trichlorobenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,2,4-Trichlorobenzene	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,1,1-Trichloroethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
1,1,2-Trichloroethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Trichloroethene (TCE)	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Trichlorofluoromethane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (14-16')

Project: SWMU NO.1

Collection Date: 10/3/2012 5:45:00 PM

Lab ID: 1210332-013

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Vinyl chloride	ND	0.000947		mg/Kg	1	10/9/2012 1:32:00 AM
Surr: 1,2-Dichloroethane-d4	96.1	70-130		%REC	1	10/9/2012 1:32:00 AM
Surr: 4-Bromofluorobenzene	99.3	70-130		%REC	1	10/9/2012 1:32:00 AM
Surr: Dibromofluoromethane	98.0	70-130		%REC	1	10/9/2012 1:32:00 AM
Surr: Toluene-d8	96.4	70-130		%REC	1	10/9/2012 1:32:00 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (16-18')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:00:00 PM

Lab ID: 1210332-014

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/6/2012 11:49:13 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/6/2012 11:49:13 PM
Surr: DNOP	97.4	77.6-140		%REC	1	10/6/2012 11:49:13 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/8/2012 7:26:27 PM
Surr: BFB	81.7	84-116	S	%REC	1	10/8/2012 7:26:27 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 11:42:19 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 11:10:31 AM
Arsenic	ND	12		mg/Kg	5	10/11/2012 11:10:31 AM
Barium	690	5.0		mg/Kg	50	10/11/2012 12:52:45 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 11:10:31 AM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 11:10:31 AM
Chromium	7.9	1.5		mg/Kg	5	10/11/2012 11:10:31 AM
Cobalt	3.7	1.5		mg/Kg	5	10/11/2012 11:10:31 AM
Iron	15000	500		mg/Kg	500	10/11/2012 12:55:08 PM
Lead	7.7	1.2		mg/Kg	5	10/11/2012 11:10:31 AM
Manganese	1400	5.0		mg/Kg	50	10/11/2012 12:52:45 PM
Nickel	5.1	2.5		mg/Kg	5	10/11/2012 11:10:31 AM
Selenium	ND	12		mg/Kg	5	10/11/2012 11:10:31 AM
Silver	ND	1.2		mg/Kg	5	10/11/2012 11:10:31 AM
Vanadium	34	12		mg/Kg	5	10/11/2012 11:10:31 AM
Zinc	ND	12		mg/Kg	5	10/11/2012 11:10:31 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Benzoic acid	ND	0.50		mg/Kg	1	10/10/2012 10:20:31 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (16-18')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:00:00 PM

Lab ID: 1210332-014

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/10/2012 10:20:31 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 10:20:31 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/10/2012 10:20:31 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 10:20:31 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/10/2012 10:20:31 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 10:20:31 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 10:20:31 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 10:20:31 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 10:20:31 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 10:20:31 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 10:20:31 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 10:20:31 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 10:20:31 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Fluorene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Isophorone	ND	0.50		mg/Kg	1	10/10/2012 10:20:31 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
2-Methylphenol	ND	0.50		mg/Kg	1	10/10/2012 10:20:31 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Naphthalene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (16-18')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:00:00 PM

Lab ID: 1210332-014

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 10:20:31 AM
Nitrobenzene	ND	0.50		mg/Kg	1	10/10/2012 10:20:31 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 10:20:31 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 10:20:31 AM
Phenanthrene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Pyridine	ND	0.50		mg/Kg	1	10/10/2012 10:20:31 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 10:20:31 AM
Surr: 2,4,6-Tribromophenol	89.7	21.3-145		%REC	1	10/10/2012 10:20:31 AM
Surr: 2-Fluorobiphenyl	83.9	20-131		%REC	1	10/10/2012 10:20:31 AM
Surr: 2-Fluorophenol	98.1	11.9-130		%REC	1	10/10/2012 10:20:31 AM
Surr: 4-Terphenyl-d14	70.5	25.1-149		%REC	1	10/10/2012 10:20:31 AM
Surr: Nitrobenzene-d5	91.1	25.6-137		%REC	1	10/10/2012 10:20:31 AM
Surr: Phenol-d5	95.7	20.3-132		%REC	1	10/10/2012 10:20:31 AM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Toluene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Ethylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Xylenes, Total	ND	0.00208		mg/Kg	1	10/9/2012 2:02:39 AM
Methyl tert-butyl ether (MTBE)	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,2,4-Trimethylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,3,5-Trimethylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,2-Dichloroethane (EDC)	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,2-Dibromoethane (EDB)	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Naphthalene	ND	0.00208		mg/Kg	1	10/9/2012 2:02:39 AM
1-Methylnaphthalene	ND	0.00417		mg/Kg	1	10/9/2012 2:02:39 AM
2-Methylnaphthalene	ND	0.00417		mg/Kg	1	10/9/2012 2:02:39 AM
Acetone	0.0379	0.0104		mg/Kg	1	10/9/2012 2:02:39 AM
Bromobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Bromodichloromethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Bromoform	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Bromomethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
2-Butanone	ND	0.0104		mg/Kg	1	10/9/2012 2:02:39 AM
Carbon tetrachloride	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Chlorobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Chloroethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (16-18')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:00:00 PM

Lab ID: 1210332-014

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Chloromethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
2-Chlorotoluene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Carbon disulfide	ND	0.0104		mg/Kg	1	10/9/2012 2:02:39 AM
4-Chlorotoluene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
cis-1,2-DCE	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
cis-1,3-Dichloropropene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,2-Dibromo-3-chloropropane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Dibromochloromethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Dibromomethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,2-Dichlorobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,3-Dichlorobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,4-Dichlorobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Dichlorodifluoromethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,1-Dichloroethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,1-Dichloroethene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,2-Dichloropropane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,3-Dichloropropane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
2,2-Dichloropropane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,1-Dichloropropene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Hexachlorobutadiene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Isopropylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
4-Isopropyltoluene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Methylene chloride	ND	0.00313		mg/Kg	1	10/9/2012 2:02:39 AM
n-Butylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
2-Hexanone	ND	0.0104		mg/Kg	1	10/9/2012 2:02:39 AM
n-Propylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
sec-Butylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Styrene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
4-Methyl-2-pentanone	ND	0.0104		mg/Kg	1	10/9/2012 2:02:39 AM
tert-Butylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,1,1,2-Tetrachloroethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,1,2,2-Tetrachloroethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Tetrachloroethene (PCE)	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
trans-1,2-DCE	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
trans-1,3-Dichloropropene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,2,3-Trichlorobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,2,4-Trichlorobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,1,1-Trichloroethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
1,1,2-Trichloroethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Trichloroethene (TCE)	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Trichlorofluoromethane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (16-18')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:00:00 PM

Lab ID: 1210332-014

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Vinyl chloride	ND	0.00104		mg/Kg	1	10/9/2012 2:02:39 AM
Surr: 1,2-Dichloroethane-d4	99.7	70-130		%REC	1	10/9/2012 2:02:39 AM
Surr: 4-Bromofluorobenzene	94.4	70-130		%REC	1	10/9/2012 2:02:39 AM
Surr: Dibromofluoromethane	101	70-130		%REC	1	10/9/2012 2:02:39 AM
Surr: Toluene-d8	102	70-130		%REC	1	10/9/2012 2:02:39 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (24-25')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:10:00 PM

Lab ID: 1210332-015

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/7/2012 12:14:21 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/7/2012 12:14:21 AM
Surr: DNOP	95.8	77.6-140		%REC	1	10/7/2012 12:14:21 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/8/2012 7:56:22 PM
Surr: BFB	88.5	84-116		%REC	1	10/8/2012 7:56:22 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 11:29:40 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 2:22:14 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 11:29:11 AM
Barium	630	5.0		mg/Kg	50	10/11/2012 12:57:46 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 11:29:11 AM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 11:29:11 AM
Chromium	7.7	1.5		mg/Kg	5	10/11/2012 11:29:11 AM
Cobalt	3.5	1.5		mg/Kg	5	10/11/2012 11:29:11 AM
Iron	8700	500		mg/Kg	500	10/11/2012 1:00:09 PM
Lead	3.5	1.2		mg/Kg	5	10/11/2012 11:29:11 AM
Manganese	1200	5.0		mg/Kg	50	10/11/2012 12:57:46 PM
Nickel	4.9	2.5		mg/Kg	5	10/11/2012 11:29:11 AM
Selenium	ND	12		mg/Kg	5	10/11/2012 11:29:11 AM
Silver	ND	1.2		mg/Kg	5	10/11/2012 11:29:11 AM
Vanadium	14	12		mg/Kg	5	10/11/2012 11:29:11 AM
Zinc	ND	12		mg/Kg	5	10/11/2012 11:29:11 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Benzoic acid	ND	0.50		mg/Kg	1	10/10/2012 2:35:58 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (24-25')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:10:00 PM

Lab ID: 1210332-015

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/10/2012 2:35:58 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 2:35:58 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/10/2012 2:35:58 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 2:35:58 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/10/2012 2:35:58 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 2:35:58 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 2:35:58 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 2:35:58 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 2:35:58 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 2:35:58 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 2:35:58 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 2:35:58 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 2:35:58 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Fluorene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Isophorone	ND	0.50		mg/Kg	1	10/10/2012 2:35:58 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
2-Methylphenol	ND	0.50		mg/Kg	1	10/10/2012 2:35:58 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Naphthalene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (24-25')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:10:00 PM

Lab ID: 1210332-015

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 2:35:58 AM
Nitrobenzene	ND	0.50		mg/Kg	1	10/10/2012 2:35:58 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 2:35:58 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 2:35:58 AM
Phenanthrene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Pyridine	ND	0.50		mg/Kg	1	10/10/2012 2:35:58 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 2:35:58 AM
Surr: 2,4,6-Tribromophenol	84.6	21.3-145		%REC	1	10/10/2012 2:35:58 AM
Surr: 2-Fluorobiphenyl	87.7	20-131		%REC	1	10/10/2012 2:35:58 AM
Surr: 2-Fluorophenol	84.5	11.9-130		%REC	1	10/10/2012 2:35:58 AM
Surr: 4-Terphenyl-d14	80.6	25.1-149		%REC	1	10/10/2012 2:35:58 AM
Surr: Nitrobenzene-d5	101	25.6-137		%REC	1	10/10/2012 2:35:58 AM
Surr: Phenol-d5	92.9	20.3-132		%REC	1	10/10/2012 2:35:58 AM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	0.00403	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Toluene	0.00910	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Ethylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Xylenes, Total	ND	0.00207		mg/Kg	1	10/9/2012 2:33:23 AM
Methyl tert-butyl ether (MTBE)	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,2,4-Trimethylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,3,5-Trimethylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,2-Dichloroethane (EDC)	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,2-Dibromoethane (EDB)	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Naphthalene	ND	0.00207		mg/Kg	1	10/9/2012 2:33:23 AM
1-Methylnaphthalene	ND	0.00414		mg/Kg	1	10/9/2012 2:33:23 AM
2-Methylnaphthalene	ND	0.00414		mg/Kg	1	10/9/2012 2:33:23 AM
Acetone	0.0485	0.0104		mg/Kg	1	10/9/2012 2:33:23 AM
Bromobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Bromodichloromethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Bromoform	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Bromomethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
2-Butanone	ND	0.0104		mg/Kg	1	10/9/2012 2:33:23 AM
Carbon tetrachloride	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Chlorobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Chloroethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (24-25')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:10:00 PM

Lab ID: 1210332-015

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Chloromethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
2-Chlorotoluene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Carbon disulfide	ND	0.0104		mg/Kg	1	10/9/2012 2:33:23 AM
4-Chlorotoluene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
cis-1,2-DCE	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
cis-1,3-Dichloropropene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,2-Dibromo-3-chloropropane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Dibromochloromethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Dibromomethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,2-Dichlorobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,3-Dichlorobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,4-Dichlorobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Dichlorodifluoromethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,1-Dichloroethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,1-Dichloroethene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,2-Dichloropropane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,3-Dichloropropane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
2,2-Dichloropropane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,1-Dichloropropene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Hexachlorobutadiene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Isopropylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
4-Isopropyltoluene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Methylene chloride	ND	0.00311		mg/Kg	1	10/9/2012 2:33:23 AM
n-Butylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
2-Hexanone	ND	0.0104		mg/Kg	1	10/9/2012 2:33:23 AM
n-Propylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
sec-Butylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Styrene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
4-Methyl-2-pentanone	ND	0.0104		mg/Kg	1	10/9/2012 2:33:23 AM
tert-Butylbenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,1,1,2-Tetrachloroethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,1,2,2-Tetrachloroethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Tetrachloroethene (PCE)	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
trans-1,2-DCE	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
trans-1,3-Dichloropropene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,2,3-Trichlorobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,2,4-Trichlorobenzene	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,1,1-Trichloroethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
1,1,2-Trichloroethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Trichloroethene (TCE)	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Trichlorofluoromethane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210332

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 (24-25')

Project: SWMU NO.1

Collection Date: 10/3/2012 6:10:00 PM

Lab ID: 1210332-015

Matrix: SOIL

Received Date: 10/5/2012 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Vinyl chloride	ND	0.00104		mg/Kg	1	10/9/2012 2:33:23 AM
Surr: 1,2-Dichloroethane-d4	118	70-130		%REC	1	10/9/2012 2:33:23 AM
Surr: 4-Bromofluorobenzene	81.0	70-130		%REC	1	10/9/2012 2:33:23 AM
Surr: Dibromofluoromethane	99.8	70-130		%REC	1	10/9/2012 2:33:23 AM
Surr: Toluene-d8	97.9	70-130		%REC	1	10/9/2012 2:33:23 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 121009047
Project Name: 1210332

Analytical Results Report

Sample Number	121009047-001	Sampling Date	10/3/2012	Date/Time Received	10/9/2012	12:00 P	
Client Sample ID	1210332-001D / SWMU 1-4 (10-12)DUP			Sampling Time	1:15 PM		
Matrix	Soil	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	11.8	Percent				%moisture	

Sample Number	121009047-002	Sampling Date	10/3/2012	Date/Time Received	10/9/2012	12:00 P	
Client Sample ID	1210332-002D / SWMU 1-4 (17-18)			Sampling Time	1:45 PM		
Matrix	Soil	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	1.59	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	21	Percent				%moisture	

Sample Number	121009047-003	Sampling Date	10/3/2012	Date/Time Received	10/9/2012	12:00 P	
Client Sample ID	1210332-003D / SWMU 1-4 (23-24)			Sampling Time	2:00 PM		
Matrix	Soil	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	16.4	Percent				%moisture	

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Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 121009047
Project Name: 1210332

Analytical Results Report

Sample Number	121009047-004	Sampling Date	10/3/2012	Date/Time Received	10/9/2012 12:00 P
Client Sample ID	1210332-005F / SWMU 1-3 GW			Sampling Time	9:30 AM
Matrix	Water	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	0.0325	mg/L	0.01	10/16/2012	CRW	EPA 335.4	

Sample Number	121009047-005	Sampling Date	10/3/2012	Date/Time Received	10/9/2012 12:00 P
Client Sample ID	1210332-006D / SWMU 1-4 (8-10)			Sampling Time	1:00 PM
Matrix	Soil	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/15/2012	CRW	EPA 335.4	
%moisture	13.2	Percent				%moisture	

Sample Number	121009047-006	Sampling Date	10/3/2012	Date/Time Received	10/9/2012 12:00 P
Client Sample ID	1210332-007D / SWMU 1-4 (10-12)			Sampling Time	1:15 PM
Matrix	Soil	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/17/2012	CRW	EPA 335.4	
%moisture	10.5	Percent				%moisture	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 121009047
Project Name: 1210332

Analytical Results Report

Sample Number	121009047-007	Sampling Date	10/3/2012	Date/Time Received	10/9/2012	12:00 P	
Client Sample ID	1210332-008D / SWMU 1-5 (26-27)			Sampling Time	6:20 PM		
Matrix	Soil	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/17/2012	CRW	EPA 335.4	
%moisture	19	Percent				%moisture	

Sample Number	121009047-008	Sampling Date	10/3/2012	Date/Time Received	10/9/2012	12:00 P	
Client Sample ID	1210332-009D / SWMU 1-5 (27-28)			Sampling Time	6:30 PM		
Matrix	Soil	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/17/2012	CRW	EPA 335.4	
%moisture	12.5	Percent				%moisture	

Sample Number	121009047-009	Sampling Date	10/3/2012	Date/Time Received	10/9/2012	12:00 P	
Client Sample ID	1210332-010F / EB100312			Sampling Time	6:44 PM		
Matrix	Water	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/L	0.01	10/16/2012	CRW	EPA 335.4	

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ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 121009047
Project Name: 1210332

Analytical Results Report

Sample Number	121009047-010	Sampling Date	10/3/2012	Date/Time Received	10/9/2012 12:00 P
Client Sample ID	1210332-012D / SWMU 1-5 (10-12)			Sampling Time	5:30 PM
Matrix	Soil	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/17/2012	CRW	EPA 335.4	
%moisture	8.5	Percent				%moisture	

Sample Number	121009047-011	Sampling Date	10/3/2012	Date/Time Received	10/9/2012 12:00 P
Client Sample ID	1210332-013D / SWMU 1-5 (14-16)			Sampling Time	5:45 PM
Matrix	Soil	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/17/2012	CRW	EPA 335.4	
%moisture	12.6	Percent				%moisture	

Sample Number	121009047-012	Sampling Date	10/3/2012	Date/Time Received	10/9/2012 12:00 P
Client Sample ID	1210332-014D / SWMU 1-5 (16-18)			Sampling Time	6:00 PM
Matrix	Soil	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/17/2012	CRW	EPA 335.4	
%moisture	10.9	Percent				%moisture	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
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Attn: ANDY FREEMAN

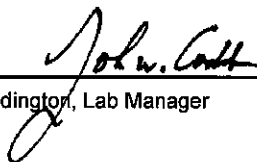
Batch #: 121009047
Project Name: 1210332

Analytical Results Report

Sample Number	121009047-013	Sampling Date	10/3/2012	Date/Time Received	10/9/2012 12:00 P
Client Sample ID	1210332-015D / SWMU 1-5 (24-25)	Sampling Time	6:10 PM		
Matrix	Soil	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/17/2012	CRW	EPA 335.4	
%moisture	16.1	Percent				%moisture	

Authorized Signature


John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB		SampType:	MBLK		TestCode:	EPA Method 200.7: Metals			
Client ID:	PBW		Batch ID:	R6141		RunNo:	6141			
Prep Date:			Analysis Date:	10/10/2012		SeqNo:	176939	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Beryllium	ND	0.0020								
Cadmium	ND	0.0020								
Cobalt	ND	0.0060								
Iron	ND	0.020								
Manganese	ND	0.0020								
Nickel	ND	0.010								
Silver	ND	0.0050								
Vanadium	ND	0.050								

Sample ID	LCS		SampType:	LCS		TestCode:	EPA Method 200.7: Metals			
Client ID:	LCSW		Batch ID:	R6141		RunNo:	6141			
Prep Date:			Analysis Date:	10/10/2012		SeqNo:	176940	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0	98.6	85	115			
Beryllium	0.51	0.0020	0.5000	0	101	85	115			
Cadmium	0.50	0.0020	0.5000	0	100	85	115			
Cobalt	0.48	0.0060	0.5000	0	96.2	85	115			
Iron	0.49	0.020	0.5000	0	98.1	85	115			
Manganese	0.49	0.0020	0.5000	0	97.7	85	115			
Nickel	0.47	0.010	0.5000	0	94.9	85	115			
Silver	0.10	0.0050	0.1000	0	102	85	115			
Vanadium	0.51	0.050	0.5000	0	101	85	115			

Sample ID	1210368-001BMS		SampType:	MS		TestCode:	EPA Method 200.7: Metals			
Client ID:	BatchQC		Batch ID:	R6141		RunNo:	6141			
Prep Date:			Analysis Date:	10/10/2012		SeqNo:	177005	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.51	0.0020	0.5000	0.02430	96.8	70	130			
Beryllium	0.51	0.0020	0.5000	0	102	70	130			
Cadmium	0.49	0.0020	0.5000	0	97.8	70	130			

Sample ID	1210368-001BMSD		SampType:	MSD		TestCode:	EPA Method 200.7: Metals			
Client ID:	BatchQC		Batch ID:	R6141		RunNo:	6141			
Prep Date:			Analysis Date:	10/10/2012		SeqNo:	177006	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.51	0.0020	0.5000	0.02430	97.1	70	130	0.302	20	
Beryllium	0.52	0.0020	0.5000	0	103	70	130	0.724	20	
Cadmium	0.50	0.0020	0.5000	0	99.0	70	130	1.24	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 200.7: Metals					
Client ID:	PBW	Batch ID: R6212			RunNo: 6212					
Prep Date:		Analysis Date: 10/12/2012			SeqNo: 178907		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	ND	0.0060								
Zinc	ND	0.010								

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 200.7: Metals					
Client ID:	LCSW		Batch ID: R6212		RunNo: 6212					
Prep Date:			Analysis Date: 10/12/2012		SeqNo: 178908		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.50	0.0060	0.5000	0	100	85	115			
Zinc	0.51	0.010	0.5000	0	101	85	115			

Sample ID	1210368-001BMS		SampType: MS		TestCode: EPA Method 200.7: Metals					
Client ID:	BatchQC		Batch ID: R6212		RunNo: 6212					
Prep Date:			Analysis Date: 10/12/2012		SeqNo: 178913		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.50	0.0060	0.5000	0	101	70	130			

Sample ID	1210368-001BMSD		SampType: MSD		TestCode: EPA Method 200.7: Metals					
Client ID:	BatchQC		Batch ID: R6212		RunNo: 6212					
Prep Date:			Analysis Date: 10/12/2012		SeqNo: 178914		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.50	0.0060	0.5000	0	99.2	70	130	1.42	20	

Sample ID	MB-4293		SampType: MBLK		TestCode: EPA Method 200.7: Metals					
Client ID:	PBW		Batch ID: 4293		RunNo: 6265					
Prep Date:	10/15/2012		Analysis Date: 10/16/2012		SeqNo: 180580		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Beryllium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Iron	ND	0.020								
Manganese	ND	0.0020								
Nickel	ND	0.010								
Silver	ND	0.0050								
Vanadium	ND	0.050								
Zinc	ND	0.010								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	LCS-4293		SampType: LCS			TestCode: EPA Method 200.7: Metals				
Client ID:	LCSW		Batch ID: 4293			RunNo: 6265				
Prep Date:	10/15/2012		Analysis Date: 10/16/2012			SeqNo: 180581		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.51	0.0020	0.5000	0	102	85	115			
Beryllium	0.53	0.0020	0.5000	0	106	85	115			
Cadmium	0.53	0.0020	0.5000	0	106	85	115			
Chromium	0.51	0.0060	0.5000	0	101	85	115			
Cobalt	0.50	0.0060	0.5000	0	101	85	115			
Iron	0.51	0.020	0.5000	0	102	85	115			
Manganese	0.51	0.0020	0.5000	0	101	85	115			
Nickel	0.49	0.010	0.5000	0	98.2	85	115			
Silver	0.11	0.0050	0.1000	0	107	85	115			
Vanadium	0.52	0.050	0.5000	0	105	85	115			
Zinc	0.50	0.010	0.5000	0	101	85	115			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4293		SampType:	MBLK		TestCode:	EPA 200.8: Metals			
Client ID:	PBW		Batch ID:	4293		RunNo:	6249			
Prep Date:	10/15/2012		Analysis Date:	10/15/2012		SeqNo:	179961		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0025								
Arsenic	ND	0.0025								
Lead	ND	0.0025								
Selenium	ND	0.0025								

Sample ID	1210046-001AMS		SampType:	MS		TestCode:	EPA 200.8: Metals			
Client ID:	BatchQC		Batch ID:	R6315		RunNo:	6315			
Prep Date:			Analysis Date:	10/17/2012		SeqNo:	181878		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.027	0.0010	0.02500	0.001891	99.5	70	130			

Sample ID	1210367-001BMS		SampType:	MS		TestCode:	EPA 200.8: Metals			
Client ID:	BatchQC		Batch ID:	R6315		RunNo:	6315			
Prep Date:			Analysis Date:	10/17/2012		SeqNo:	181885		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.025	0.0010	0.02500	0	98.6	70	130			
Arsenic	0.035	0.0010	0.02500	0.01018	101	70	130			
Selenium	0.031	0.0010	0.02500	0.005490	104	70	130			

Sample ID	LCS		SampType:	LCS		TestCode:	EPA 200.8: Metals			
Client ID:	LCSW		Batch ID:	R6315		RunNo:	6315			
Prep Date:			Analysis Date:	10/17/2012		SeqNo:	181905		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.025	0.0010	0.02500	0	101	85	115			
Arsenic	0.026	0.0010	0.02500	0	102	85	115			
Lead	0.025	0.0010	0.02500	0	99.9	85	115			
Selenium	0.026	0.0010	0.02500	0	106	85	115			

Sample ID	LCS		SampType:	LCS		TestCode:	EPA 200.8: Metals			
Client ID:	LCSW		Batch ID:	R6315		RunNo:	6315			
Prep Date:			Analysis Date:	10/17/2012		SeqNo:	181906		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.025	0.0010	0.02500	0	101	85	115			
Arsenic	0.026	0.0010	0.02500	0	102	85	115			
Lead	0.025	0.0010	0.02500	0	99.6	85	115			
Selenium	0.027	0.0010	0.02500	0	106	85	115			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	LCS		SampType: LCS			TestCode: EPA 200.8: Metals				
Client ID:	LCSW		Batch ID: R6315			RunNo: 6315				
Prep Date:			Analysis Date: 10/17/2012			SeqNo: 181907		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.024	0.0010	0.02500	0	96.7	85	115			
Arsenic	0.025	0.0010	0.02500	0	101	85	115			
Lead	0.025	0.0010	0.02500	0	100	85	115			
Selenium	0.026	0.0010	0.02500	0	106	85	115			

Sample ID	MB		SampType: MBLK			TestCode: EPA 200.8: Metals				
Client ID:	PBW		Batch ID: R6315			RunNo: 6315				
Prep Date:			Analysis Date: 10/17/2012			SeqNo: 181909		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID	MB		SampType: MBLK			TestCode: EPA 200.8: Metals				
Client ID:	PBW		Batch ID: R6315			RunNo: 6315				
Prep Date:			Analysis Date: 10/17/2012			SeqNo: 181910		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID	MB		SampType: MBLK			TestCode: EPA 200.8: Metals				
Client ID:	PBW		Batch ID: R6315			RunNo: 6315				
Prep Date:			Analysis Date: 10/17/2012			SeqNo: 181911		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID	1210585-001CMS		SampType: MS			TestCode: EPA 200.8: Metals				
Client ID:	BatchQC		Batch ID: R6315			RunNo: 6315				
Prep Date:			Analysis Date: 10/17/2012			SeqNo: 181948		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.026	0.0010	0.02500	0	103	70	130			
Arsenic	0.026	0.0010	0.02500	0	102	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup**Project:** SWMU NO.1

Sample ID	1210585-001CMS			SampType:	MS			TestCode:	EPA 200.8: Metals		
Client ID:	BatchQC			Batch ID:	R6315			RunNo:	6315		
Prep Date:				Analysis Date:	10/17/2012			SeqNo:	181948		Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Lead	0.025	0.0010	0.02500	0	99.7	70	130				
Selenium	0.026	0.0010	0.02500	0	105	70	130				

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4279	SampType:	MBLK	TestCode:	EPA Method 245.1: Mercury					
Client ID:	PBW	Batch ID:	4279	RunNo:	6215					
Prep Date:	10/12/2012	Analysis Date:	10/12/2012	SeqNo:	179065	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-4279	SampType:	LCS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	LCSW	Batch ID:	4279	RunNo:	6215					
Prep Date:	10/12/2012	Analysis Date:	10/12/2012	SeqNo:	179066	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	97.0	80	120			

Sample ID	1210332-010EMS	SampType:	MS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	EB100312	Batch ID:	4279	RunNo:	6215					
Prep Date:	10/12/2012	Analysis Date:	10/12/2012	SeqNo:	179069	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0048	0.00020	0.005000	0	96.9	75	125			

Sample ID	1210332-010EMSD	SampType:	MSD	TestCode:	EPA Method 245.1: Mercury					
Client ID:	EB100312	Batch ID:	4279	RunNo:	6215					
Prep Date:	10/12/2012	Analysis Date:	10/12/2012	SeqNo:	179072	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	97.7	75	125	0.749	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB		SampType: MBLK			TestCode: EPA Method 300.0: Anions				
Client ID:	PBW		Batch ID: R6038			RunNo: 6038				
Prep Date:			Analysis Date: 10/5/2012			SeqNo: 173988		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID	LCS		SampType: LCS			TestCode: EPA Method 300.0: Anions				
Client ID:	LCSW		Batch ID: R6038			RunNo: 6038				
Prep Date:			Analysis Date: 10/5/2012			SeqNo: 173989		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.49	0.10	0.5000	0	98.7	90	110			
Chloride	4.6	0.50	5.000	0	91.4	90	110			
Sulfate	9.0	0.50	10.00	0	90.2	90	110			

Sample ID	1210309-005AMS		SampType: MS			TestCode: EPA Method 300.0: Anions				
Client ID:	BatchQC		Batch ID: R6038			RunNo: 6038				
Prep Date:			Analysis Date: 10/5/2012			SeqNo: 174013		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	2.2	0.10	0.5000	1.745	84.0	76.6	110			

Sample ID	1210309-005AMSD		SampType: MSD			TestCode: EPA Method 300.0: Anions				
Client ID:	BatchQC		Batch ID: R6038			RunNo: 6038				
Prep Date:			Analysis Date: 10/5/2012			SeqNo: 174014		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	2.2	0.10	0.5000	1.745	87.2	76.6	110	0.741	20	

Sample ID	1210320-001AMS		SampType: MS			TestCode: EPA Method 300.0: Anions				
Client ID:	BatchQC		Batch ID: R6038			RunNo: 6038				
Prep Date:			Analysis Date: 10/5/2012			SeqNo: 174024		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.4	0.10	0.5000	0.9401	92.6	76.6	110			

Sample ID	1210320-001AMSD		SampType: MSD			TestCode: EPA Method 300.0: Anions				
Client ID:	BatchQC		Batch ID: R6038			RunNo: 6038				
Prep Date:			Analysis Date: 10/5/2012			SeqNo: 174025		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.4	0.10	0.5000	0.9401	93.5	76.6	110	0.313	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID: R6038			RunNo: 6038					
Prep Date:		Analysis Date: 10/5/2012			SeqNo: 174043		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSW		Batch ID: R6038		RunNo: 6038					
Prep Date:			Analysis Date: 10/5/2012		SeqNo: 174044		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51	0.10	0.5000	0	102	90	110			
Chloride	4.8	0.50	5.000	0	96.7	90	110			
Sulfate	9.8	0.50	10.00	0	97.7	90	110			

Sample ID	1210361-003AMS	SampType: MS			TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID: R6038			RunNo: 6038					
Prep Date:		Analysis Date: 10/6/2012			SeqNo: 174065		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.92	0.10	0.5000	0.4398	96.0	76.6	110			
Chloride	10	0.50	5.000	4.860	105	87.8	111			
Sulfate	10	0.50	10.00	0.6275	94.7	84.6	122			

Sample ID	1210361-003AMSD		SampType: MSD		TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC		Batch ID: R6038		RunNo: 6038					
Prep Date:			Analysis Date: 10/6/2012		SeqNo: 174066		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.91	0.10	0.5000	0.4398	94.5	76.6	110	0.797	20	
Chloride	10	0.50	5.000	4.860	106	87.8	111	0.396	20	
Sulfate	10	0.50	10.00	0.6275	95.7	84.6	122	0.930	20	

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID: R6177			RunNo: 6177					
Prep Date:		Analysis Date: 10/11/2012			SeqNo: 178038		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSW		Batch ID: R6177		RunNo: 6177					
Prep Date:			Analysis Date: 10/11/2012		SeqNo: 178039		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	97.2	90	110			

Sample ID	1210607-001AMS		SampType: MS		TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC		Batch ID: R6177		RunNo: 6177					
Prep Date:			Analysis Date: 10/11/2012		SeqNo: 178041		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.5	0.50	5.000	4.628	97.8	87.8	111			

Sample ID	1210607-001AMSD		SampType: MSD		TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC		Batch ID: R6177		RunNo: 6177					
Prep Date:			Analysis Date: 10/11/2012		SeqNo: 178042		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.6	0.50	5.000	4.628	98.5	87.8	111	0.323	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4148		SampType: MBLK		TestCode: EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS		Batch ID: 4148		RunNo: 6027					
Prep Date:	10/5/2012		Analysis Date: 10/6/2012		SeqNo: 173597		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	77.6	140			

Sample ID	LCS-4148		SampType: LCS		TestCode: EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 4148		RunNo: 6027					
Prep Date:	10/5/2012		Analysis Date: 10/6/2012		SeqNo: 173599		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	35	10	50.00	0	70.2	52.6	130			
Surr: DNOP	4.4		5.000		87.4	77.6	140			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4137		SampType: MBLK		TestCode: EPA Method 8015B: Diesel Range					
Client ID:	PBW		Batch ID: 4137		RunNo: 6039					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 174081		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.1		1.000		108	79.5	166			

Sample ID	LCS-4137		SampType: LCS		TestCode: EPA Method 8015B: Diesel Range					
Client ID:	LCSW		Batch ID: 4137		RunNo: 6039					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 174082		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.2	1.0	5.000	0	104	74	157			
Surr: DNOP	0.45		0.5000		90.2	79.5	166			

Sample ID	LCSD-4137		SampType: LCSD		TestCode: EPA Method 8015B: Diesel Range					
Client ID:	LCSS02		Batch ID: 4137		RunNo: 6039					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 174083		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.5	1.0	5.000	0	109	74	157	5.45	23	
Surr: DNOP	0.45		0.5000		90.8	79.5	166	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	R6020	RunNo:	6020					
Prep Date:		Analysis Date:	10/5/2012	SeqNo:	173460	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	84	116			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	R6020	RunNo:	6020					
Prep Date:		Analysis Date:	10/5/2012	SeqNo:	173461	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.0	74	117			
Surr: BFB	820		1000		82.5	84	116			S

Sample ID	1210279-011BMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R6020	RunNo:	6020					
Prep Date:		Analysis Date:	10/6/2012	SeqNo:	173465	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	12	5.0	15.46	0	78.9	70	130			
Surr: BFB	670		618.5		108	84	116			

Sample ID	1210279-011BMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R6020	RunNo:	6020					
Prep Date:		Analysis Date:	10/6/2012	SeqNo:	173466	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	14	5.0	15.46	0	90.8	70	130	14.0	22.1	
Surr: BFB	650		618.5		105	84	116	0	0	

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	R6043	RunNo:	6043					
Prep Date:		Analysis Date:	10/6/2012	SeqNo:	174099	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		105	84	116			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	R6043	RunNo:	6043					
Prep Date:		Analysis Date:	10/6/2012	SeqNo:	174100	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.6	74	117			
Surr: BFB	870		1000		87.0	84	116			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210332-013BMS		SampType: MS		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	SWMU 1-5 (14-16')		Batch ID: R6043		RunNo: 6043					
Prep Date:			Analysis Date: 10/6/2012		SeqNo: 174108		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	5.0	17.66	0	84.7	70	130			
Surr: BFB	610		706.4		85.8	84	116			

Sample ID	1210332-013BMSD		SampType: MSD		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	SWMU 1-5 (14-16')		Batch ID: R6043		RunNo: 6043					
Prep Date:			Analysis Date: 10/6/2012		SeqNo: 174109		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	5.0	17.66	0	87.1	70	130	2.79	22.1	
Surr: BFB	670		706.4		95.3	84	116	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBW	Batch ID:	R6020	RunNo:	6020					
Prep Date:		Analysis Date:	10/5/2012	SeqNo:	173451	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	21		20.00		104	69.8	119			

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBW	Batch ID:	R6043	RunNo:	6043					
Prep Date:		Analysis Date:	10/6/2012	SeqNo:	174095	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	21		20.00		105	69.8	119			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSW	Batch ID:	R6043	RunNo:	6043					
Prep Date:		Analysis Date:	10/6/2012	SeqNo:	174096	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.47	0.050	0.5000	0	93.6	75.9	119			
Surr: BFB	17		20.00		87.0	69.8	119			

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBW	Batch ID:	R6074	RunNo:	6074					
Prep Date:		Analysis Date:	10/8/2012	SeqNo:	175153	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	20		20.00		99.3	69.8	119			

Sample ID	2.5UG GRO LCSB	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSW	Batch ID:	R6074	RunNo:	6074					
Prep Date:		Analysis Date:	10/8/2012	SeqNo:	175154	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.47	0.050	0.5000	0	93.3	75.9	119			
Surr: BFB	16		20.00		81.2	69.8	119			

Sample ID	1210333-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R6074	RunNo:	6074					
Prep Date:		Analysis Date:	10/9/2012	SeqNo:	175202	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.46	0.050	0.5000	0	92.2	63.5	131			
Surr: BFB	23		20.00		117	69.8	119			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210333-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R6074	RunNo:	6074					
Prep Date:		Analysis Date:	10/9/2012	SeqNo:	175203	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.47	0.050	0.5000	0	95.0	63.5	131	2.99	16.7	
Surr: BFB	24		20.00		122	69.8	119	0	0	S

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4139		SampType: MBLK		TestCode: Method 8260B/5035LOW: VOLATILES					
Client ID:	PBS		Batch ID: 4139		RunNo: 6123					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 176473		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00100								
Toluene	ND	0.00100								
Ethylbenzene	ND	0.00100								
Xylenes, Total	ND	0.00200								
Methyl tert-butyl ether (MTBE)	ND	0.00100								
1,2,4-Trimethylbenzene	ND	0.00100								
1,3,5-Trimethylbenzene	ND	0.00100								
1,2-Dichloroethane (EDC)	ND	0.00100								
1,2-Dibromoethane (EDB)	ND	0.00100								
Naphthalene	ND	0.00200								
1-Methylnaphthalene	ND	0.00400								
2-Methylnaphthalene	ND	0.00400								
Acetone	ND	0.0100								
Bromobenzene	ND	0.00100								
Bromodichloromethane	ND	0.00100								
Bromoform	ND	0.00100								
Bromomethane	ND	0.00100								
2-Butanone	ND	0.0100								
Carbon tetrachloride	ND	0.00100								
Chlorobenzene	ND	0.00100								
Chloroethane	ND	0.00100								
Chloroform	ND	0.00100								
Chloromethane	ND	0.00100								
2-Chlorotoluene	ND	0.00100								
Carbon disulfide	ND	0.0100								
4-Chlorotoluene	ND	0.00100								
cis-1,2-DCE	ND	0.00100								
cis-1,3-Dichloropropene	ND	0.00100								
1,2-Dibromo-3-chloropropane	ND	0.00100								
Dibromochloromethane	ND	0.00100								
Dibromomethane	ND	0.00100								
1,2-Dichlorobenzene	ND	0.00100								
1,3-Dichlorobenzene	ND	0.00100								
1,4-Dichlorobenzene	ND	0.00100								
Dichlorodifluoromethane	ND	0.00100								
1,1-Dichloroethane	ND	0.00100								
1,1-Dichloroethene	ND	0.00100								
1,2-Dichloropropane	ND	0.00100								
1,3-Dichloropropane	ND	0.00100								
2,2-Dichloropropane	ND	0.00100								
1,1-Dichloropropene	ND	0.00100								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4139		SampType: MBLK			TestCode: Method 8260B/5035LOW: VOLATILES				
Client ID:	PBS		Batch ID: 4139			RunNo: 6123				
Prep Date:	10/5/2012		Analysis Date: 10/8/2012			SeqNo: 176473		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.00100								
Isopropylbenzene	ND	0.00100								
4-Isopropyltoluene	ND	0.00100								
Methylene chloride	ND	0.00300								
n-Butylbenzene	ND	0.00100								
2-Hexanone	ND	0.0100								
n-Propylbenzene	ND	0.00100								
sec-Butylbenzene	ND	0.00100								
Styrene	ND	0.00100								
4-Methyl-2-pentanone	ND	0.0100								
tert-Butylbenzene	ND	0.00100								
1,1,1,2-Tetrachloroethane	ND	0.00100								
1,1,2,2-Tetrachloroethane	ND	0.00100								
Tetrachloroethene (PCE)	ND	0.00100								
trans-1,2-DCE	ND	0.00100								
trans-1,3-Dichloropropene	ND	0.00100								
1,2,3-Trichlorobenzene	ND	0.00100								
1,2,4-Trichlorobenzene	ND	0.00100								
1,1,1-Trichloroethane	ND	0.00100								
1,1,2-Trichloroethane	ND	0.00100								
Trichloroethene (TCE)	ND	0.00100								
Trichlorofluoromethane	ND	0.00100								
1,2,3-Trichloropropane	ND	0.00100								
Vinyl chloride	ND	0.00100								
Surr: 1,2-Dichloroethane-d4	43.5		50.00		86.9	70	130			
Surr: 4-Bromofluorobenzene	48.2		50.00		96.4	70	130			
Surr: Dibromofluoromethane	51.1		50.00		102	70	130			
Surr: Toluene-d8	48.6		50.00		97.1	70	130			

Sample ID	lcs-4139		SampType: LCS			TestCode: Method 8260B/5035LOW: VOLATILES				
Client ID:	LCSS		Batch ID: 4139			RunNo: 6123				
Prep Date:	10/5/2012		Analysis Date: 10/8/2012			SeqNo: 176475		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	10.6	1.00	10.00	0	106	60	140			
Toluene	9.55	1.00	10.00	0	95.5	60	140			
Chlorobenzene	9.91	1.00	10.00	0	99.1	60	140			
1,1-Dichloroethene	11.6	1.00	10.00	0	116	60	140			
Trichloroethene (TCE)	9.40	1.00	10.00	0	94.0	60	140			
Surr: 1,2-Dichloroethane-d4	45.7		50.00		91.3	70	130			
Surr: 4-Bromofluorobenzene	39.6		50.00		79.3	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup**Project:** SWMU NO.1

Sample ID	lcs-4139		SampType: LCS		TestCode: Method 8260B/5035LOW: VOLATILES					
Client ID:	LCSS		Batch ID: 4139		RunNo: 6123					
Prep Date:	10/5/2012		Analysis Date: 10/8/2012		SeqNo: 176475		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	49.3		50.00		98.5	70	130			
Surr: Toluene-d8	47.1		50.00		94.2	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	5ml-rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID: R6048			RunNo: 6048					
Prep Date:		Analysis Date: 10/5/2012			SeqNo: 174216		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	5ml-rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID: R6048			RunNo: 6048					
Prep Date:		Analysis Date: 10/5/2012			SeqNo: 174216		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.7		10.00		87.4	70	130			
Surr: 4-Bromofluorobenzene	8.1		10.00		80.6	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	7.9		10.00		79.4	70	130			

Sample ID	100ng lcs	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID: R6048			RunNo: 6048					
Prep Date:		Analysis Date: 10/5/2012			SeqNo: 174218		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	95.4	70	130			
Toluene	18	1.0	20.00	0	90.7	80	120			
Chlorobenzene	17	1.0	20.00	0	85.9	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	97.8	73.7	122			
Trichloroethene (TCE)	17	1.0	20.00	0	84.3	70	130			
Surr: 1,2-Dichloroethane-d4	8.3		10.00		82.6	70	130			
Surr: 4-Bromofluorobenzene	7.8		10.00		78.4	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	100ng lcs		SampType: LCS		TestCode: EPA Method 8260B: VOLATILES					
Client ID:	LCSW		Batch ID: R6048		RunNo: 6048					
Prep Date:			Analysis Date: 10/5/2012		SeqNo: 174218		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	9.9		10.00		99.0	70	130			
Surr: Toluene-d8	7.8		10.00		78.4	70	130			

Sample ID	1210179-001a ms		SampType: MS		TestCode: EPA Method 8260B: VOLATILES					
Client ID:	BatchQC		Batch ID: R6048		RunNo: 6048					
Prep Date:			Analysis Date: 10/5/2012		SeqNo: 174222		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	100	66.8	128			
Toluene	20	1.0	20.00	0	99.4	70	130			
Chlorobenzene	18	1.0	20.00	0	90.5	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	103	70	130			
Trichloroethene (TCE)	17	1.0	20.00	0	85.5	70	130			
Surr: 1,2-Dichloroethane-d4	8.6		10.00		85.7	70	130			
Surr: 4-Bromofluorobenzene	8.5		10.00		84.9	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	8.1		10.00		81.2	70	130			

Sample ID	1210179-001a msd			SampType: MSD	TestCode: EPA Method 8260B: VOLATILES					
Client ID:	BatchQC			Batch ID: R6048	RunNo: 6048					
Prep Date:	Analysis Date: 10/5/2012			SeqNo: 174223	Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.8	66.8	128	3.35	16.7	
Toluene	19	1.0	20.00	0	96.1	70	130	3.34	18.7	
Chlorobenzene	18	1.0	20.00	0	90.9	70	130	0.385	19.5	
1,1-Dichloroethene	20	1.0	20.00	0	97.6	70	130	5.89	16.7	
Trichloroethene (TCE)	16	1.0	20.00	0	79.2	70	130	7.68	17.5	
Surr: 1,2-Dichloroethane-d4	8.3		10.00		83.3	70	130	0	0	
Surr: 4-Bromofluorobenzene	8.3		10.00		83.4	70	130	0	0	
Surr: Dibromofluoromethane	9.8		10.00		97.9	70	130	0	0	
Surr: Toluene-d8	8.1		10.00		81.2	70	130	0	0	

Sample ID	b3	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID: R6048			RunNo: 6048					
Prep Date:		Analysis Date: 10/5/2012			SeqNo: 174241		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	b3	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID:	R6048	RunNo:	6048					
Prep Date:		Analysis Date:	10/5/2012	SeqNo:	174241	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID b3	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch ID: R6048			RunNo: 6048						
Prep Date:	Analysis Date: 10/5/2012			SeqNo: 174241		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.2		10.00		82.4	70	130			
Surr: 4-Bromofluorobenzene	8.3		10.00		82.8	70	130			
Surr: Dibromofluoromethane	9.7		10.00		97.0	70	130			
Surr: Toluene-d8	8.1		10.00		81.1	70	130			

Sample ID 100ng lcs2	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES						
Client ID: LCSW	Batch ID: R6048			RunNo: 6048						
Prep Date:	Analysis Date: 10/5/2012			SeqNo: 174243		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	19	1.0	20.00	0	93.1	80	120			
Chlorobenzene	17	1.0	20.00	0	87.4	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	104	73.7	122			
Trichloroethene (TCE)	17	1.0	20.00	0	84.8	70	130			
Surr: 1,2-Dichloroethane-d4	8.5		10.00		84.6	70	130			
Surr: 4-Bromofluorobenzene	8.3		10.00		83.3	70	130			
Surr: Dibromofluoromethane	10		10.00		100	70	130			
Surr: Toluene-d8	7.9		10.00		78.6	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210340-003a ms		SampType: MS			TestCode: EPA Method 8260B: VOLATILES				
Client ID:	BatchQC		Batch ID: R6048			RunNo: 6048				
Prep Date:			Analysis Date: 10/6/2012			SeqNo: 174249		Units: µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlorobenzene	380	20	400.0	0	95.3	70	130			
1,1-Dichloroethene	410	20	400.0	0	103	70	130			
Trichloroethene (TCE)	350	20	400.0	0	88.7	70	130			
Surr: 1,2-Dichloroethane-d4	170		200.0		83.2	70	130			
Surr: 4-Bromofluorobenzene	160		200.0		77.8	70	130			
Surr: Dibromofluoromethane	200		200.0		101	70	130			
Surr: Toluene-d8	160		200.0		79.7	70	130			

Sample ID	1210340-003a msd		SampType: MSD			TestCode: EPA Method 8260B: VOLATILES				
Client ID:	BatchQC		Batch ID: R6048			RunNo: 6048				
Prep Date:			Analysis Date: 10/6/2012			SeqNo: 174250		Units: µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlorobenzene	360	20	400.0	0	90.7	70	130	5.00	19.5	
1,1-Dichloroethene	380	20	400.0	0	95.9	70	130	7.00	16.7	
Trichloroethene (TCE)	330	20	400.0	0	82.9	70	130	6.82	17.5	
Surr: 1,2-Dichloroethane-d4	170		200.0		84.4	70	130	0	0	
Surr: 4-Bromofluorobenzene	160		200.0		79.7	70	130	0	0	
Surr: Dibromofluoromethane	200		200.0		99.6	70	130	0	0	
Surr: Toluene-d8	160		200.0		80.6	70	130	0	0	

Sample ID	5ml rb		SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES				
Client ID:	PBW		Batch ID: R6255			RunNo: 6255				
Prep Date:			Analysis Date: 10/15/2012			SeqNo: 180303		Units: µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	5ml rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID: R6255			RunNo: 6255					
Prep Date:		Analysis Date: 10/15/2012			SeqNo: 180303	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	5ml rb	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID:	R6255	RunNo:	6255					
Prep Date:		Analysis Date:	10/15/2012	SeqNo:	180303	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.2		10.00		92.5	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.2		10.00		92.1	70	130			
Surr: Toluene-d8	9.9		10.00		99.3	70	130			

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID:	R6255	RunNo:	6255					
Prep Date:		Analysis Date:	10/15/2012	SeqNo:	180305	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130			
Toluene	21	1.0	20.00	0	105	80	120			
Chlorobenzene	21	1.0	20.00	0	107	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	92.3	73.7	122			
Trichloroethene (TCE)	19	1.0	20.00	0	92.6	70	130			
Surr: 1,2-Dichloroethane-d4	9.3		10.00		93.2	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.7	70	130			
Surr: Dibromofluoromethane	9.0		10.00		90.3	70	130			
Surr: Toluene-d8	9.4		10.00		93.9	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4140	SampType:	MBLK	TestCode:	EPA Method 8270C: Semivolatiles					
Client ID:	PBS	Batch ID:	4140	RunNo:	6106					
Prep Date:	10/5/2012	Analysis Date:	10/9/2012	SeqNo:	176018	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Azobenzene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Benzoic acid	ND	0.50								
Benzyl alcohol	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	ND	0.50								
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	ND	0.50								
Di-n-octyl phthalate	ND	0.25								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3'-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.40								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4140		SampType:	MBLK		TestCode:	EPA Method 8270C: Semivolatiles			
Client ID:	PBS		Batch ID:	4140		RunNo:	6106			
Prep Date:	10/5/2012		Analysis Date:	10/9/2012		SeqNo:	176018		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoranthene	ND	0.20								
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
1-Methylnaphthalene	ND	0.20								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2,4,6-Tribromophenol	2.3		3.330		68.7	21.3	145			
Surr: 2-Fluorobiphenyl	0.94		1.670		56.2	20	131			
Surr: 2-Fluorophenol	2.0		3.330		59.6	11.9	130			
Surr: 4-Terphenyl-d14	0.96		1.670		57.5	25.1	149			
Surr: Nitrobenzene-d5	1.0		1.670		59.9	25.6	137			
Surr: Phenol-d5	2.1		3.330		62.9	20.3	132			

Sample ID	lcs-4140		SampType:	LCS		TestCode:	EPA Method 8270C: Semivolatiles			
Client ID:	LCSS		Batch ID:	4140		RunNo:	6106			
Prep Date:	10/5/2012		Analysis Date:	10/9/2012		SeqNo:	176019		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	Ics-4140	SampType: LCS			TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	LCSS	Batch ID: 4140			RunNo: 6106					
Prep Date:	10/5/2012	Analysis Date: 10/9/2012			SeqNo: 176019		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.99	0.20	1.670	0	59.5	49.7	98.1			
4-Chloro-3-methylphenol	2.2	0.50	3.330	0	65.1	43.8	89.1			
2-Chlorophenol	1.9	0.20	3.330	0	57.0	41.1	96.9			
1,4-Dichlorobenzene	0.91	0.20	1.670	0	54.6	41	97.4			
2,4-Dinitrotoluene	1.2	0.50	1.670	0	70.7	44.4	104			
N-Nitrosodi-n-propylamine	1.1	0.20	1.670	0	65.0	39.1	86.9			
4-Nitrophenol	2.1	0.25	3.330	0	62.6	44.2	107			
Pentachlorophenol	1.5	0.40	3.330	0	44.9	36.2	80			
Phenol	2.0	0.20	3.330	0	60.0	42.7	92.7			
Pyrene	0.90	0.20	1.670	0	53.9	34.7	98.8			
1,2,4-Trichlorobenzene	0.88	0.20	1.670	0	52.9	37.8	98.3			
Surr: 2,4,6-Tribromophenol	2.5		3.330		74.6	21.3	145			
Surr: 2-Fluorobiphenyl	1.1		1.670		66.2	20	131			
Surr: 2-Fluorophenol	1.9		3.330		55.8	11.9	130			
Surr: 4-Terphenyl-d14	1.1		1.670		64.8	25.1	149			
Surr: Nitrobenzene-d5	1.0		1.670		60.3	25.6	137			
Surr: Phenol-d5	2.1		3.330		63.6	20.3	132			

Sample ID	1210279-012CMS		SampType: MS		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	BatchQC		Batch ID: 4140		RunNo: 6106					
Prep Date:	10/5/2012		Analysis Date: 10/9/2012		SeqNo: 176040		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.3	0.20	1.684	0	76.6	38.6	100			
4-Chloro-3-methylphenol	2.7	0.50	3.358	0	79.2	35.8	108			
2-Chlorophenol	2.4	0.20	3.358	0	72.3	48.2	96.1			
1,4-Dichlorobenzene	1.1	0.20	1.684	0	66.4	42.5	97.6			
2,4-Dinitrotoluene	1.6	0.50	1.684	0	92.4	51.2	108			
N-Nitrosodi-n-propylamine	1.1	0.20	1.684	0	67.5	31.6	114			
4-Nitrophenol	2.8	0.25	3.358	0	82.3	22.7	144			
Pentachlorophenol	2.1	0.40	3.358	0	61.1	24	109			
Phenol	2.6	0.20	3.358	0	76.4	33.1	108			
Pyrene	1.2	0.20	1.684	0	69.2	42.7	98.9			
1,2,4-Trichlorobenzene	1.1	0.20	1.684	0	64.3	27.1	118			
Surr: 2,4,6-Tribromophenol	2.9		3.358		86.1	21.3	145			
Surr: 2-Fluorobiphenyl	1.2		1.684		73.8	20	131			
Surr: 2-Fluorophenol	2.5		3.358		75.3	11.9	130			
Surr: 4-Terphenyl-d14	1.2		1.684		70.1	25.1	149			
Surr: Nitrobenzene-d5	1.2		1.684		73.1	25.6	137			
Surr: Phenol-d5	2.7		3.358		79.5	20.3	132			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210279-012CMSD	SampType:	MSD		TestCode:	EPA Method 8270C: Semivolatiles				
Client ID:	BatchQC	Batch ID:	4140		RunNo:	6106				
Prep Date:	10/5/2012	Analysis Date:	10/9/2012		SeqNo:	176041		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.2	0.20	1.667	0	74.1	38.6	100	4.39	20	
4-Chloro-3-methylphenol	2.7	0.50	3.324	0	82.1	35.8	108	2.56	20	
2-Chlorophenol	2.3	0.20	3.324	0	68.8	48.2	96.1	5.93	20	
1,4-Dichlorobenzene	1.0	0.20	1.667	0	62.1	42.5	97.6	7.84	20	
2,4-Dinitrotoluene	1.6	0.50	1.667	0	95.5	51.2	108	2.29	20	
N-Nitrosodi-n-propylamine	1.1	0.20	1.667	0	66.7	31.6	114	2.25	20	
4-Nitrophenol	2.9	0.25	3.324	0	88.4	22.7	144	6.14	20	
Pentachlorophenol	2.1	0.40	3.324	0	64.0	24	109	3.56	20	
Phenol	2.3	0.20	3.324	0	69.6	33.1	108	10.3	20	
Pyrene	1.2	0.20	1.667	0	71.4	42.7	98.9	2.04	20	
1,2,4-Trichlorobenzene	1.1	0.20	1.667	0	66.7	27.1	118	2.65	20	
Surr: 2,4,6-Tribromophenol	3.0		3.324		89.8	21.3	145	0	0	
Surr: 2-Fluorobiphenyl	1.2		1.667		71.8	20	131	0	0	
Surr: 2-Fluorophenol	2.4		3.324		72.3	11.9	130	0	0	
Surr: 4-Terphenyl-d14	1.2		1.667		72.5	25.1	149	0	0	
Surr: Nitrobenzene-d5	1.3		1.667		76.8	25.6	137	0	0	
Surr: Phenol-d5	2.6		3.324		77.9	20.3	132	0	0	

Sample ID	mb-4168		SampType: MBLK		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	PBS		Batch ID: 4168		RunNo: 6106					
Prep Date:	10/8/2012		Analysis Date: 10/10/2012		SeqNo: 176042		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Azobenzene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Benzoic acid	ND	0.50								
Benzyl alcohol	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	ND	0.50								
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4168		SampType: MBLK		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	PBS		Batch ID: 4168		RunNo: 6106					
Prep Date:	10/8/2012		Analysis Date: 10/10/2012		SeqNo: 176042		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	ND	0.50								
Di-n-octyl phthalate	ND	0.25								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3'-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.40								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								
Fluoranthene	ND	0.20								
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
1-Methylnaphthalene	ND	0.20								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4168		SampType: MBLK		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	PBS		Batch ID: 4168		RunNo: 6106					
Prep Date:	10/8/2012		Analysis Date: 10/10/2012		SeqNo: 176042		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2,4,6-Tribromophenol	2.8		3.330		84.5	21.3	145			
Surr: 2-Fluorobiphenyl	1.5		1.670		88.5	20	131			
Surr: 2-Fluorophenol	2.9		3.330		85.8	11.9	130			
Surr: 4-Terphenyl-d14	1.3		1.670		77.1	25.1	149			
Surr: Nitrobenzene-d5	1.5		1.670		90.5	25.6	137			
Surr: Phenol-d5	3.1		3.330		94.0	20.3	132			

Sample ID	lcs-4168		SampType: LCS		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	LCSS		Batch ID: 4168		RunNo: 6106					
Prep Date:	10/8/2012		Analysis Date: 10/10/2012		SeqNo: 176043		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.3	0.20	1.670	0	77.2	49.7	98.1			
4-Chloro-3-methylphenol	2.9	0.50	3.330	0	87.8	43.8	89.1			
2-Chlorophenol	2.8	0.20	3.330	0	83.6	41.1	96.9			
1,4-Dichlorobenzene	1.3	0.20	1.670	0	75.1	41	97.4			
2,4-Dinitrotoluene	1.7	0.50	1.670	0	99.6	44.4	104			
N-Nitrosodi-n-propylamine	1.5	0.20	1.670	0	88.3	39.1	86.9			S
4-Nitrophenol	3.0	0.25	3.330	0	88.8	44.2	107			
Pentachlorophenol	2.1	0.40	3.330	0	64.1	36.2	80			
Phenol	2.7	0.20	3.330	0	80.3	42.7	92.7			
Pyrene	1.2	0.20	1.670	0	74.5	34.7	98.8			
1,2,4-Trichlorobenzene	1.3	0.20	1.670	0	77.2	37.8	98.3			
Surr: 2,4,6-Tribromophenol	2.9		3.330		87.4	21.3	145			
Surr: 2-Fluorobiphenyl	1.4		1.670		85.7	20	131			
Surr: 2-Fluorophenol	2.6		3.330		77.1	11.9	130			
Surr: 4-Terphenyl-d14	1.3		1.670		74.9	25.1	149			
Surr: Nitrobenzene-d5	1.4		1.670		82.0	25.6	137			
Surr: Phenol-d5	2.8		3.330		83.8	20.3	132			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210372-001BMS	SampType: MS			TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	BatchQC	Batch ID: 4168			RunNo: 6106					
Prep Date:	10/8/2012	Analysis Date: 10/10/2012			SeqNo: 177069		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	2.1	1.0	1.673	0	127	38.6	100			S
4-Chloro-3-methylphenol	2.5	2.5	3.336	0	75.3	35.8	108			
2-Chlorophenol	2.2	1.0	3.336	0	65.8	48.2	96.1			
1,4-Dichlorobenzene	ND	1.0	1.673	0	57.2	42.5	97.6			
2,4-Dinitrotoluene	ND	2.5	1.673	0	65.9	51.2	108			
N-Nitrosodi-n-propylamine	ND	1.0	1.673	0	0	31.6	114			S
4-Nitrophenol	ND	1.3	3.336	0	0	22.7	144			S
Pentachlorophenol	ND	2.0	3.336	0	53.4	24	109			
Phenol	2.0	1.0	3.336	0	61.3	33.1	108			
Pyrene	1.7	1.0	1.673	1.458	12.8	42.7	98.9			S
1,2,4-Trichlorobenzene	1.1	1.0	1.673	0	68.7	27.1	118			
Surr: 2,4,6-Tribromophenol	1.8		3.336		55.0	21.3	145			
Surr: 2-Fluorobiphenyl	1.2		1.673		69.0	20	131			
Surr: 2-Fluorophenol	2.1		3.336		62.7	11.9	130			
Surr: 4-Terphenyl-d14	1.2		1.673		73.7	25.1	149			
Surr: Nitrobenzene-d5	0		1.673		0	25.6	137			S
Surr: Phenol-d5	2.2		3.336		67.4	20.3	132			

Sample ID	1210372-001BMSD		SampType: MSD		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	BatchQC		Batch ID: 4168		RunNo: 6106					
Prep Date:	10/8/2012		Analysis Date: 10/10/2012		SeqNo: 177070		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	2.2	0.99	1.661	0	132	38.6	100	3.07	20	S
4-Chloro-3-methylphenol	2.8	2.5	3.312	0	85.5	35.8	108	12.0	20	
2-Chlorophenol	2.5	0.99	3.312	0	76.2	48.2	96.1	14.0	20	
1,4-Dichlorobenzene	1.1	0.99	1.661	0	65.5	42.5	97.6	12.8	20	
2,4-Dinitrotoluene	ND	2.5	1.661	0	63.3	51.2	108	0	20	
N-Nitrosodi-n-propylamine	ND	0.99	1.661	0	0	31.6	114	0	20	S
4-Nitrophenol	3.5	1.2	3.312	0	107	22.7	144	200	20	R
Pentachlorophenol	ND	2.0	3.312	0	59.1	24	109	0	20	
Phenol	2.4	0.99	3.312	0	73.9	33.1	108	18.0	20	
Pyrene	2.0	0.99	1.661	1.458	31.7	42.7	98.9	17.1	20	S
1,2,4-Trichlorobenzene	1.2	0.99	1.661	0	75.0	27.1	118	8.06	20	
Surr: 2,4,6-Tribromophenol	2.3		3.312		70.5	21.3	145	0	0	
Surr: 2-Fluorobiphenyl	1.3		1.661		79.0	20	131	0	0	
Surr: 2-Fluorophenol	2.5		3.312		74.6	11.9	130	0	0	
Surr: 4-Terphenyl-d14	1.3		1.661		78.0	25.1	149	0	0	
Surr: Nitrobenzene-d5	1.3		1.661		80.2	25.6	137	0	0	
Surr: Phenol-d5	2.7		3.312		82.1	20.3	132	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4133		SampType: MBLK		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	PBW		Batch ID: 4133		RunNo: 6007					
Prep Date:	10/5/2012		Analysis Date: 10/5/2012		SeqNo: 173071		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	10								
Acenaphthylene	ND	10								
Aniline	ND	10								
Anthracene	ND	10								
Azobenzene	ND	10								
Benz(a)anthracene	ND	10								
Benzo(a)pyrene	ND	10								
Benzo(b)fluoranthene	ND	10								
Benzo(g,h,i)perylene	ND	10								
Benzo(k)fluoranthene	ND	10								
Benzoic acid	ND	20								
Benzyl alcohol	ND	10								
Bis(2-chloroethoxy)methane	ND	10								
Bis(2-chloroethyl)ether	ND	10								
Bis(2-chloroisopropyl)ether	ND	10								
Bis(2-ethylhexyl)phthalate	ND	10								
4-Bromophenyl phenyl ether	ND	10								
Butyl benzyl phthalate	ND	10								
Carbazole	ND	10								
4-Chloro-3-methylphenol	ND	10								
4-Chloroaniline	ND	10								
2-Chloronaphthalene	ND	10								
2-Chlorophenol	ND	10								
4-Chlorophenyl phenyl ether	ND	10								
Chrysene	ND	10								
Di-n-butyl phthalate	ND	10								
Di-n-octyl phthalate	ND	10								
Dibenz(a,h)anthracene	ND	10								
Dibenzofuran	ND	10								
1,2-Dichlorobenzene	ND	10								
1,3-Dichlorobenzene	ND	10								
1,4-Dichlorobenzene	ND	10								
3,3'-Dichlorobenzidine	ND	10								
Diethyl phthalate	ND	10								
Dimethyl phthalate	ND	10								
2,4-Dichlorophenol	ND	20								
2,4-Dimethylphenol	ND	10								
4,6-Dinitro-2-methylphenol	ND	20								
2,4-Dinitrophenol	ND	20								
2,4-Dinitrotoluene	ND	10								
2,6-Dinitrotoluene	ND	10								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	mb-4133		SampType: MBLK			TestCode: EPA Method 8270C: Semivolatiles				
Client ID:	PBW		Batch ID: 4133			RunNo: 6007				
Prep Date:	10/5/2012		Analysis Date: 10/5/2012			SeqNo: 173071		Units: µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoranthene	ND	10								
Fluorene	ND	10								
Hexachlorobenzene	ND	10								
Hexachlorobutadiene	ND	10								
Hexachlorocyclopentadiene	ND	10								
Hexachloroethane	ND	10								
Indeno(1,2,3-cd)pyrene	ND	10								
Isophorone	ND	10								
1-Methylnaphthalene	ND	10								
2-Methylnaphthalene	ND	10								
2-Methylphenol	ND	10								
3+4-Methylphenol	ND	10								
N-Nitrosodi-n-propylamine	ND	10								
N-Nitrosodimethylamine	ND	10								
N-Nitrosodiphenylamine	ND	10								
Naphthalene	ND	10								
2-Nitroaniline	ND	10								
3-Nitroaniline	ND	10								
4-Nitroaniline	ND	10								
Nitrobenzene	ND	10								
2-Nitrophenol	ND	10								
4-Nitrophenol	ND	10								
Pentachlorophenol	ND	20								
Phenanthrene	ND	10								
Phenol	ND	10								
Pyrene	ND	10								
Pyridine	ND	10								
1,2,4-Trichlorobenzene	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
Surr: 2,4,6-Tribromophenol	160		200.0		80.9	44.2	126			
Surr: 2-Fluorobiphenyl	77		100.0		77.2	37	114			
Surr: 2-Fluorophenol	130		200.0		66.0	23.4	98			
Surr: 4-Terphenyl-d14	72		100.0		71.9	41.3	116			
Surr: Nitrobenzene-d5	76		100.0		76.3	39.5	118			
Surr: Phenol-d5	120		200.0		58.2	20.9	95.9			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	Ics-4133		SampType: LCS		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	LCSW		Batch ID: 4133		RunNo: 6007					
Prep Date:	10/5/2012		Analysis Date: 10/5/2012		SeqNo: 173072		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	61	10	100.0	0	61.0	38.2	99.4			
4-Chloro-3-methylphenol	140	10	200.0	0	71.6	35.5	108			
2-Chlorophenol	140	10	200.0	0	70.5	29.8	106			
1,4-Dichlorobenzene	65	10	100.0	0	65.4	32.6	91.5			
2,4-Dinitrotoluene	67	10	100.0	0	67.0	44.7	112			
N-Nitrosodi-n-propylamine	73	10	100.0	0	72.6	38.5	105			
4-Nitrophenol	92	10	200.0	0	45.9	11.6	73.1			
Pentachlorophenol	95	20	200.0	0	47.6	20.2	93			
Phenol	120	10	200.0	0	60.3	23	66.1			
Pyrene	61	10	100.0	0	61.4	40.1	101			
1,2,4-Trichlorobenzene	62	10	100.0	0	62.0	37.7	99.1			
Surr: 2,4,6-Tribromophenol	160		200.0		78.1	44.2	126			
Surr: 2-Fluorobiphenyl	72		100.0		72.4	37	114			
Surr: 2-Fluorophenol	140		200.0		71.2	23.4	98			
Surr: 4-Terphenyl-d14	64		100.0		64.3	41.3	116			
Surr: Nitrobenzene-d5	72		100.0		72.1	39.5	118			
Surr: Phenol-d5	130		200.0		66.7	20.9	95.9			

Sample ID	Icsd-4133		SampType: LCSD		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	LCSS02		Batch ID: 4133		RunNo: 6007					
Prep Date:	10/5/2012		Analysis Date: 10/5/2012		SeqNo: 173073		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	64	10	100.0	0	64.1	38.2	99.4	4.96	20	
4-Chloro-3-methylphenol	170	10	200.0	0	83.6	35.5	108	15.4	20	
2-Chlorophenol	130	10	200.0	0	67.2	29.8	106	4.72	20	
1,4-Dichlorobenzene	65	10	100.0	0	64.5	32.6	91.5	1.32	20	
2,4-Dinitrotoluene	78	10	100.0	0	78.4	44.7	112	15.7	20	
N-Nitrosodi-n-propylamine	69	10	100.0	0	68.5	38.5	105	5.84	20	
4-Nitrophenol	110	10	200.0	0	53.4	11.6	73.1	15.1	20	
Pentachlorophenol	100	20	200.0	0	50.6	20.2	93	6.13	20	
Phenol	120	10	200.0	0	59.0	23	66.1	2.26	20	
Pyrene	67	10	100.0	0	66.7	40.1	101	8.21	20	
1,2,4-Trichlorobenzene	61	10	100.0	0	61.0	37.7	99.1	1.56	20	
Surr: 2,4,6-Tribromophenol	150		200.0		76.3	44.2	126	0	0	
Surr: 2-Fluorobiphenyl	69		100.0		68.6	37	114	0	0	
Surr: 2-Fluorophenol	130		200.0		66.7	23.4	98	0	0	
Surr: 4-Terphenyl-d14	67		100.0		66.9	41.3	116	0	0	
Surr: Nitrobenzene-d5	72		100.0		72.1	39.5	118	0	0	
Surr: Phenol-d5	120		200.0		58.6	20.9	95.9	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4150		SampType: MBLK		TestCode: EPA Method 7471: Mercury					
Client ID:	PBS		Batch ID: 4150		RunNo: 6082					
Prep Date:	10/8/2012		Analysis Date: 10/9/2012		SeqNo: 175512		Units: mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercurv	ND	0.033								

Sample ID	LCS-4150		SampType: LCS		TestCode: EPA Method 7471: Mercury					
Client ID:	LCSS		Batch ID: 4150		RunNo: 6082					
Prep Date:	10/8/2012		Analysis Date: 10/9/2012		SeqNo: 175513		Units: mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.19	0.033	0.1667	0	117	80	120			

Sample ID	1210332-015CMS		SampType: MS		TestCode: EPA Method 7471: Mercury					
Client ID:	SWMU 1-5 (24-25')		Batch ID: 4150		RunNo: 6082					
Prep Date:	10/8/2012		Analysis Date: 10/9/2012		SeqNo: 175534		Units: mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.18	0.033	0.1635	0	108	75	125			

Sample ID	1210332-015CMSD		SampType: MSD		TestCode: EPA Method 7471: Mercury					
Client ID:	SWMU 1-5 (24-25')		Batch ID: 4150		RunNo: 6082					
Prep Date:	10/8/2012		Analysis Date: 10/9/2012		SeqNo: 175535		Units: mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.18	0.033	0.1662	0	108	75	125	1.95	20	

Qualifiers:

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P Sample pH greater than 2

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ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4190		SampType:	MBLK		TestCode:	EPA Method 6010B: Soil Metals			
Client ID:	PBS		Batch ID:	4190		RunNo:	6121			
Prep Date:	10/9/2012		Analysis Date:	10/10/2012		SeqNo:	176356		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	2.5								
Arsenic	ND	2.5								
Beryllium	ND	0.15								
Cadmium	ND	0.10								
Chromium	ND	0.30								
Iron	ND	1.0								
Lead	ND	0.25								
Manganese	ND	0.10								
Nickel	ND	0.50								
Selenium	ND	2.5								
Silver	ND	0.25								
Vanadium	ND	2.5								
Zinc	ND	2.5								

Sample ID	LCS-4190		SampType:	LCS		TestCode:	EPA Method 6010B: Soil Metals			
Client ID:	LCSS		Batch ID:	4190		RunNo:	6121			
Prep Date:	10/9/2012		Analysis Date:	10/10/2012		SeqNo:	176357		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	24	2.5	25.00	0	96.0	80	120			
Arsenic	25	2.5	25.00	0	99.3	80	120			
Beryllium	25	0.15	25.00	0	102	80	120			
Cadmium	25	0.10	25.00	0.04000	100	80	120			
Chromium	25	0.30	25.00	0	99.1	80	120			
Iron	25	1.0	25.00	0	99.9	80	120			
Lead	25	0.25	25.00	0	99.4	80	120			
Manganese	25	0.10	25.00	0.03400	98.1	80	120			
Nickel	24	0.50	25.00	0	95.7	80	120			
Selenium	23	2.5	25.00	0	91.4	80	120			
Silver	5.1	0.25	5.000	0	103	80	120			
Vanadium	25	2.5	25.00	0	101	80	120			
Zinc	25	2.5	25.00	1.304	95.8	80	120			

Sample ID	MB-4190		SampType:	MBLK		TestCode:	EPA Method 6010B: Soil Metals			
Client ID:	PBS		Batch ID:	4190		RunNo:	6163			
Prep Date:	10/9/2012		Analysis Date:	10/11/2012		SeqNo:	177646		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.10								
Cobalt	ND	0.30								

Qualifiers:

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J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	LCS-4190		SampType: LCS		TestCode: EPA Method 6010B: Soil Metals					
Client ID:	LCSS		Batch ID: 4190		RunNo: 6163					
Prep Date:	10/9/2012		Analysis Date: 10/11/2012		SeqNo: 177647		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	26	0.10	25.00	0.06900	103	80	120			
Cobalt	26	0.30	25.00	0	103	80	120			

Sample ID	1210332-009CMS	SampType:	MS	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	SWMU 1-5 (27-28')	Batch ID:	4190	RunNo:	6163					
Prep Date:	10/9/2012	Analysis Date:	10/11/2012	SeqNo:	177670	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	25	0.75	24.45	1.059	97.2	75	125			
Cadmium	23	0.50	24.45	0	92.3	75	125			
Chromium	37	1.5	24.45	14.78	89.3	75	125			
Cobalt	29	1.5	24.45	7.765	86.7	75	125			
Lead	21	1.2	24.45	0	84.0	75	125			
Nickel	33	2.5	24.45	12.30	86.5	75	125			
Selenium	ND	12	24.45	0	0	75	125			S
Silver	4.5	1.2	4.889	0	92.6	75	125			
Vanadium	47	12	24.45	21.78	101	75	125			
Zinc	55	12	24.45	31.31	95.7	75	125			

Sample ID	1210332-009CMSD	SampType:	MSD		TestCode: EPA Method 6010B: Soil Metals					
Client ID:	SWMU 1-5 (27-28')	Batch ID:	4190		RunNo: 6163					
Prep Date:	10/9/2012	Analysis Date:	10/11/2012		SeqNo: 177671		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	23	0.75	24.24	1.059	89.2	75	125	9.01	20	
Cadmium	21	0.50	24.24	0	85.2	75	125	8.90	20	
Chromium	35	1.5	24.24	14.78	81.6	75	125	5.77	20	
Cobalt	26	1.5	24.24	7.765	77.2	75	125	8.96	20	
Lead	20	1.2	24.24	0	82.6	75	125	2.50	20	
Nickel	31	2.5	24.24	12.30	76.9	75	125	7.78	20	
Selenium	ND	12	24.24	0	0	75	125	0	20	S
Silver	4.3	1.2	4.848	0	88.3	75	125	5.66	20	
Vanadium	44	12	24.24	21.78	91.5	75	125	5.71	20	
Zinc	50	12	24.24	31.31	76.7	75	125	9.19	20	

Sample ID	1210332-009CMS		SampType: MS		TestCode: EPA Method 6010B: Soil Metals					
Client ID:	SWMU 1-5 (27-28')		Batch ID: 4190		RunNo: 6192					
Prep Date:	10/9/2012		Analysis Date: 10/11/2012		SeqNo: 178373		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	12	24.45	0	0	75	125			S
Arsenic	23	12	24.45	0	94.4	75	125			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210332

14-Nov-12

Client: Western Refining Southwest, Gallup**Project:** SWMU NO.1

Sample ID	1210332-009CMSD	SampType:	MSD	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	SWMU 1-5 (27-28')	Batch ID:	4190	RunNo:	6192					
Prep Date:	10/9/2012	Analysis Date:	10/11/2012	SeqNo:	178374	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	12	24.24	0	0	75	125	0	20	S
Arsenic	24	12	24.24	0	100	75	125	5.14	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Western Refining Gallup Work Order Number: 1210332
Received by/date: [Signature] 10/05/12
Logged By: Lindsay Mangin 10/5/2012 6:45:00 AM [Signature]
Completed By: Lindsay Mangin 10/5/2012 7:28:35 AM [Signature]
Reviewed By: JO 10/05/12

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? FedEx

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☒ No ☒ NA ☐
-COSE-ADDED 1mL HNO₃ FOR ACCEPTABLE PH- 10/05/12
11. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: 3
(<2 or >12 unless noted)
Adjusted? Y
Checked by: [Signature]

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good	Yes			

Chain-of-Custody Record				Turn-Around Time:		
Client: <u>WESTERN REFINING SW, INC.</u>				☒ Standard ☐ Rush		
Gallup Refinery						
Mailing Address: <u>ROUTE 3 BOX 7</u>				Project Name:		
Gallup, NM 87301						
Phone #: <u>505-722-0217</u>				Project #:		
email or Fax#: <u>SCOTT CROUCH-RPS</u>						
QA/QC Package:				Project Manager:		
☒ Standard ☐ Level 4 (Full Validation)						
Accreditation				Sampler: <u>TRACY PAYNE RPS</u>		
☐ NELAP ☐ Other						
☒ EDD (Type) <u>EXCEL</u>				On Ice: ☒ Yes ☐ No		
				Sample Temperature: <u>2.8</u>		
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
10/3/12	1315	SOIL	SNMU1-4 (10-12')	2 VIALS	SOBI	-001
			DUP	2 VIALS	MEOH	
				1 JAR	-	
	1345	SOIL	SNMU1-4 (17-18')	2 VIALS	SOBI	-002
				2 VIALS	MEOH	
				3 JARS	-	
	1400	SOIL	SNMU1-4 (23-24')	2 VIALS	SOBI	-003
				2 VIALS	MEOH	
				3 JARS	-	
10/3/12		WATER	TRIP BLANK	3 VOAS	HCL	-004
Date:	Time:	Relinquished by:	Received by:	Date:	Time	
10/4/12	0717	<u>[Signature]</u>	<u>[Signature]</u>	10/05/12	0645	
Date:	Time:	Relinquished by:	Received by:	Date:	Time	

Analysis Request

QA/QC Package:				Project Manager:	
☒ Standard ☐ NELAP ☐ Other				Scott Crouch - RPS Sample: TRACY PAYNE RPS On Ice: ☒ Yes ☐ No Sample Temperature: 2.8	
Accreditation				HEAL No.	
☒ EDD (Type) EXCEL				1210332	
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type
10/3/12	1315	SOIL	SNMU1-4 (10-12)	2 VIALS	SOBI
			DUP	2 VIALS	MEOH
				1 JAR	-
	1345	SOIL	SNMU1-4 (17-18)	2 VIALS	SOBI
				2 VIALS	MEOH
				3 JARS	-
	1400	SOIL	SNMU1-4 (23-24)	2 VIALS	SOBI
				2 VIALS	MEOH
				3 JARS	-
10/3/12		WATER	TRIP BLANK	3 VOAS	HCL

Received by:	Date	Time
--------------	------	------

Received by:

Date:	Time:	Relinquished by:

Received by:

Date:	Time:	Relinquished 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.

Chain-of-Custody Record				Turn-Around Time:		
Client: <u>WESTERN REFINING SWINE</u> <u>GALLUP REFINERY</u> Mailing Address: <u>ROUTE 3 BOX 7</u> <u>GALLUP NM 87301</u> Phone #: <u>505-727-0217</u> email or Fax#: <u>SCOTT CROUCH-RPS</u>				☒ Standard ☐ Rush Project Name: <u>SWMU No. 1</u> Project #: _____ Project Manager: _____		
QA/QC Package: ☒ Level 4 (Full Validation) Accreditation: ☐ NELAP ☐ Other _____ ☒ EDD (Type) <u>EXCEL</u>				Sampler: <u>SCOTT CROUCH-RPS</u> On Ice: ☒ Yes ☐ No Sample Temperature: <u>2.8</u>		
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No
10/3/12	1730	SOIL	SWMU 1-5(10-12')	2 VIALS	SOBI	-017
				2 VIALS	MEDH	
				3 JARS	-	
	1745		SWMU 1-5(14-16')	2 VIALS	SOBI	-013
				2 VIALS	MEDH	
				3 JARS	-	
	1800		SWMU 1-5(16-18')	2 VIALS	SOBI	-014
				2 VIALS	MEDH	
				3 JARS	-	
	1810		SWMU 1-5(24-25')	2 VIALS	SOBI	-015
				2 VIALS	MEDH	
				2 JARS	-	
Date: 10/4/12	Time: 0709	Relinquished by: <u>[Signature]</u>		Received by: <u>[Signature]</u>		Date: 10/05/12
Date:	Time:	Relinquished by:		Received by:		Date: Time

Analysis Request

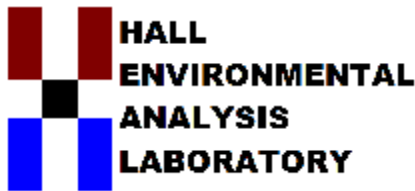
email or Fax#: <u>SCOTT CROUCH-RPS</u>				Project Manager:		
QA/QC Package:						
☒ Standard				☐ Level 4 (Full Validation)		
Accreditation						
☐ NELAP				☐ Other		
☒ EDD (Type) <u>EXCEL</u>						
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
10/3/12	1730	SOIL	SWMU 1-5(10-12')	2 VIALS	SOBI	-012
				2 VIALS	MEDH	
				3 JARS	-	
	1745		SWMU 1-5(14-16')	2 VIALS	SOBI	-013
				2 VIALS	MEDH	
				3 JARS	-	
	1800		SWMU 1-5(16-18')	2 VIALS	SOBI	-014
				2 VIALS	MEDH	
				3 JARS	-	
	1810		SWMU 1-5(24-25')	2 VIALS	SOBI	-015
				2 VIALS	MEDH	
				2 JARS	-	

[illegible]

Remarks:

Date: 05/4/12	Time: 0709	Relinquished by: 	Received by: 	Date 10/05/12	Time 0645
Date:	Time:	Relinquished by:	Received by:	Date	Time

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 14, 2012

Scott Crouch

Western Refining Southwest, Gallup

Rt. 3 Box 7

Gallup, NM 87301

TEL:

FAX

RE: SWMU NO.1

OrderNo.: 1210372

Dear Scott Crouch:

Hall Environmental Analysis Laboratory received 28 sample(s) on 10/6/2012 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued October 29, 2012.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", with a stylized flourish at the end.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (2-4')

Project: SWMU NO.1

Collection Date: 10/5/2012 2:10:00 PM

Lab ID: 1210372-001

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	4700	1000		mg/Kg	100	10/9/2012 12:21:25 PM
Motor Oil Range Organics (MRO)	ND	5000		mg/Kg	100	10/9/2012 12:21:25 PM
Surr: DNOP	0	77.6-140	S	%REC	100	10/9/2012 12:21:25 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	410	250		mg/Kg	50	10/10/2012 4:13:23 PM
Surr: BFB	159	84-116	S	%REC	50	10/10/2012 4:13:23 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	1.4	0.33		mg/kg	10	10/11/2012 3:46:24 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 2:29:04 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 2:29:04 PM
Barium	450	1.0		mg/Kg	10	10/11/2012 3:14:12 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 2:29:04 PM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 2:29:04 PM
Chromium	400	3.0		mg/Kg	10	10/11/2012 3:14:12 PM
Cobalt	8.1	1.5		mg/Kg	5	10/11/2012 2:29:04 PM
Iron	16000	500		mg/Kg	500	10/11/2012 3:19:11 PM
Lead	80	1.2		mg/Kg	5	10/11/2012 2:29:04 PM
Manganese	480	1.0		mg/Kg	10	10/11/2012 3:14:12 PM
Nickel	15	2.5		mg/Kg	5	10/11/2012 2:29:04 PM
Selenium	ND	12		mg/Kg	5	10/11/2012 2:29:04 PM
Silver	ND	1.2		mg/Kg	5	10/11/2012 2:29:04 PM
Vanadium	20	12		mg/Kg	5	10/11/2012 2:29:04 PM
Zinc	720	120		mg/Kg	50	10/11/2012 3:16:43 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Acenaphthylene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Aniline	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Anthracene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Azobenzene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Benz(a)anthracene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Benzo(a)pyrene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Benzo(b)fluoranthene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Benzo(g,h,i)perylene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Benzo(k)fluoranthene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Benzoic acid	ND	2.5		mg/Kg	1	10/10/2012 2:41:03 PM
Benzyl alcohol	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Bis(2-chloroethoxy)methane	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Bis(2-chloroethyl)ether	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Bis(2-chloroisopropyl)ether	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM

Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (2-4")

Project: SWMU NO.1

Collection Date: 10/5/2012 2:10:00 PM

Lab ID: 1210372-001

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	2.5		mg/Kg	1	10/10/2012 2:41:03 PM
4-Bromophenyl phenyl ether	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Butyl benzyl phthalate	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Carbazole	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
4-Chloro-3-methylphenol	ND	2.5		mg/Kg	1	10/10/2012 2:41:03 PM
4-Chloroaniline	ND	2.5		mg/Kg	1	10/10/2012 2:41:03 PM
2-Chloronaphthalene	ND	1.3		mg/Kg	1	10/10/2012 2:41:03 PM
2-Chlorophenol	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
4-Chlorophenyl phenyl ether	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Chrysene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Di-n-butyl phthalate	ND	2.5		mg/Kg	1	10/10/2012 2:41:03 PM
Di-n-octyl phthalate	ND	1.3		mg/Kg	1	10/10/2012 2:41:03 PM
Dibenz(a,h)anthracene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Dibenzofuran	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
1,2-Dichlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
1,3-Dichlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
1,4-Dichlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
3,3'-Dichlorobenzidine	ND	1.3		mg/Kg	1	10/10/2012 2:41:03 PM
Diethyl phthalate	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Dimethyl phthalate	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
2,4-Dichlorophenol	ND	2.0		mg/Kg	1	10/10/2012 2:41:03 PM
2,4-Dimethylphenol	ND	1.5		mg/Kg	1	10/10/2012 2:41:03 PM
4,6-Dinitro-2-methylphenol	ND	2.5		mg/Kg	1	10/10/2012 2:41:03 PM
2,4-Dinitrophenol	ND	2.0		mg/Kg	1	10/10/2012 2:41:03 PM
2,4-Dinitrotoluene	ND	2.5		mg/Kg	1	10/10/2012 2:41:03 PM
2,6-Dinitrotoluene	ND	2.5		mg/Kg	1	10/10/2012 2:41:03 PM
Fluoranthene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Fluorene	3.7	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Hexachlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Hexachlorobutadiene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Hexachlorocyclopentadiene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Hexachloroethane	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Indeno(1,2,3-cd)pyrene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Isophorone	ND	2.5		mg/Kg	1	10/10/2012 2:41:03 PM
1-Methylnaphthalene	43	10		mg/Kg	10	10/10/2012 3:12:23 PM
2-Methylnaphthalene	55	10		mg/Kg	10	10/10/2012 3:12:23 PM
2-Methylphenol	ND	2.5		mg/Kg	1	10/10/2012 2:41:03 PM
3+4-Methylphenol	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
N-Nitrosodi-n-propylamine	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
N-Nitrosodiphenylamine	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Naphthalene	7.9	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
2-Nitroaniline	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM

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- H Holding times for preparation or analysis exceeded
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- R RPD outside accepted recovery limits
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (2-4")

Project: SWMU NO.1

Collection Date: 10/5/2012 2:10:00 PM

Lab ID: 1210372-001

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
4-Nitroaniline	ND	2.0		mg/Kg	1	10/10/2012 2:41:03 PM
Nitrobenzene	ND	2.5		mg/Kg	1	10/10/2012 2:41:03 PM
2-Nitrophenol	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
4-Nitrophenol	ND	1.3		mg/Kg	1	10/10/2012 2:41:03 PM
Pentachlorophenol	ND	2.0		mg/Kg	1	10/10/2012 2:41:03 PM
Phenanthrene	11	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Phenol	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Pyrene	1.5	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Pyridine	ND	2.5		mg/Kg	1	10/10/2012 2:41:03 PM
1,2,4-Trichlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
2,4,5-Trichlorophenol	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
2,4,6-Trichlorophenol	ND	1.0		mg/Kg	1	10/10/2012 2:41:03 PM
Surr: 2,4,6-Tribromophenol	39.2	21.3-145		%REC	1	10/10/2012 2:41:03 PM
Surr: 2-Fluorobiphenyl	65.5	20-131		%REC	1	10/10/2012 2:41:03 PM
Surr: 2-Fluorophenol	76.1	11.9-130		%REC	1	10/10/2012 2:41:03 PM
Surr: 4-Terphenyl-d14	80.1	25.1-149		%REC	1	10/10/2012 2:41:03 PM
Surr: Nitrobenzene-d5	0	25.6-137	S	%REC	1	10/10/2012 2:41:03 PM
Surr: Phenol-d5	74.1	20.3-132		%REC	1	10/10/2012 2:41:03 PM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	3.2	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Toluene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Ethylbenzene	5.8	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Methyl tert-butyl ether (MTBE)	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,2,4-Trimethylbenzene	17	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,3,5-Trimethylbenzene	5.8	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,2-Dichloroethane (EDC)	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,2-Dibromoethane (EDB)	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Naphthalene	13	5.0		mg/Kg	50	10/15/2012 11:08:23 PM
1-Methylnaphthalene	35	10		mg/Kg	50	10/15/2012 11:08:23 PM
2-Methylnaphthalene	48	10		mg/Kg	50	10/15/2012 11:08:23 PM
Acetone	ND	38		mg/Kg	50	10/15/2012 11:08:23 PM
Bromobenzene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Bromodichloromethane	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Bromoform	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Bromomethane	ND	7.5		mg/Kg	50	10/15/2012 11:08:23 PM
2-Butanone	ND	25		mg/Kg	50	10/15/2012 11:08:23 PM
Carbon disulfide	ND	25		mg/Kg	50	10/15/2012 11:08:23 PM
Carbon tetrachloride	ND	5.0		mg/Kg	50	10/15/2012 11:08:23 PM
Chlorobenzene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Chloroethane	ND	5.0		mg/Kg	50	10/15/2012 11:08:23 PM

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- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (2-4')

Project: SWMU NO.1

Collection Date: 10/5/2012 2:10:00 PM

Lab ID: 1210372-001

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Chloroform	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Chloromethane	ND	7.5		mg/Kg	50	10/15/2012 11:08:23 PM
2-Chlorotoluene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
4-Chlorotoluene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
cis-1,2-DCE	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
cis-1,3-Dichloropropene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,2-Dibromo-3-chloropropane	ND	5.0		mg/Kg	50	10/15/2012 11:08:23 PM
Dibromochloromethane	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Dibromomethane	ND	5.0		mg/Kg	50	10/15/2012 11:08:23 PM
1,2-Dichlorobenzene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,3-Dichlorobenzene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,4-Dichlorobenzene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Dichlorodifluoromethane	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,1-Dichloroethane	ND	5.0		mg/Kg	50	10/15/2012 11:08:23 PM
1,1-Dichloroethene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,2-Dichloropropane	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,3-Dichloropropane	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
2,2-Dichloropropane	ND	5.0		mg/Kg	50	10/15/2012 11:08:23 PM
1,1-Dichloropropene	ND	5.0		mg/Kg	50	10/15/2012 11:08:23 PM
Hexachlorobutadiene	ND	5.0		mg/Kg	50	10/15/2012 11:08:23 PM
2-Hexanone	ND	25		mg/Kg	50	10/15/2012 11:08:23 PM
Isopropylbenzene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
4-Isopropyltoluene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
4-Methyl-2-pentanone	ND	25		mg/Kg	50	10/15/2012 11:08:23 PM
Methylene chloride	ND	7.5		mg/Kg	50	10/15/2012 11:08:23 PM
n-Butylbenzene	ND	7.5		mg/Kg	50	10/15/2012 11:08:23 PM
n-Propylbenzene	2.8	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
sec-Butylbenzene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Styrene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
tert-Butylbenzene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,1,1,2-Tetrachloroethane	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,1,2,2-Tetrachloroethane	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Tetrachloroethene (PCE)	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
trans-1,2-DCE	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
trans-1,3-Dichloropropene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,2,3-Trichlorobenzene	ND	5.0		mg/Kg	50	10/15/2012 11:08:23 PM
1,2,4-Trichlorobenzene	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,1,1-Trichloroethane	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,1,2-Trichloroethane	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Trichloroethene (TCE)	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Trichlorofluoromethane	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
1,2,3-Trichloropropane	ND	5.0		mg/Kg	50	10/15/2012 11:08:23 PM

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- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (2-4')

Project: SWMU NO.1

Collection Date: 10/5/2012 2:10:00 PM

Lab ID: 1210372-001

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Vinyl chloride	ND	2.5		mg/Kg	50	10/15/2012 11:08:23 PM
Xylenes, Total	24	5.0		mg/Kg	50	10/15/2012 11:08:23 PM
Surr: 1,2-Dichloroethane-d4	98.3	70-130		%REC	50	10/15/2012 11:08:23 PM
Surr: 4-Bromofluorobenzene	80.1	70-130		%REC	50	10/15/2012 11:08:23 PM
Surr: Dibromofluoromethane	91.8	70-130		%REC	50	10/15/2012 11:08:23 PM
Surr: Toluene-d8	98.8	70-130		%REC	50	10/15/2012 11:08:23 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (10-12')

Project: SWMU NO.1

Collection Date: 10/5/2012 2:15:00 PM

Lab ID: 1210372-002

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	820	100		mg/Kg	10	10/9/2012 11:59:39 AM
Motor Oil Range Organics (MRO)	ND	510		mg/Kg	10	10/9/2012 11:59:39 AM
Surr: DNOP	0	77.6-140	S	%REC	10	10/9/2012 11:59:39 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	10/10/2012 5:10:59 PM
Surr: BFB	124	84-116	S	%REC	5	10/10/2012 5:10:59 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/11/2012 3:19:49 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 2:47:13 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 2:47:13 PM
Barium	300	1.0		mg/Kg	10	10/11/2012 3:21:49 PM
Beryllium	1.2	0.75		mg/Kg	5	10/11/2012 2:47:13 PM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 2:47:13 PM
Chromium	16	1.5		mg/Kg	5	10/11/2012 2:47:13 PM
Cobalt	7.5	1.5		mg/Kg	5	10/11/2012 2:47:13 PM
Iron	23000	500		mg/Kg	500	10/11/2012 3:29:57 PM
Lead	3.3	1.2		mg/Kg	5	10/11/2012 2:47:13 PM
Manganese	290	1.0		mg/Kg	10	10/11/2012 3:21:49 PM
Nickel	15	2.5		mg/Kg	5	10/11/2012 2:47:13 PM
Selenium	ND	12		mg/Kg	5	10/11/2012 2:47:13 PM
Silver	ND	1.2		mg/Kg	5	10/11/2012 2:47:13 PM
Vanadium	25	12		mg/Kg	5	10/11/2012 2:47:13 PM
Zinc	29	12		mg/Kg	5	10/11/2012 2:47:13 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Benzoic acid	ND	0.50		mg/Kg	1	10/10/2012 3:05:05 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (10-12')

Project: SWMU NO.1

Collection Date: 10/5/2012 2:15:00 PM

Lab ID: 1210372-002

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/10/2012 3:05:05 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 3:05:05 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/10/2012 3:05:05 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 3:05:05 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/10/2012 3:05:05 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 3:05:05 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 3:05:05 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 3:05:05 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 3:05:05 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 3:05:05 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 3:05:05 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 3:05:05 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 3:05:05 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Fluorene	0.68	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Isophorone	ND	0.50		mg/Kg	1	10/10/2012 3:05:05 AM
1-Methylnaphthalene	7.9	2.0		mg/Kg	10	10/10/2012 1:10:56 PM
2-Methylnaphthalene	14	2.0		mg/Kg	10	10/10/2012 1:10:56 PM
2-Methylphenol	ND	0.50		mg/Kg	1	10/10/2012 3:05:05 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Naphthalene	1.1	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM

Qualifiers:

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- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (10-12')

Project: SWMU NO.1

Collection Date: 10/5/2012 2:15:00 PM

Lab ID: 1210372-002

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 3:05:05 AM
Nitrobenzene	ND	0.50		mg/Kg	1	10/10/2012 3:05:05 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 3:05:05 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 3:05:05 AM
Phenanthrene	1.5	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Pyridine	ND	0.50		mg/Kg	1	10/10/2012 3:05:05 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 3:05:05 AM
Surr: 2,4,6-Tribromophenol	66.8	21.3-145		%REC	1	10/10/2012 3:05:05 AM
Surr: 2-Fluorobiphenyl	80.4	20-131		%REC	1	10/10/2012 3:05:05 AM
Surr: 2-Fluorophenol	92.8	11.9-130		%REC	1	10/10/2012 3:05:05 AM
Surr: 4-Terphenyl-d14	79.4	25.1-149		%REC	1	10/10/2012 3:05:05 AM
Surr: Nitrobenzene-d5	94.3	25.6-137		%REC	1	10/10/2012 3:05:05 AM
Surr: Phenol-d5	97.2	20.3-132		%REC	1	10/10/2012 3:05:05 AM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Toluene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Ethylbenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Methyl tert-butyl ether (MTBE)	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,2,4-Trimethylbenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,3,5-Trimethylbenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,2-Dichloroethane (EDC)	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,2-Dibromoethane (EDB)	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Naphthalene	1.3	1.0		mg/Kg	10	10/15/2012 11:36:31 PM
1-Methylnaphthalene	6.4	2.0		mg/Kg	10	10/15/2012 11:36:31 PM
2-Methylnaphthalene	13	2.0		mg/Kg	10	10/15/2012 11:36:31 PM
Acetone	ND	7.5		mg/Kg	10	10/15/2012 11:36:31 PM
Bromobenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Bromodichloromethane	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Bromoform	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Bromomethane	ND	1.5		mg/Kg	10	10/15/2012 11:36:31 PM
2-Butanone	ND	5.0		mg/Kg	10	10/15/2012 11:36:31 PM
Carbon disulfide	ND	5.0		mg/Kg	10	10/15/2012 11:36:31 PM
Carbon tetrachloride	ND	1.0		mg/Kg	10	10/15/2012 11:36:31 PM
Chlorobenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Chloroethane	ND	1.0		mg/Kg	10	10/15/2012 11:36:31 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (10-12')

Project: SWMU NO.1

Collection Date: 10/5/2012 2:15:00 PM

Lab ID: 1210372-002

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Chloroform	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Chloromethane	ND	1.5		mg/Kg	10	10/15/2012 11:36:31 PM
2-Chlorotoluene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
4-Chlorotoluene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
cis-1,2-DCE	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
cis-1,3-Dichloropropene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,2-Dibromo-3-chloropropane	ND	1.0		mg/Kg	10	10/15/2012 11:36:31 PM
Dibromochloromethane	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Dibromomethane	ND	1.0		mg/Kg	10	10/15/2012 11:36:31 PM
1,2-Dichlorobenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,3-Dichlorobenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,4-Dichlorobenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Dichlorodifluoromethane	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,1-Dichloroethane	ND	1.0		mg/Kg	10	10/15/2012 11:36:31 PM
1,1-Dichloroethene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,2-Dichloropropane	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,3-Dichloropropane	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
2,2-Dichloropropane	ND	1.0		mg/Kg	10	10/15/2012 11:36:31 PM
1,1-Dichloropropene	ND	1.0		mg/Kg	10	10/15/2012 11:36:31 PM
Hexachlorobutadiene	ND	1.0		mg/Kg	10	10/15/2012 11:36:31 PM
2-Hexanone	ND	5.0		mg/Kg	10	10/15/2012 11:36:31 PM
Isopropylbenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
4-Isopropyltoluene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
4-Methyl-2-pentanone	ND	5.0		mg/Kg	10	10/15/2012 11:36:31 PM
Methylene chloride	ND	1.5		mg/Kg	10	10/15/2012 11:36:31 PM
n-Butylbenzene	ND	1.5		mg/Kg	10	10/15/2012 11:36:31 PM
n-Propylbenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
sec-Butylbenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Styrene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
tert-Butylbenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,1,1,2-Tetrachloroethane	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,1,2,2-Tetrachloroethane	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Tetrachloroethene (PCE)	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
trans-1,2-DCE	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
trans-1,3-Dichloropropene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,2,3-Trichlorobenzene	ND	1.0		mg/Kg	10	10/15/2012 11:36:31 PM
1,2,4-Trichlorobenzene	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,1,1-Trichloroethane	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,1,2-Trichloroethane	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Trichloroethene (TCE)	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Trichlorofluoromethane	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
1,2,3-Trichloropropane	ND	1.0		mg/Kg	10	10/15/2012 11:36:31 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (10-12')

Project: SWMU NO.1

Collection Date: 10/5/2012 2:15:00 PM

Lab ID: 1210372-002

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Vinyl chloride	ND	0.50		mg/Kg	10	10/15/2012 11:36:31 PM
Xylenes, Total	ND	1.0		mg/Kg	10	10/15/2012 11:36:31 PM
Surr: 1,2-Dichloroethane-d4	94.0	70-130		%REC	10	10/15/2012 11:36:31 PM
Surr: 4-Bromofluorobenzene	90.2	70-130		%REC	10	10/15/2012 11:36:31 PM
Surr: Dibromofluoromethane	91.4	70-130		%REC	10	10/15/2012 11:36:31 PM
Surr: Toluene-d8	95.0	70-130		%REC	10	10/15/2012 11:36:31 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (13-14')

Project: SWMU NO.1

Collection Date: 10/5/2012 2:30:00 PM

Lab ID: 1210372-003

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	55	10		mg/Kg	1	10/9/2012 9:16:28 AM
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	10/9/2012 9:16:28 AM
Surr: DNOP	99.7	77.6-140		%REC	1	10/9/2012 9:16:28 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/10/2012 6:08:27 PM
Surr: BFB	113	84-116		%REC	1	10/10/2012 6:08:27 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/11/2012 3:21:36 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	25		mg/Kg	10	10/11/2012 3:32:36 PM
Arsenic	ND	25		mg/Kg	10	10/11/2012 3:32:36 PM
Barium	630	5.0		mg/Kg	50	10/11/2012 3:39:36 PM
Beryllium	ND	1.5		mg/Kg	10	10/11/2012 3:32:36 PM
Cadmium	ND	1.0		mg/Kg	10	10/11/2012 3:32:36 PM
Chromium	6.8	3.0		mg/Kg	10	10/11/2012 3:32:36 PM
Cobalt	8.0	3.0		mg/Kg	10	10/11/2012 3:32:36 PM
Iron	8100	500		mg/Kg	500	10/11/2012 3:41:59 PM
Lead	ND	2.5		mg/Kg	10	10/11/2012 3:32:36 PM
Manganese	2800	50		mg/Kg	500	10/11/2012 3:41:59 PM
Nickel	8.3	5.0		mg/Kg	10	10/11/2012 3:32:36 PM
Selenium	ND	25		mg/Kg	10	10/11/2012 3:32:36 PM
Silver	ND	2.5		mg/Kg	10	10/11/2012 3:32:36 PM
Vanadium	30	25		mg/Kg	10	10/11/2012 3:32:36 PM
Zinc	ND	25		mg/Kg	10	10/11/2012 3:32:36 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Benzoic acid	ND	0.50		mg/Kg	1	10/10/2012 3:34:07 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (13-14')

Project: SWMU NO.1

Collection Date: 10/5/2012 2:30:00 PM

Lab ID: 1210372-003

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/10/2012 3:34:07 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 3:34:07 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/10/2012 3:34:07 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 3:34:07 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/10/2012 3:34:07 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 3:34:07 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 3:34:07 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 3:34:07 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 3:34:07 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 3:34:07 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 3:34:07 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 3:34:07 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 3:34:07 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Fluorene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Isophorone	ND	0.50		mg/Kg	1	10/10/2012 3:34:07 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
2-Methylphenol	ND	0.50		mg/Kg	1	10/10/2012 3:34:07 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Naphthalene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
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- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

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Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 3:34:07 AM
Nitrobenzene	ND	0.50		mg/Kg	1	10/10/2012 3:34:07 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 3:34:07 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 3:34:07 AM
Phenanthrene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Pyridine	ND	0.50		mg/Kg	1	10/10/2012 3:34:07 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 3:34:07 AM
Surr: 2,4,6-Tribromophenol	82.4	21.3-145		%REC	1	10/10/2012 3:34:07 AM
Surr: 2-Fluorobiphenyl	81.7	20-131		%REC	1	10/10/2012 3:34:07 AM
Surr: 2-Fluorophenol	79.4	11.9-130		%REC	1	10/10/2012 3:34:07 AM
Surr: 4-Terphenyl-d14	77.5	25.1-149		%REC	1	10/10/2012 3:34:07 AM
Surr: Nitrobenzene-d5	83.4	25.6-137		%REC	1	10/10/2012 3:34:07 AM
Surr: Phenol-d5	87.9	20.3-132		%REC	1	10/10/2012 3:34:07 AM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Toluene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Naphthalene	ND	0.10		mg/Kg	1	10/16/2012 12:32:33 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/16/2012 12:32:33 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/16/2012 12:32:33 AM
Acetone	ND	0.75		mg/Kg	1	10/16/2012 12:32:33 AM
Bromobenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Bromoform	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Bromomethane	ND	0.15		mg/Kg	1	10/16/2012 12:32:33 AM
2-Butanone	ND	0.50		mg/Kg	1	10/16/2012 12:32:33 AM
Carbon disulfide	ND	0.50		mg/Kg	1	10/16/2012 12:32:33 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	10/16/2012 12:32:33 AM
Chlorobenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Chloroethane	ND	0.10		mg/Kg	1	10/16/2012 12:32:33 AM

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- R RPD outside accepted recovery limits
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CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-1 (13-14')

Project: SWMU NO.1

Collection Date: 10/5/2012 2:30:00 PM

Lab ID: 1210372-003

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Chloroform	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Chloromethane	ND	0.15		mg/Kg	1	10/16/2012 12:32:33 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	10/16/2012 12:32:33 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Dibromomethane	ND	0.10		mg/Kg	1	10/16/2012 12:32:33 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	10/16/2012 12:32:33 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	10/16/2012 12:32:33 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	10/16/2012 12:32:33 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	10/16/2012 12:32:33 AM
2-Hexanone	ND	0.50		mg/Kg	1	10/16/2012 12:32:33 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	10/16/2012 12:32:33 AM
Methylene chloride	ND	0.15		mg/Kg	1	10/16/2012 12:32:33 AM
n-Butylbenzene	ND	0.15		mg/Kg	1	10/16/2012 12:32:33 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Styrene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	10/16/2012 12:32:33 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	10/16/2012 12:32:33 AM

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Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Vinyl chloride	ND	0.050		mg/Kg	1	10/16/2012 12:32:33 AM
Xylenes, Total	ND	0.10		mg/Kg	1	10/16/2012 12:32:33 AM
Surr: 1,2-Dichloroethane-d4	94.9	70-130		%REC	1	10/16/2012 12:32:33 AM
Surr: 4-Bromofluorobenzene	81.8	70-130		%REC	1	10/16/2012 12:32:33 AM
Surr: Dibromofluoromethane	92.1	70-130		%REC	1	10/16/2012 12:32:33 AM
Surr: Toluene-d8	99.7	70-130		%REC	1	10/16/2012 12:32:33 AM

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Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (16-18') DUP

Project: SWMU NO.1

Collection Date: 10/5/2012 11:10:00 AM

Lab ID: 1210372-004

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/9/2012 9:38:07 AM
Motor Oil Range Organics (MRO)	ND	52		mg/Kg	1	10/9/2012 9:38:07 AM
Surr: DNOP	91.2	77.6-140		%REC	1	10/9/2012 9:38:07 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/8/2012 8:34:40 PM
Surr: BFB	103	84-116		%REC	1	10/8/2012 8:34:40 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/11/2012 3:23:22 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 3:44:52 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 3:44:52 PM
Barium	530	5.0		mg/Kg	50	10/11/2012 3:47:18 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 3:44:52 PM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 3:44:52 PM
Chromium	6.6	1.5		mg/Kg	5	10/11/2012 3:44:52 PM
Cobalt	3.5	1.5		mg/Kg	5	10/11/2012 3:44:52 PM
Iron	9100	500		mg/Kg	500	10/11/2012 3:49:43 PM
Lead	2.5	1.2		mg/Kg	5	10/11/2012 3:44:52 PM
Manganese	660	5.0		mg/Kg	50	10/11/2012 3:47:18 PM
Nickel	4.4	2.5		mg/Kg	5	10/11/2012 3:44:52 PM
Selenium	ND	12		mg/Kg	5	10/11/2012 3:44:52 PM
Silver	ND	1.2		mg/Kg	5	10/11/2012 3:44:52 PM
Vanadium	23	12		mg/Kg	5	10/11/2012 3:44:52 PM
Zinc	ND	12		mg/Kg	5	10/11/2012 3:44:52 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Benzoic acid	ND	0.50		mg/Kg	1	10/10/2012 4:03:08 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM

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Project: SWMU NO.1

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Matrix: SOIL

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EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/10/2012 4:03:08 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 4:03:08 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/10/2012 4:03:08 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 4:03:08 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/10/2012 4:03:08 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 4:03:08 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 4:03:08 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 4:03:08 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 4:03:08 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 4:03:08 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 4:03:08 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 4:03:08 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 4:03:08 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Fluorene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Isophorone	ND	0.50		mg/Kg	1	10/10/2012 4:03:08 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
2-Methylphenol	ND	0.50		mg/Kg	1	10/10/2012 4:03:08 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Naphthalene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (16-18') DUP

Project: SWMU NO.1

Collection Date: 10/5/2012 11:10:00 AM

Lab ID: 1210372-004

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 4:03:08 AM
Nitrobenzene	ND	0.50		mg/Kg	1	10/10/2012 4:03:08 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 4:03:08 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 4:03:08 AM
Phenanthrene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Pyridine	ND	0.50		mg/Kg	1	10/10/2012 4:03:08 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 4:03:08 AM
Surr: 2,4,6-Tribromophenol	70.7	21.3-145		%REC	1	10/10/2012 4:03:08 AM
Surr: 2-Fluorobiphenyl	74.1	20-131		%REC	1	10/10/2012 4:03:08 AM
Surr: 2-Fluorophenol	74.7	11.9-130		%REC	1	10/10/2012 4:03:08 AM
Surr: 4-Terphenyl-d14	66.8	25.1-149		%REC	1	10/10/2012 4:03:08 AM
Surr: Nitrobenzene-d5	74.1	25.6-137		%REC	1	10/10/2012 4:03:08 AM
Surr: Phenol-d5	80.3	20.3-132		%REC	1	10/10/2012 4:03:08 AM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	0.00148	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Toluene	0.00121	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Ethylbenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Xylenes, Total	ND	0.00212		mg/Kg	1	10/9/2012 10:42:46 PM
Methyl tert-butyl ether (MTBE)	0.0240	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,2,4-Trimethylbenzene	0.00109	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,3,5-Trimethylbenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,2-Dichloroethane (EDC)	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,2-Dibromoethane (EDB)	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Naphthalene	ND	0.00212		mg/Kg	1	10/9/2012 10:42:46 PM
1-Methylnaphthalene	ND	0.00424		mg/Kg	1	10/9/2012 10:42:46 PM
2-Methylnaphthalene	ND	0.00424		mg/Kg	1	10/9/2012 10:42:46 PM
Acetone	0.0370	0.0106		mg/Kg	1	10/9/2012 10:42:46 PM
Bromobenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Bromodichloromethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Bromoform	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Bromomethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
2-Butanone	ND	0.0106		mg/Kg	1	10/9/2012 10:42:46 PM
Carbon tetrachloride	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Chlorobenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Chloroethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (16-18') DUP

Project: SWMU NO.1

Collection Date: 10/5/2012 11:10:00 AM

Lab ID: 1210372-004

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Chloromethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
2-Chlorotoluene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Carbon disulfide	ND	0.0106		mg/Kg	1	10/9/2012 10:42:46 PM
4-Chlorotoluene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
cis-1,2-DCE	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
cis-1,3-Dichloropropene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,2-Dibromo-3-chloropropane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Dibromochloromethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Dibromomethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,2-Dichlorobenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,3-Dichlorobenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,4-Dichlorobenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Dichlorodifluoromethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,1-Dichloroethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,1-Dichloroethene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,2-Dichloropropane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,3-Dichloropropane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
2,2-Dichloropropane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,1-Dichloropropene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Hexachlorobutadiene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Isopropylbenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
4-Isopropyltoluene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Methylene chloride	ND	0.00318		mg/Kg	1	10/9/2012 10:42:46 PM
n-Butylbenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
2-Hexanone	ND	0.0106		mg/Kg	1	10/9/2012 10:42:46 PM
n-Propylbenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
sec-Butylbenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Styrene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
4-Methyl-2-pentanone	ND	0.0106		mg/Kg	1	10/9/2012 10:42:46 PM
tert-Butylbenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,1,1,2-Tetrachloroethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,1,2,2-Tetrachloroethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Tetrachloroethene (PCE)	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
trans-1,2-DCE	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
trans-1,3-Dichloropropene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,2,3-Trichlorobenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,2,4-Trichlorobenzene	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,1,1-Trichloroethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
1,1,2-Trichloroethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Trichloroethene (TCE)	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Trichlorofluoromethane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (16-18') DUP

Project: SWMU NO.1

Collection Date: 10/5/2012 11:10:00 AM

Lab ID: 1210372-004

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Vinyl chloride	ND	0.00106		mg/Kg	1	10/9/2012 10:42:46 PM
Surr: 1,2-Dichloroethane-d4	97.6	70-130		%REC	1	10/9/2012 10:42:46 PM
Surr: 4-Bromofluorobenzene	95.0	70-130		%REC	1	10/9/2012 10:42:46 PM
Surr: Dibromofluoromethane	108	70-130		%REC	1	10/9/2012 10:42:46 PM
Surr: Toluene-d8	95.8	70-130		%REC	1	10/9/2012 10:42:46 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (19-20')

Project: SWMU NO.1

Collection Date: 10/5/2012 11:25:00 AM

Lab ID: 1210372-005

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/9/2012 9:59:40 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/9/2012 9:59:40 AM
Surr: DNOP	95.4	77.6-140		%REC	1	10/9/2012 9:59:40 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/8/2012 11:27:22 PM
Surr: BFB	100	84-116		%REC	1	10/8/2012 11:27:22 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/11/2012 3:25:08 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 3:52:34 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 3:52:34 PM
Barium	300	5.0		mg/Kg	50	10/11/2012 3:55:01 PM
Beryllium	0.95	0.75		mg/Kg	5	10/11/2012 3:52:34 PM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 3:52:34 PM
Chromium	14	1.5		mg/Kg	5	10/11/2012 3:52:34 PM
Cobalt	8.2	1.5		mg/Kg	5	10/11/2012 3:52:34 PM
Iron	19000	500		mg/Kg	500	10/11/2012 3:57:26 PM
Lead	ND	1.2		mg/Kg	5	10/11/2012 3:52:34 PM
Manganese	300	5.0		mg/Kg	50	10/11/2012 3:55:01 PM
Nickel	12	2.5		mg/Kg	5	10/11/2012 3:52:34 PM
Selenium	ND	12		mg/Kg	5	10/11/2012 3:52:34 PM
Silver	ND	1.2		mg/Kg	5	10/11/2012 3:52:34 PM
Vanadium	26	12		mg/Kg	5	10/11/2012 3:52:34 PM
Zinc	29	12		mg/Kg	5	10/11/2012 3:52:34 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Benzoic acid	ND	0.50		mg/Kg	1	10/10/2012 4:32:12 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (19-20')

Project: SWMU NO.1

Collection Date: 10/5/2012 11:25:00 AM

Lab ID: 1210372-005

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/10/2012 4:32:12 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 4:32:12 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/10/2012 4:32:12 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 4:32:12 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/10/2012 4:32:12 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 4:32:12 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 4:32:12 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 4:32:12 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 4:32:12 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 4:32:12 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 4:32:12 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 4:32:12 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 4:32:12 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Fluorene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Isophorone	ND	0.50		mg/Kg	1	10/10/2012 4:32:12 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
2-Methylphenol	ND	0.50		mg/Kg	1	10/10/2012 4:32:12 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Naphthalene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (19-20')

Project: SWMU NO.1

Collection Date: 10/5/2012 11:25:00 AM

Lab ID: 1210372-005

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 4:32:12 AM
Nitrobenzene	ND	0.50		mg/Kg	1	10/10/2012 4:32:12 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 4:32:12 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 4:32:12 AM
Phenanthrene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Pyridine	ND	0.50		mg/Kg	1	10/10/2012 4:32:12 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 4:32:12 AM
Surr: 2,4,6-Tribromophenol	62.5	21.3-145		%REC	1	10/10/2012 4:32:12 AM
Surr: 2-Fluorobiphenyl	55.9	20-131		%REC	1	10/10/2012 4:32:12 AM
Surr: 2-Fluorophenol	55.9	11.9-130		%REC	1	10/10/2012 4:32:12 AM
Surr: 4-Terphenyl-d14	54.9	25.1-149		%REC	1	10/10/2012 4:32:12 AM
Surr: Nitrobenzene-d5	56.1	25.6-137		%REC	1	10/10/2012 4:32:12 AM
Surr: Phenol-d5	60.2	20.3-132		%REC	1	10/10/2012 4:32:12 AM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Toluene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Ethylbenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Xylenes, Total	ND	0.00218		mg/Kg	1	10/9/2012 8:39:34 PM
Methyl tert-butyl ether (MTBE)	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,2,4-Trimethylbenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,3,5-Trimethylbenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,2-Dichloroethane (EDC)	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,2-Dibromoethane (EDB)	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Naphthalene	ND	0.00218		mg/Kg	1	10/9/2012 8:39:34 PM
1-Methylnaphthalene	ND	0.00435		mg/Kg	1	10/9/2012 8:39:34 PM
2-Methylnaphthalene	ND	0.00435		mg/Kg	1	10/9/2012 8:39:34 PM
Acetone	0.0272	0.0109		mg/Kg	1	10/9/2012 8:39:34 PM
Bromobenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Bromodichloromethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Bromoform	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Bromomethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
2-Butanone	ND	0.0109		mg/Kg	1	10/9/2012 8:39:34 PM
Carbon tetrachloride	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Chlorobenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Chloroethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (19-20')

Project: SWMU NO.1

Collection Date: 10/5/2012 11:25:00 AM

Lab ID: 1210372-005

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Chloromethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
2-Chlorotoluene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Carbon disulfide	ND	0.0109		mg/Kg	1	10/9/2012 8:39:34 PM
4-Chlorotoluene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
cis-1,2-DCE	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
cis-1,3-Dichloropropene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,2-Dibromo-3-chloropropane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Dibromochloromethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Dibromomethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,2-Dichlorobenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,3-Dichlorobenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,4-Dichlorobenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Dichlorodifluoromethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,1-Dichloroethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,1-Dichloroethene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,2-Dichloropropane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,3-Dichloropropane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
2,2-Dichloropropane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,1-Dichloropropene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Hexachlorobutadiene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Isopropylbenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
4-Isopropyltoluene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Methylene chloride	ND	0.00326		mg/Kg	1	10/9/2012 8:39:34 PM
n-Butylbenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
2-Hexanone	ND	0.0109		mg/Kg	1	10/9/2012 8:39:34 PM
n-Propylbenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
sec-Butylbenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Styrene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
4-Methyl-2-pentanone	ND	0.0109		mg/Kg	1	10/9/2012 8:39:34 PM
tert-Butylbenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,1,1,2-Tetrachloroethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,1,2,2-Tetrachloroethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Tetrachloroethene (PCE)	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
trans-1,2-DCE	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
trans-1,3-Dichloropropene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,2,3-Trichlorobenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,2,4-Trichlorobenzene	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,1,1-Trichloroethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
1,1,2-Trichloroethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Trichloroethene (TCE)	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Trichlorofluoromethane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (19-20')

Project: SWMU NO.1

Collection Date: 10/5/2012 11:25:00 AM

Lab ID: 1210372-005

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Vinyl chloride	ND	0.00109		mg/Kg	1	10/9/2012 8:39:34 PM
Surr: 1,2-Dichloroethane-d4	89.0	70-130		%REC	1	10/9/2012 8:39:34 PM
Surr: 4-Bromofluorobenzene	115	70-130		%REC	1	10/9/2012 8:39:34 PM
Surr: Dibromofluoromethane	99.5	70-130		%REC	1	10/9/2012 8:39:34 PM
Surr: Toluene-d8	88.4	70-130		%REC	1	10/9/2012 8:39:34 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (4-6")

Project: SWMU NO.1

Collection Date: 10/5/2012 10:20:00 AM

Lab ID: 1210372-006

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/9/2012 10:32:04 AM
Motor Oil Range Organics (MRO)	ND	52		mg/Kg	1	10/9/2012 10:32:04 AM
Surr: DNOP	103	77.6-140		%REC	1	10/9/2012 10:32:04 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/10/2012 6:37:17 PM
Surr: BFB	108	84-116		%REC	1	10/10/2012 6:37:17 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/11/2012 3:26:55 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 4:05:56 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 4:05:56 PM
Barium	540	5.0		mg/Kg	50	10/11/2012 4:10:00 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 4:05:56 PM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 4:05:56 PM
Chromium	5.3	1.5		mg/Kg	5	10/11/2012 4:05:56 PM
Cobalt	3.0	1.5		mg/Kg	5	10/11/2012 4:05:56 PM
Iron	7900	500		mg/Kg	500	10/11/2012 4:15:16 PM
Lead	3.4	1.2		mg/Kg	5	10/11/2012 4:05:56 PM
Manganese	390	5.0		mg/Kg	50	10/11/2012 4:10:00 PM
Nickel	4.5	2.5		mg/Kg	5	10/11/2012 4:05:56 PM
Selenium	ND	12		mg/Kg	5	10/11/2012 4:05:56 PM
Silver	ND	1.2		mg/Kg	5	10/11/2012 4:05:56 PM
Vanadium	19	12		mg/Kg	5	10/11/2012 4:05:56 PM
Zinc	ND	12		mg/Kg	5	10/11/2012 4:05:56 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Benzoic acid	ND	0.50		mg/Kg	1	10/10/2012 5:01:17 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
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- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (4-6")

Project: SWMU NO.1

Collection Date: 10/5/2012 10:20:00 AM

Lab ID: 1210372-006

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/10/2012 5:01:17 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 5:01:17 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/10/2012 5:01:17 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 5:01:17 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/10/2012 5:01:17 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 5:01:17 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 5:01:17 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 5:01:17 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 5:01:17 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 5:01:17 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 5:01:17 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 5:01:17 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 5:01:17 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Fluorene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Isophorone	ND	0.50		mg/Kg	1	10/10/2012 5:01:17 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
2-Methylphenol	ND	0.50		mg/Kg	1	10/10/2012 5:01:17 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Naphthalene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (4-6")

Project: SWMU NO.1

Collection Date: 10/5/2012 10:20:00 AM

Lab ID: 1210372-006

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 5:01:17 AM
Nitrobenzene	ND	0.50		mg/Kg	1	10/10/2012 5:01:17 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 5:01:17 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 5:01:17 AM
Phenanthrene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Pyridine	ND	0.50		mg/Kg	1	10/10/2012 5:01:17 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 5:01:17 AM
Surr: 2,4,6-Tribromophenol	97.6	21.3-145		%REC	1	10/10/2012 5:01:17 AM
Surr: 2-Fluorobiphenyl	91.8	20-131		%REC	1	10/10/2012 5:01:17 AM
Surr: 2-Fluorophenol	87.8	11.9-130		%REC	1	10/10/2012 5:01:17 AM
Surr: 4-Terphenyl-d14	79.3	25.1-149		%REC	1	10/10/2012 5:01:17 AM
Surr: Nitrobenzene-d5	93.8	25.6-137		%REC	1	10/10/2012 5:01:17 AM
Surr: Phenol-d5	94.4	20.3-132		%REC	1	10/10/2012 5:01:17 AM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	0.00240	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Toluene	0.00218	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Ethylbenzene	0.00249	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Xylenes, Total	0.0128	0.00162		mg/Kg	1	10/9/2012 9:10:16 PM
Methyl tert-butyl ether (MTBE)	0.00810	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,2,4-Trimethylbenzene	0.0102	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,3,5-Trimethylbenzene	0.00249	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,2-Dichloroethane (EDC)	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,2-Dibromoethane (EDB)	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Naphthalene	0.0113	0.00162		mg/Kg	1	10/9/2012 9:10:16 PM
1-Methylnaphthalene	0.0164	0.00325		mg/Kg	1	10/9/2012 9:10:16 PM
2-Methylnaphthalene	0.0168	0.00325		mg/Kg	1	10/9/2012 9:10:16 PM
Acetone	0.114	0.00812		mg/Kg	1	10/9/2012 9:10:16 PM
Bromobenzene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Bromodichloromethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Bromoform	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Bromomethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
2-Butanone	0.0177	0.00812		mg/Kg	1	10/9/2012 9:10:16 PM
Carbon tetrachloride	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Chlorobenzene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Chloroethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (4-6")

Project: SWMU NO.1

Collection Date: 10/5/2012 10:20:00 AM

Lab ID: 1210372-006

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Chloromethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
2-Chlorotoluene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Carbon disulfide	ND	0.00812		mg/Kg	1	10/9/2012 9:10:16 PM
4-Chlorotoluene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
cis-1,2-DCE	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
cis-1,3-Dichloropropene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,2-Dibromo-3-chloropropane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Dibromochloromethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Dibromomethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,2-Dichlorobenzene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,3-Dichlorobenzene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,4-Dichlorobenzene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Dichlorodifluoromethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,1-Dichloroethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,1-Dichloroethene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,2-Dichloropropane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,3-Dichloropropane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
2,2-Dichloropropane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,1-Dichloropropene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Hexachlorobutadiene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Isopropylbenzene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
4-Isopropyltoluene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Methylene chloride	ND	0.00244		mg/Kg	1	10/9/2012 9:10:16 PM
n-Butylbenzene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
2-Hexanone	ND	0.00812		mg/Kg	1	10/9/2012 9:10:16 PM
n-Propylbenzene	0.00136	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
sec-Butylbenzene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Styrene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
4-Methyl-2-pentanone	ND	0.00812		mg/Kg	1	10/9/2012 9:10:16 PM
tert-Butylbenzene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,1,1,2-Tetrachloroethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,1,2,2-Tetrachloroethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Tetrachloroethene (PCE)	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
trans-1,2-DCE	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
trans-1,3-Dichloropropene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,2,3-Trichlorobenzene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,2,4-Trichlorobenzene	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,1,1-Trichloroethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
1,1,2-Trichloroethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Trichloroethene (TCE)	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Trichlorofluoromethane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (4-6')

Project: SWMU NO.1

Collection Date: 10/5/2012 10:20:00 AM

Lab ID: 1210372-006

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Vinyl chloride	ND	0.000812		mg/Kg	1	10/9/2012 9:10:16 PM
Surr: 1,2-Dichloroethane-d4	99.2	70-130		%REC	1	10/9/2012 9:10:16 PM
Surr: 4-Bromofluorobenzene	113	70-130		%REC	1	10/9/2012 9:10:16 PM
Surr: Dibromofluoromethane	105	70-130		%REC	1	10/9/2012 9:10:16 PM
Surr: Toluene-d8	89.2	70-130		%REC	1	10/9/2012 9:10:16 PM

Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (10-12')

Project: SWMU NO.1

Collection Date: 10/5/2012 10:30:00 AM

Lab ID: 1210372-007

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	100	10		mg/Kg	1	10/9/2012 1:49:44 PM
Motor Oil Range Organics (MRO)	280	51		mg/Kg	1	10/9/2012 1:49:44 PM
Surr: DNOP	122	77.6-140		%REC	1	10/9/2012 1:49:44 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/9/2012 12:24:53 AM
Surr: BFB	103	84-116		%REC	1	10/9/2012 12:24:53 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	0.16	0.033		mg/kg	1	10/11/2012 3:28:43 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 4:18:09 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 4:18:09 PM
Barium	620	5.0		mg/Kg	50	10/11/2012 4:20:33 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 4:18:09 PM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 4:18:09 PM
Chromium	21	1.5		mg/Kg	5	10/11/2012 4:18:09 PM
Cobalt	6.6	1.5		mg/Kg	5	10/11/2012 4:18:09 PM
Iron	15000	500		mg/Kg	500	10/11/2012 4:22:59 PM
Lead	8.2	1.2		mg/Kg	5	10/11/2012 4:18:09 PM
Manganese	810	5.0		mg/Kg	50	10/11/2012 4:20:33 PM
Nickel	16	2.5		mg/Kg	5	10/11/2012 4:18:09 PM
Selenium	ND	12		mg/Kg	5	10/11/2012 4:18:09 PM
Silver	ND	1.2		mg/Kg	5	10/11/2012 4:18:09 PM
Vanadium	26	12		mg/Kg	5	10/11/2012 4:18:09 PM
Zinc	60	12		mg/Kg	5	10/11/2012 4:18:09 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Acenaphthylene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Aniline	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Anthracene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Azobenzene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Benz(a)anthracene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Benzo(a)pyrene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Benzo(b)fluoranthene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Benzo(g,h,i)perylene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Benzo(k)fluoranthene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Benzoic acid	ND	2.5		mg/Kg	1	10/10/2012 1:40:56 PM
Benzyl alcohol	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Bis(2-chloroethoxy)methane	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Bis(2-chloroethyl)ether	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Bis(2-chloroisopropyl)ether	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM

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- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (10-12')

Project: SWMU NO.1

Collection Date: 10/5/2012 10:30:00 AM

Lab ID: 1210372-007

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	2.5		mg/Kg	1	10/10/2012 1:40:56 PM
4-Bromophenyl phenyl ether	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Butyl benzyl phthalate	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Carbazole	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
4-Chloro-3-methylphenol	ND	2.5		mg/Kg	1	10/10/2012 1:40:56 PM
4-Chloroaniline	ND	2.5		mg/Kg	1	10/10/2012 1:40:56 PM
2-Chloronaphthalene	ND	1.3		mg/Kg	1	10/10/2012 1:40:56 PM
2-Chlorophenol	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
4-Chlorophenyl phenyl ether	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Chrysene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Di-n-butyl phthalate	ND	2.5		mg/Kg	1	10/10/2012 1:40:56 PM
Di-n-octyl phthalate	ND	1.3		mg/Kg	1	10/10/2012 1:40:56 PM
Dibenz(a,h)anthracene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Dibenzofuran	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
1,2-Dichlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
1,3-Dichlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
1,4-Dichlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
3,3'-Dichlorobenzidine	ND	1.3		mg/Kg	1	10/10/2012 1:40:56 PM
Diethyl phthalate	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Dimethyl phthalate	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
2,4-Dichlorophenol	ND	2.0		mg/Kg	1	10/10/2012 1:40:56 PM
2,4-Dimethylphenol	ND	1.5		mg/Kg	1	10/10/2012 1:40:56 PM
4,6-Dinitro-2-methylphenol	ND	2.5		mg/Kg	1	10/10/2012 1:40:56 PM
2,4-Dinitrophenol	ND	2.0		mg/Kg	1	10/10/2012 1:40:56 PM
2,4-Dinitrotoluene	ND	2.5		mg/Kg	1	10/10/2012 1:40:56 PM
2,6-Dinitrotoluene	ND	2.5		mg/Kg	1	10/10/2012 1:40:56 PM
Fluoranthene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Fluorene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Hexachlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Hexachlorobutadiene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Hexachlorocyclopentadiene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Hexachloroethane	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Indeno(1,2,3-cd)pyrene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Isophorone	ND	2.5		mg/Kg	1	10/10/2012 1:40:56 PM
1-Methylnaphthalene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
2-Methylnaphthalene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
2-Methylphenol	ND	2.5		mg/Kg	1	10/10/2012 1:40:56 PM
3+4-Methylphenol	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
N-Nitrosodi-n-propylamine	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
N-Nitrosodiphenylamine	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Naphthalene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
2-Nitroaniline	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (10-12')

Project: SWMU NO.1

Collection Date: 10/5/2012 10:30:00 AM

Lab ID: 1210372-007

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
4-Nitroaniline	ND	2.0		mg/Kg	1	10/10/2012 1:40:56 PM
Nitrobenzene	ND	2.5		mg/Kg	1	10/10/2012 1:40:56 PM
2-Nitrophenol	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
4-Nitrophenol	ND	1.3		mg/Kg	1	10/10/2012 1:40:56 PM
Pentachlorophenol	ND	2.0		mg/Kg	1	10/10/2012 1:40:56 PM
Phenanthrene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Phenol	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Pyrene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Pyridine	ND	2.5		mg/Kg	1	10/10/2012 1:40:56 PM
1,2,4-Trichlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
2,4,5-Trichlorophenol	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
2,4,6-Trichlorophenol	ND	1.0		mg/Kg	1	10/10/2012 1:40:56 PM
Surr: 2,4,6-Tribromophenol	120	21.3-145		%REC	1	10/10/2012 1:40:56 PM
Surr: 2-Fluorobiphenyl	102	20-131		%REC	1	10/10/2012 1:40:56 PM
Surr: 2-Fluorophenol	112	11.9-130		%REC	1	10/10/2012 1:40:56 PM
Surr: 4-Terphenyl-d14	103	25.1-149		%REC	1	10/10/2012 1:40:56 PM
Surr: Nitrobenzene-d5	103	25.6-137		%REC	1	10/10/2012 1:40:56 PM
Surr: Phenol-d5	107	20.3-132		%REC	1	10/10/2012 1:40:56 PM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	0.00119	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Toluene	0.00426	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Ethylbenzene	0.00470	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Xylenes, Total	0.0262	0.00186		mg/Kg	1	10/9/2012 9:41:06 PM
Methyl tert-butyl ether (MTBE)	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,2,4-Trimethylbenzene	0.00358	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,3,5-Trimethylbenzene	0.000978	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,2-Dichloroethane (EDC)	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,2-Dibromoethane (EDB)	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Naphthalene	ND	0.00186		mg/Kg	1	10/9/2012 9:41:06 PM
1-Methylnaphthalene	ND	0.00372		mg/Kg	1	10/9/2012 9:41:06 PM
2-Methylnaphthalene	ND	0.00372		mg/Kg	1	10/9/2012 9:41:06 PM
Acetone	0.145	0.00931		mg/Kg	1	10/9/2012 9:41:06 PM
Bromobenzene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Bromodichloromethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Bromoform	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Bromomethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
2-Butanone	ND	0.00931		mg/Kg	1	10/9/2012 9:41:06 PM
Carbon tetrachloride	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Chlorobenzene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Chloroethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (10-12')

Project: SWMU NO.1

Collection Date: 10/5/2012 10:30:00 AM

Lab ID: 1210372-007

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Chloromethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
2-Chlorotoluene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Carbon disulfide	ND	0.00931		mg/Kg	1	10/9/2012 9:41:06 PM
4-Chlorotoluene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
cis-1,2-DCE	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
cis-1,3-Dichloropropene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,2-Dibromo-3-chloropropane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Dibromochloromethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Dibromomethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,2-Dichlorobenzene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,3-Dichlorobenzene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,4-Dichlorobenzene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Dichlorodifluoromethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,1-Dichloroethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,1-Dichloroethene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,2-Dichloropropane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,3-Dichloropropane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
2,2-Dichloropropane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,1-Dichloropropene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Hexachlorobutadiene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Isopropylbenzene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
4-Isopropyltoluene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Methylene chloride	ND	0.00279		mg/Kg	1	10/9/2012 9:41:06 PM
n-Butylbenzene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
2-Hexanone	ND	0.00931		mg/Kg	1	10/9/2012 9:41:06 PM
n-Propylbenzene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
sec-Butylbenzene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Styrene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
4-Methyl-2-pentanone	ND	0.00931		mg/Kg	1	10/9/2012 9:41:06 PM
tert-Butylbenzene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,1,1,2-Tetrachloroethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,1,2,2-Tetrachloroethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Tetrachloroethene (PCE)	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
trans-1,2-DCE	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
trans-1,3-Dichloropropene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,2,3-Trichlorobenzene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,2,4-Trichlorobenzene	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,1,1-Trichloroethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
1,1,2-Trichloroethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Trichloroethene (TCE)	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Trichlorofluoromethane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (10-12')

Project: SWMU NO.1

Collection Date: 10/5/2012 10:30:00 AM

Lab ID: 1210372-007

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Vinyl chloride	ND	0.000931		mg/Kg	1	10/9/2012 9:41:06 PM
Surr: 1,2-Dichloroethane-d4	97.6	70-130		%REC	1	10/9/2012 9:41:06 PM
Surr: 4-Bromofluorobenzene	114	70-130		%REC	1	10/9/2012 9:41:06 PM
Surr: Dibromofluoromethane	104	70-130		%REC	1	10/9/2012 9:41:06 PM
Surr: Toluene-d8	123	70-130		%REC	1	10/9/2012 9:41:06 PM

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- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (12-14')

Project: SWMU NO.1

Collection Date: 10/5/2012 10:40:00 AM

Lab ID: 1210372-008

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	53	9.9		mg/Kg	1	10/9/2012 1:04:41 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/9/2012 1:04:41 PM
Surr: DNOP	103	77.6-140		%REC	1	10/9/2012 1:04:41 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/10/2012 7:06:08 PM
Surr: BFB	140	84-116	S	%REC	1	10/10/2012 7:06:08 PM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	0.044	0.033		mg/kg	1	10/11/2012 3:30:31 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 4:25:38 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 4:25:38 PM
Barium	370	5.0		mg/Kg	50	10/11/2012 4:28:05 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 4:25:38 PM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 4:25:38 PM
Chromium	10	1.5		mg/Kg	5	10/11/2012 4:25:38 PM
Cobalt	4.1	1.5		mg/Kg	5	10/11/2012 4:25:38 PM
Iron	8000	500		mg/Kg	500	10/11/2012 4:30:34 PM
Lead	2.0	1.2		mg/Kg	5	10/11/2012 4:25:38 PM
Manganese	540	5.0		mg/Kg	50	10/11/2012 4:28:05 PM
Nickel	6.8	2.5		mg/Kg	5	10/11/2012 4:25:38 PM
Selenium	ND	12		mg/Kg	5	10/11/2012 4:25:38 PM
Silver	ND	1.2		mg/Kg	5	10/11/2012 4:25:38 PM
Vanadium	15	12		mg/Kg	5	10/11/2012 4:25:38 PM
Zinc	18	12		mg/Kg	5	10/11/2012 4:25:38 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Acenaphthylene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Aniline	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Anthracene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Azobenzene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Benz(a)anthracene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Benzo(a)pyrene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Benzo(b)fluoranthene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Benzo(g,h,i)perylene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Benzo(k)fluoranthene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Benzoic acid	ND	2.5		mg/Kg	1	10/10/2012 2:10:57 PM
Benzyl alcohol	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Bis(2-chloroethoxy)methane	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Bis(2-chloroethyl)ether	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Bis(2-chloroisopropyl)ether	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (12-14')

Project: SWMU NO.1

Collection Date: 10/5/2012 10:40:00 AM

Lab ID: 1210372-008

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	2.5		mg/Kg	1	10/10/2012 2:10:57 PM
4-Bromophenyl phenyl ether	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Butyl benzyl phthalate	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Carbazole	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
4-Chloro-3-methylphenol	ND	2.5		mg/Kg	1	10/10/2012 2:10:57 PM
4-Chloroaniline	ND	2.5		mg/Kg	1	10/10/2012 2:10:57 PM
2-Chloronaphthalene	ND	1.3		mg/Kg	1	10/10/2012 2:10:57 PM
2-Chlorophenol	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
4-Chlorophenyl phenyl ether	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Chrysene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Di-n-butyl phthalate	ND	2.5		mg/Kg	1	10/10/2012 2:10:57 PM
Di-n-octyl phthalate	ND	1.3		mg/Kg	1	10/10/2012 2:10:57 PM
Dibenz(a,h)anthracene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Dibenzofuran	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
1,2-Dichlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
1,3-Dichlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
1,4-Dichlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
3,3'-Dichlorobenzidine	ND	1.3		mg/Kg	1	10/10/2012 2:10:57 PM
Diethyl phthalate	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Dimethyl phthalate	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
2,4-Dichlorophenol	ND	2.0		mg/Kg	1	10/10/2012 2:10:57 PM
2,4-Dimethylphenol	ND	1.5		mg/Kg	1	10/10/2012 2:10:57 PM
4,6-Dinitro-2-methylphenol	ND	2.5		mg/Kg	1	10/10/2012 2:10:57 PM
2,4-Dinitrophenol	ND	2.0		mg/Kg	1	10/10/2012 2:10:57 PM
2,4-Dinitrotoluene	ND	2.5		mg/Kg	1	10/10/2012 2:10:57 PM
2,6-Dinitrotoluene	ND	2.5		mg/Kg	1	10/10/2012 2:10:57 PM
Fluoranthene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Fluorene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Hexachlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Hexachlorobutadiene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Hexachlorocyclopentadiene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Hexachloroethane	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Indeno(1,2,3-cd)pyrene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Isophorone	ND	2.5		mg/Kg	1	10/10/2012 2:10:57 PM
1-Methylnaphthalene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
2-Methylnaphthalene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
2-Methylphenol	ND	2.5		mg/Kg	1	10/10/2012 2:10:57 PM
3+4-Methylphenol	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
N-Nitrosodi-n-propylamine	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
N-Nitrosodiphenylamine	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Naphthalene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
2-Nitroaniline	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM

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- H Holding times for preparation or analysis exceeded
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (12-14')

Project: SWMU NO.1

Collection Date: 10/5/2012 10:40:00 AM

Lab ID: 1210372-008

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
4-Nitroaniline	ND	2.0		mg/Kg	1	10/10/2012 2:10:57 PM
Nitrobenzene	ND	2.5		mg/Kg	1	10/10/2012 2:10:57 PM
2-Nitrophenol	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
4-Nitrophenol	ND	1.3		mg/Kg	1	10/10/2012 2:10:57 PM
Pentachlorophenol	ND	2.0		mg/Kg	1	10/10/2012 2:10:57 PM
Phenanthrene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Phenol	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Pyrene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Pyridine	ND	2.5		mg/Kg	1	10/10/2012 2:10:57 PM
1,2,4-Trichlorobenzene	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
2,4,5-Trichlorophenol	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
2,4,6-Trichlorophenol	ND	1.0		mg/Kg	1	10/10/2012 2:10:57 PM
Surr: 2,4,6-Tribromophenol	101	21.3-145		%REC	1	10/10/2012 2:10:57 PM
Surr: 2-Fluorobiphenyl	85.7	20-131		%REC	1	10/10/2012 2:10:57 PM
Surr: 2-Fluorophenol	91.5	11.9-130		%REC	1	10/10/2012 2:10:57 PM
Surr: 4-Terphenyl-d14	82.4	25.1-149		%REC	1	10/10/2012 2:10:57 PM
Surr: Nitrobenzene-d5	84.9	25.6-137		%REC	1	10/10/2012 2:10:57 PM
Surr: Phenol-d5	97.2	20.3-132		%REC	1	10/10/2012 2:10:57 PM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Toluene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Naphthalene	ND	0.10		mg/Kg	1	10/16/2012 1:00:38 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/16/2012 1:00:38 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/16/2012 1:00:38 AM
Acetone	ND	0.75		mg/Kg	1	10/16/2012 1:00:38 AM
Bromobenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Bromoform	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Bromomethane	ND	0.15		mg/Kg	1	10/16/2012 1:00:38 AM
2-Butanone	ND	0.50		mg/Kg	1	10/16/2012 1:00:38 AM
Carbon disulfide	ND	0.50		mg/Kg	1	10/16/2012 1:00:38 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	10/16/2012 1:00:38 AM
Chlorobenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Chloroethane	ND	0.10		mg/Kg	1	10/16/2012 1:00:38 AM

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- P Sample pH greater than 2
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Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (12-14')

Project: SWMU NO.1

Collection Date: 10/5/2012 10:40:00 AM

Lab ID: 1210372-008

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Chloroform	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Chloromethane	ND	0.15		mg/Kg	1	10/16/2012 1:00:38 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	10/16/2012 1:00:38 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Dibromomethane	ND	0.10		mg/Kg	1	10/16/2012 1:00:38 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	10/16/2012 1:00:38 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	10/16/2012 1:00:38 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	10/16/2012 1:00:38 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	10/16/2012 1:00:38 AM
2-Hexanone	ND	0.50		mg/Kg	1	10/16/2012 1:00:38 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	10/16/2012 1:00:38 AM
Methylene chloride	ND	0.15		mg/Kg	1	10/16/2012 1:00:38 AM
n-Butylbenzene	ND	0.15		mg/Kg	1	10/16/2012 1:00:38 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Styrene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	10/16/2012 1:00:38 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	10/16/2012 1:00:38 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (12-14')

Project: SWMU NO.1

Collection Date: 10/5/2012 10:40:00 AM

Lab ID: 1210372-008

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Vinyl chloride	ND	0.050		mg/Kg	1	10/16/2012 1:00:38 AM
Xylenes, Total	ND	0.10		mg/Kg	1	10/16/2012 1:00:38 AM
Surr: 1,2-Dichloroethane-d4	94.6	70-130		%REC	1	10/16/2012 1:00:38 AM
Surr: 4-Bromofluorobenzene	74.4	70-130		%REC	1	10/16/2012 1:00:38 AM
Surr: Dibromofluoromethane	92.3	70-130		%REC	1	10/16/2012 1:00:38 AM
Surr: Toluene-d8	100	70-130		%REC	1	10/16/2012 1:00:38 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (16-18')

Project: SWMU NO.1

Collection Date: 10/5/2012 11:10:00 AM

Lab ID: 1210372-009

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/9/2012 10:53:40 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/9/2012 10:53:40 AM
Surr: DNOP	93.9	77.6-140		%REC	1	10/9/2012 10:53:40 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/11/2012 12:22:40 AM
Surr: BFB	105	84-116		%REC	1	10/11/2012 12:22:40 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/11/2012 3:32:16 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 4:33:26 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 4:33:26 PM
Barium	550	5.0		mg/Kg	50	10/11/2012 4:43:28 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 4:33:26 PM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 4:33:26 PM
Chromium	6.9	1.5		mg/Kg	5	10/11/2012 4:33:26 PM
Cobalt	4.4	1.5		mg/Kg	5	10/11/2012 4:33:26 PM
Iron	11000	500		mg/Kg	500	10/11/2012 4:45:54 PM
Lead	2.8	1.2		mg/Kg	5	10/11/2012 4:33:26 PM
Manganese	740	5.0		mg/Kg	50	10/11/2012 4:43:28 PM
Nickel	6.1	2.5		mg/Kg	5	10/11/2012 4:33:26 PM
Selenium	ND	12		mg/Kg	5	10/11/2012 4:33:26 PM
Silver	ND	1.2		mg/Kg	5	10/11/2012 4:33:26 PM
Vanadium	16	12		mg/Kg	5	10/11/2012 4:33:26 PM
Zinc	14	12		mg/Kg	5	10/11/2012 4:33:26 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Benzoic acid	ND	0.50		mg/Kg	1	10/10/2012 5:30:21 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (16-18')

Project: SWMU NO.1

Collection Date: 10/5/2012 11:10:00 AM

Lab ID: 1210372-009

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/10/2012 5:30:21 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 5:30:21 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/10/2012 5:30:21 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 5:30:21 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/10/2012 5:30:21 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 5:30:21 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 5:30:21 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 5:30:21 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 5:30:21 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 5:30:21 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 5:30:21 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 5:30:21 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 5:30:21 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Fluorene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Isophorone	ND	0.50		mg/Kg	1	10/10/2012 5:30:21 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
2-Methylphenol	ND	0.50		mg/Kg	1	10/10/2012 5:30:21 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Naphthalene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (16-18')

Project: SWMU NO.1

Collection Date: 10/5/2012 11:10:00 AM

Lab ID: 1210372-009

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 5:30:21 AM
Nitrobenzene	ND	0.50		mg/Kg	1	10/10/2012 5:30:21 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 5:30:21 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 5:30:21 AM
Phenanthrene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Pyridine	ND	0.50		mg/Kg	1	10/10/2012 5:30:21 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 5:30:21 AM
Surr: 2,4,6-Tribromophenol	90.6	21.3-145		%REC	1	10/10/2012 5:30:21 AM
Surr: 2-Fluorobiphenyl	73.0	20-131		%REC	1	10/10/2012 5:30:21 AM
Surr: 2-Fluorophenol	85.9	11.9-130		%REC	1	10/10/2012 5:30:21 AM
Surr: 4-Terphenyl-d14	69.8	25.1-149		%REC	1	10/10/2012 5:30:21 AM
Surr: Nitrobenzene-d5	76.0	25.6-137		%REC	1	10/10/2012 5:30:21 AM
Surr: Phenol-d5	81.7	20.3-132		%REC	1	10/10/2012 5:30:21 AM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Toluene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Ethylbenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Xylenes, Total	ND	0.00222		mg/Kg	1	10/10/2012 3:08:16 PM
Methyl tert-butyl ether (MTBE)	0.0241	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,2,4-Trimethylbenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,3,5-Trimethylbenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,2-Dichloroethane (EDC)	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,2-Dibromoethane (EDB)	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Naphthalene	ND	0.00222		mg/Kg	1	10/10/2012 3:08:16 PM
1-Methylnaphthalene	ND	0.00443		mg/Kg	1	10/10/2012 3:08:16 PM
2-Methylnaphthalene	ND	0.00443		mg/Kg	1	10/10/2012 3:08:16 PM
Acetone	0.0364	0.0111		mg/Kg	1	10/10/2012 3:08:16 PM
Bromobenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Bromodichloromethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Bromoform	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Bromomethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
2-Butanone	ND	0.0111		mg/Kg	1	10/10/2012 3:08:16 PM
Carbon tetrachloride	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Chlorobenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Chloroethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (16-18')

Project: SWMU NO.1

Collection Date: 10/5/2012 11:10:00 AM

Lab ID: 1210372-009

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Chloromethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
2-Chlorotoluene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Carbon disulfide	ND	0.0111		mg/Kg	1	10/10/2012 3:08:16 PM
4-Chlorotoluene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
cis-1,2-DCE	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
cis-1,3-Dichloropropene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,2-Dibromo-3-chloropropane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Dibromochloromethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Dibromomethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,2-Dichlorobenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,3-Dichlorobenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,4-Dichlorobenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Dichlorodifluoromethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,1-Dichloroethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,1-Dichloroethene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,2-Dichloropropane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,3-Dichloropropane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
2,2-Dichloropropane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,1-Dichloropropene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Hexachlorobutadiene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Isopropylbenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
4-Isopropyltoluene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Methylene chloride	ND	0.00332		mg/Kg	1	10/10/2012 3:08:16 PM
n-Butylbenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
2-Hexanone	ND	0.0111		mg/Kg	1	10/10/2012 3:08:16 PM
n-Propylbenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
sec-Butylbenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Styrene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
4-Methyl-2-pentanone	ND	0.0111		mg/Kg	1	10/10/2012 3:08:16 PM
tert-Butylbenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,1,1,2-Tetrachloroethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,1,2,2-Tetrachloroethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Tetrachloroethene (PCE)	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
trans-1,2-DCE	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
trans-1,3-Dichloropropene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,2,3-Trichlorobenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,2,4-Trichlorobenzene	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,1,1-Trichloroethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
1,1,2-Trichloroethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Trichloroethene (TCE)	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Trichlorofluoromethane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 (16-18')

Project: SWMU NO.1

Collection Date: 10/5/2012 11:10:00 AM

Lab ID: 1210372-009

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Vinyl chloride	ND	0.00111		mg/Kg	1	10/10/2012 3:08:16 PM
Surr: 1,2-Dichloroethane-d4	94.8	70-130		%REC	1	10/10/2012 3:08:16 PM
Surr: 4-Bromofluorobenzene	91.7	70-130		%REC	1	10/10/2012 3:08:16 PM
Surr: Dibromofluoromethane	101	70-130		%REC	1	10/10/2012 3:08:16 PM
Surr: Toluene-d8	88.8	70-130		%REC	1	10/10/2012 3:08:16 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100512

Project: SWMU NO.1

Collection Date: 10/5/2012 5:40:00 PM

Lab ID: 1210372-010

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/8/2012 5:48:01 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/8/2012 5:48:01 PM
Surr: DNOP	120	79.5-166		%REC	1	10/8/2012 5:48:01 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/10/2012 5:46:36 PM
Surr: BFB	118	69.8-119		%REC	1	10/10/2012 5:46:36 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Fluoride	ND	0.10		mg/L	1	10/11/2012 3:10:22 AM
Chloride	ND	0.50		mg/L	1	10/8/2012 8:16:41 PM
Sulfate	ND	0.50		mg/L	1	10/8/2012 8:16:41 PM
EPA METHOD 200.7: METALS						Analyst: JLF
Barium	ND	0.0020		mg/L	1	10/10/2012 9:35:20 PM
Beryllium	ND	0.0020		mg/L	1	10/10/2012 9:35:20 PM
Cadmium	ND	0.0020		mg/L	1	10/10/2012 9:35:20 PM
Chromium	ND	0.0060		mg/L	1	10/10/2012 9:35:20 PM
Cobalt	ND	0.0060		mg/L	1	10/10/2012 9:35:20 PM
Iron	0.030	0.020		mg/L	1	10/10/2012 9:35:20 PM
Manganese	ND	0.0020		mg/L	1	10/10/2012 9:35:20 PM
Nickel	ND	0.010		mg/L	1	10/10/2012 9:35:20 PM
Silver	ND	0.0050		mg/L	1	10/10/2012 9:35:20 PM
Vanadium	ND	0.050		mg/L	1	10/10/2012 9:35:20 PM
Zinc	ND	0.010		mg/L	1	10/12/2012 8:02:27 AM
EPA 200.8: METALS						Analyst: DBD
Antimony	ND	0.0010		mg/L	1	10/17/2012 11:21:13 AM
Arsenic	ND	0.0010		mg/L	1	10/17/2012 11:21:13 AM
Lead	ND	0.0010		mg/L	1	10/17/2012 11:21:13 AM
Selenium	ND	0.0010		mg/L	1	10/17/2012 11:21:13 AM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	ND	0.00020		mg/L	1	10/12/2012 4:49:12 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Acenaphthylene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Aniline	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Anthracene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Azobenzene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Benz(a)anthracene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Benzo(a)pyrene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	10/11/2012 10:38:52 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100512

Project: SWMU NO.1

Collection Date: 10/5/2012 5:40:00 PM

Lab ID: 1210372-010

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(k)fluoranthene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Benzoic acid	ND	20		µg/L	1	10/11/2012 10:38:52 PM
Benzyl alcohol	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	10/11/2012 10:38:52 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Butyl benzyl phthalate	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Carbazole	ND	10		µg/L	1	10/11/2012 10:38:52 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	10/11/2012 10:38:52 PM
4-Chloroaniline	ND	10		µg/L	1	10/11/2012 10:38:52 PM
2-Chloronaphthalene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
2-Chlorophenol	ND	10		µg/L	1	10/11/2012 10:38:52 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Chrysene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Di-n-butyl phthalate	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Di-n-octyl phthalate	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Dibenzofuran	ND	10		µg/L	1	10/11/2012 10:38:52 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Diethyl phthalate	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Dimethyl phthalate	ND	10		µg/L	1	10/11/2012 10:38:52 PM
2,4-Dichlorophenol	ND	20		µg/L	1	10/11/2012 10:38:52 PM
2,4-Dimethylphenol	ND	10		µg/L	1	10/11/2012 10:38:52 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	10/11/2012 10:38:52 PM
2,4-Dinitrophenol	ND	20		µg/L	1	10/11/2012 10:38:52 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Fluoranthene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Fluorene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Hexachlorobenzene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Hexachlorobutadiene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Hexachloroethane	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Isophorone	ND	10		µg/L	1	10/11/2012 10:38:52 PM
1-Methylnaphthalene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
2-Methylnaphthalene	ND	10		µg/L	1	10/11/2012 10:38:52 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100512

Project: SWMU NO.1

Collection Date: 10/5/2012 5:40:00 PM

Lab ID: 1210372-010

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylphenol	ND	10		µg/L	1	10/11/2012 10:38:52 PM
3+4-Methylphenol	ND	10		µg/L	1	10/11/2012 10:38:52 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/11/2012 10:38:52 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	10/11/2012 10:38:52 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Naphthalene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
2-Nitroaniline	ND	10		µg/L	1	10/11/2012 10:38:52 PM
3-Nitroaniline	ND	10		µg/L	1	10/11/2012 10:38:52 PM
4-Nitroaniline	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Nitrobenzene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
2-Nitrophenol	ND	10		µg/L	1	10/11/2012 10:38:52 PM
4-Nitrophenol	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Pentachlorophenol	ND	20		µg/L	1	10/11/2012 10:38:52 PM
Phenanthrene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Phenol	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Pyrene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Pyridine	ND	10		µg/L	1	10/11/2012 10:38:52 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/11/2012 10:38:52 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	10/11/2012 10:38:52 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	10/11/2012 10:38:52 PM
Surr: 2,4,6-Tribromophenol	81.3	44.2-126		%REC	1	10/11/2012 10:38:52 PM
Surr: 2-Fluorobiphenyl	75.4	37-114		%REC	1	10/11/2012 10:38:52 PM
Surr: 2-Fluorophenol	61.0	23.4-98		%REC	1	10/11/2012 10:38:52 PM
Surr: 4-Terphenyl-d14	70.8	41.3-116		%REC	1	10/11/2012 10:38:52 PM
Surr: Nitrobenzene-d5	82.9	39.5-118		%REC	1	10/11/2012 10:38:52 PM
Surr: Phenol-d5	49.6	20.9-95.9		%REC	1	10/11/2012 10:38:52 PM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Toluene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Ethylbenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Naphthalene	ND	2.0		µg/L	1	10/9/2012 2:49:27 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/9/2012 2:49:27 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/9/2012 2:49:27 PM
Acetone	ND	10		µg/L	1	10/9/2012 2:49:27 PM
Bromobenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100512

Project: SWMU NO.1

Collection Date: 10/5/2012 5:40:00 PM

Lab ID: 1210372-010

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Bromoform	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Bromomethane	ND	3.0		µg/L	1	10/9/2012 2:49:27 PM
2-Butanone	ND	10		µg/L	1	10/9/2012 2:49:27 PM
Carbon disulfide	ND	10		µg/L	1	10/9/2012 2:49:27 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Chlorobenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Chloroethane	ND	2.0		µg/L	1	10/9/2012 2:49:27 PM
Chloroform	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Chloromethane	ND	3.0		µg/L	1	10/9/2012 2:49:27 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/9/2012 2:49:27 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Dibromomethane	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/9/2012 2:49:27 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
2-Hexanone	ND	10		µg/L	1	10/9/2012 2:49:27 PM
Isopropylbenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/9/2012 2:49:27 PM
Methylene Chloride	ND	3.0		µg/L	1	10/9/2012 2:49:27 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/9/2012 2:49:27 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Styrene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/9/2012 2:49:27 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100512

Project: SWMU NO.1

Collection Date: 10/5/2012 5:40:00 PM

Lab ID: 1210372-010

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/9/2012 2:49:27 PM
Vinyl chloride	ND	1.0		µg/L	1	10/9/2012 2:49:27 PM
Xylenes, Total	ND	1.5		µg/L	1	10/9/2012 2:49:27 PM
Surr: 1,2-Dichloroethane-d4	93.2	70-130		%REC	1	10/9/2012 2:49:27 PM
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	10/9/2012 2:49:27 PM
Surr: Dibromofluoromethane	93.7	70-130		%REC	1	10/9/2012 2:49:27 PM
Surr: Toluene-d8	96.2	70-130		%REC	1	10/9/2012 2:49:27 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Trip Blank

Project: SWMU NO.1

Collection Date:

Lab ID: 1210372-011

Matrix: TRIP BLANK

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Toluene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Ethylbenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Naphthalene	ND	2.0		µg/L	1	10/9/2012 4:42:30 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/9/2012 4:42:30 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/9/2012 4:42:30 PM
Acetone	ND	10		µg/L	1	10/9/2012 4:42:30 PM
Bromobenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Bromoform	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Bromomethane	ND	3.0		µg/L	1	10/9/2012 4:42:30 PM
2-Butanone	ND	10		µg/L	1	10/9/2012 4:42:30 PM
Carbon disulfide	ND	10		µg/L	1	10/9/2012 4:42:30 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Chlorobenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Chloroethane	ND	2.0		µg/L	1	10/9/2012 4:42:30 PM
Chloroform	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Chloromethane	ND	3.0		µg/L	1	10/9/2012 4:42:30 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/9/2012 4:42:30 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Dibromomethane	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/9/2012 4:42:30 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
2-Hexanone	ND	10		µg/L	1	10/9/2012 4:42:30 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Trip Blank

Project: SWMU NO.1

Collection Date:

Lab ID: 1210372-011

Matrix: TRIP BLANK

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Isopropylbenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/9/2012 4:42:30 PM
Methylene Chloride	ND	3.0		µg/L	1	10/9/2012 4:42:30 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/9/2012 4:42:30 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Styrene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/9/2012 4:42:30 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/9/2012 4:42:30 PM
Vinyl chloride	ND	1.0		µg/L	1	10/9/2012 4:42:30 PM
Xylenes, Total	ND	1.5		µg/L	1	10/9/2012 4:42:30 PM
Surr: 1,2-Dichloroethane-d4	93.7	70-130		%REC	1	10/9/2012 4:42:30 PM
Surr: 4-Bromofluorobenzene	97.4	70-130		%REC	1	10/9/2012 4:42:30 PM
Surr: Dibromofluoromethane	91.8	70-130		%REC	1	10/9/2012 4:42:30 PM
Surr: Toluene-d8	95.1	70-130		%REC	1	10/9/2012 4:42:30 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 GW

Project: SWMU NO.1

Collection Date: 10/5/2012 7:45:00 AM

Lab ID: 1210372-012

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	4.8	1.0	*	mg/L	10	10/17/2012 9:32:31 PM
Chloride	1900	50		mg/L	100	10/11/2012 10:02:24 PM
Sulfate	180	2.5		mg/L	5	10/8/2012 8:29:06 PM
EPA METHOD 200.7: METALS						Analyst: JLF
Barium	1.2	0.010		mg/L	5	10/10/2012 6:35:24 PM
Beryllium	ND	0.0020		mg/L	1	10/10/2012 6:31:32 PM
Cadmium	ND	0.0020		mg/L	1	10/10/2012 6:31:32 PM
Chromium	ND	0.0060		mg/L	1	10/10/2012 6:31:32 PM
Cobalt	0.011	0.0060		mg/L	1	10/10/2012 6:31:32 PM
Iron	0.32	0.020	*	mg/L	1	10/10/2012 6:31:32 PM
Manganese	0.99	0.0020	*	mg/L	1	10/10/2012 6:31:32 PM
Nickel	0.13	0.010	*	mg/L	1	10/10/2012 6:31:32 PM
Silver	ND	0.0050		mg/L	1	10/10/2012 6:31:32 PM
Vanadium	ND	0.050		mg/L	1	10/10/2012 6:31:32 PM
Zinc	0.047	0.010		mg/L	1	10/10/2012 6:31:32 PM
EPA 200.8: METALS						Analyst: DBD
Antimony	ND	0.0025		mg/L	2.5	10/15/2012 5:07:00 PM
Arsenic	0.016	0.0025	*	mg/L	2.5	10/15/2012 5:07:00 PM
Lead	ND	0.0025		mg/L	2.5	10/15/2012 5:07:00 PM
Selenium	0.0073	0.0025		mg/L	2.5	10/15/2012 5:07:00 PM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	ND	0.00020		mg/L	1	10/12/2012 4:51:01 PM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 GW

Project: SWMU NO.1

Collection Date: 10/5/2012 3:20:00 PM

Lab ID: 1210372-013

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/8/2012 6:13:37 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/8/2012 6:13:37 PM
Surr: DNOP	123	79.5-166		%REC	1	10/8/2012 6:13:37 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.26	0.10		mg/L	2	10/10/2012 6:16:46 PM
Surr: BFB	121	69.8-119	S	%REC	2	10/10/2012 6:16:46 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Acenaphthylene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Aniline	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Anthracene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Azobenzene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Benz(a)anthracene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Benzo(a)pyrene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Benzoic acid	ND	20		µg/L	1	10/11/2012 11:08:06 PM
Benzyl alcohol	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	10/11/2012 11:08:06 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Butyl benzyl phthalate	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Carbazole	ND	10		µg/L	1	10/11/2012 11:08:06 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	10/11/2012 11:08:06 PM
4-Chloroaniline	ND	10		µg/L	1	10/11/2012 11:08:06 PM
2-Chloronaphthalene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
2-Chlorophenol	ND	10		µg/L	1	10/11/2012 11:08:06 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Chrysene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Di-n-butyl phthalate	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Di-n-octyl phthalate	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Dibenzofuran	ND	10		µg/L	1	10/11/2012 11:08:06 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Diethyl phthalate	ND	10		µg/L	1	10/11/2012 11:08:06 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 GW

Project: SWMU NO.1

Collection Date: 10/5/2012 3:20:00 PM

Lab ID: 1210372-013

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Dimethyl phthalate	13	10		µg/L	1	10/11/2012 11:08:06 PM
2,4-Dichlorophenol	ND	20		µg/L	1	10/11/2012 11:08:06 PM
2,4-Dimethylphenol	ND	10		µg/L	1	10/11/2012 11:08:06 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	10/11/2012 11:08:06 PM
2,4-Dinitrophenol	ND	20		µg/L	1	10/11/2012 11:08:06 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Fluoranthene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Fluorene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Hexachlorobenzene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Hexachlorobutadiene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Hexachloroethane	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Isophorone	ND	10		µg/L	1	10/11/2012 11:08:06 PM
1-Methylnaphthalene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
2-Methylnaphthalene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
2-Methylphenol	ND	10		µg/L	1	10/11/2012 11:08:06 PM
3+4-Methylphenol	ND	10		µg/L	1	10/11/2012 11:08:06 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/11/2012 11:08:06 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	10/11/2012 11:08:06 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Naphthalene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
2-Nitroaniline	ND	10		µg/L	1	10/11/2012 11:08:06 PM
3-Nitroaniline	ND	10		µg/L	1	10/11/2012 11:08:06 PM
4-Nitroaniline	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Nitrobenzene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
2-Nitrophenol	ND	10		µg/L	1	10/11/2012 11:08:06 PM
4-Nitrophenol	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Pentachlorophenol	ND	20		µg/L	1	10/11/2012 11:08:06 PM
Phenanthrene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Phenol	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Pyrene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Pyridine	ND	10		µg/L	1	10/11/2012 11:08:06 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/11/2012 11:08:06 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	10/11/2012 11:08:06 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	10/11/2012 11:08:06 PM
Surr: 2,4,6-Tribromophenol	78.9	44.2-126		%REC	1	10/11/2012 11:08:06 PM
Surr: 2-Fluorobiphenyl	65.7	37-114		%REC	1	10/11/2012 11:08:06 PM
Surr: 2-Fluorophenol	46.7	23.4-98		%REC	1	10/11/2012 11:08:06 PM
Surr: 4-Terphenyl-d14	63.0	41.3-116		%REC	1	10/11/2012 11:08:06 PM
Surr: Nitrobenzene-d5	59.8	39.5-118		%REC	1	10/11/2012 11:08:06 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 GW

Project: SWMU NO.1

Collection Date: 10/5/2012 3:20:00 PM

Lab ID: 1210372-013

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Surr: Phenol-d5	37.7	20.9-95.9		%REC	1	10/11/2012 11:08:06 PM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	4.5	2.0		µg/L	2	10/9/2012 5:10:44 PM
Toluene	7.2	2.0		µg/L	2	10/9/2012 5:10:44 PM
Ethylbenzene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,2-Dichloroethane (EDC)	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
Naphthalene	ND	4.0		µg/L	2	10/9/2012 5:10:44 PM
1-Methylnaphthalene	ND	8.0		µg/L	2	10/9/2012 5:10:44 PM
2-Methylnaphthalene	ND	8.0		µg/L	2	10/9/2012 5:10:44 PM
Acetone	49	20		µg/L	2	10/9/2012 5:10:44 PM
Bromobenzene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
Bromodichloromethane	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
Bromoform	2.7	2.0		µg/L	2	10/9/2012 5:10:44 PM
Bromomethane	ND	6.0		µg/L	2	10/9/2012 5:10:44 PM
2-Butanone	20	20		µg/L	2	10/9/2012 5:10:44 PM
Carbon disulfide	ND	20		µg/L	2	10/9/2012 5:10:44 PM
Carbon Tetrachloride	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
Chlorobenzene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
Chloroethane	ND	4.0		µg/L	2	10/9/2012 5:10:44 PM
Chloroform	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
Chloromethane	ND	6.0		µg/L	2	10/9/2012 5:10:44 PM
2-Chlorotoluene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
4-Chlorotoluene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
cis-1,2-DCE	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	10/9/2012 5:10:44 PM
Dibromochloromethane	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
Dibromomethane	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
Dichlorodifluoromethane	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,1-Dichloroethane	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,1-Dichloroethene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,2-Dichloropropane	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,3-Dichloropropane	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
2,2-Dichloropropane	ND	4.0		µg/L	2	10/9/2012 5:10:44 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-5 GW

Project: SWMU NO.1

Collection Date: 10/5/2012 3:20:00 PM

Lab ID: 1210372-013

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
1,1-Dichloropropene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
Hexachlorobutadiene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
2-Hexanone	ND	20		µg/L	2	10/9/2012 5:10:44 PM
Isopropylbenzene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
4-Isopropyltoluene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
4-Methyl-2-pentanone	ND	20		µg/L	2	10/9/2012 5:10:44 PM
Methylene Chloride	ND	6.0		µg/L	2	10/9/2012 5:10:44 PM
n-Butylbenzene	ND	6.0		µg/L	2	10/9/2012 5:10:44 PM
n-Propylbenzene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
sec-Butylbenzene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
Styrene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
tert-Butylbenzene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	10/9/2012 5:10:44 PM
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
trans-1,2-DCE	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
Trichloroethene (TCE)	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
Trichlorofluoromethane	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
1,2,3-Trichloropropane	ND	4.0		µg/L	2	10/9/2012 5:10:44 PM
Vinyl chloride	ND	2.0		µg/L	2	10/9/2012 5:10:44 PM
Xylenes, Total	ND	3.0		µg/L	2	10/9/2012 5:10:44 PM
Surr: 1,2-Dichloroethane-d4	96.6	70-130		%REC	2	10/9/2012 5:10:44 PM
Surr: 4-Bromofluorobenzene	96.3	70-130		%REC	2	10/9/2012 5:10:44 PM
Surr: Dibromofluoromethane	97.8	70-130		%REC	2	10/9/2012 5:10:44 PM
Surr: Toluene-d8	97.0	70-130		%REC	2	10/9/2012 5:10:44 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 GW

Project: SWMU NO.1

Collection Date: 10/5/2012 4:05:00 PM

Lab ID: 1210372-014

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/8/2012 6:39:15 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/8/2012 6:39:15 PM
Surr: DNOP	122	79.5-166		%REC	1	10/8/2012 6:39:15 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	1.0	0.050		mg/L	1	10/10/2012 6:46:57 PM
Surr: BFB	165	69.8-119	S	%REC	1	10/10/2012 6:46:57 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Fluoride	0.78	0.10		mg/L	1	10/11/2012 3:47:36 AM
Chloride	660	25		mg/L	50	10/11/2012 10:14:48 PM
Sulfate	52	2.5		mg/L	5	10/8/2012 8:53:56 PM
EPA METHOD 200.7: METALS						Analyst: JLF
Barium	4.7	0.020	*	mg/L	5	10/10/2012 6:57:30 PM
Beryllium	0.0065	0.0040	*	mg/L	1	10/10/2012 6:54:11 PM
Cadmium	ND	0.0040		mg/L	1	10/10/2012 6:54:11 PM
Chromium	0.058	0.012		mg/L	1	10/12/2012 8:21:18 AM
Cobalt	0.053	0.012		mg/L	1	10/10/2012 6:54:11 PM
Iron	39	2.0	*	mg/L	50	10/12/2012 8:24:41 AM
Manganese	7.9	0.020	*	mg/L	5	10/10/2012 6:57:30 PM
Nickel	0.11	0.020	*	mg/L	1	10/10/2012 6:54:11 PM
Silver	ND	0.010		mg/L	1	10/10/2012 6:54:11 PM
Vanadium	ND	0.10		mg/L	1	10/10/2012 6:54:11 PM
Zinc	0.11	0.020		mg/L	1	10/12/2012 8:21:18 AM
EPA 200.8: METALS						Analyst: DBD
Antimony	ND	0.0050		mg/L	2.5	10/15/2012 5:10:56 PM
Arsenic	0.032	0.0050	*	mg/L	2.5	10/15/2012 5:10:56 PM
Lead	0.078	0.0050	*	mg/L	2.5	10/15/2012 5:10:56 PM
Selenium	0.0075	0.0050		mg/L	2.5	10/15/2012 5:10:56 PM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	ND	0.00020		mg/L	1	10/12/2012 4:52:50 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Acenaphthylene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Aniline	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Anthracene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Azobenzene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Benz(a)anthracene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Benzo(a)pyrene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	10/11/2012 11:37:31 PM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 GW

Project: SWMU NO.1

Collection Date: 10/5/2012 4:05:00 PM

Lab ID: 1210372-014

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(k)fluoranthene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Benzoic acid	ND	20		µg/L	1	10/11/2012 11:37:31 PM
Benzyl alcohol	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	10/11/2012 11:37:31 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Butyl benzyl phthalate	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Carbazole	ND	10		µg/L	1	10/11/2012 11:37:31 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	10/11/2012 11:37:31 PM
4-Chloroaniline	ND	10		µg/L	1	10/11/2012 11:37:31 PM
2-Chloronaphthalene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
2-Chlorophenol	ND	10		µg/L	1	10/11/2012 11:37:31 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Chrysene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Di-n-butyl phthalate	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Di-n-octyl phthalate	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Dibenzofuran	ND	10		µg/L	1	10/11/2012 11:37:31 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Diethyl phthalate	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Dimethyl phthalate	ND	10		µg/L	1	10/11/2012 11:37:31 PM
2,4-Dichlorophenol	ND	20		µg/L	1	10/11/2012 11:37:31 PM
2,4-Dimethylphenol	ND	10		µg/L	1	10/11/2012 11:37:31 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	10/11/2012 11:37:31 PM
2,4-Dinitrophenol	ND	20		µg/L	1	10/11/2012 11:37:31 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Fluoranthene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Fluorene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Hexachlorobenzene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Hexachlorobutadiene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Hexachloroethane	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Isophorone	ND	10		µg/L	1	10/11/2012 11:37:31 PM
1-Methylnaphthalene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
2-Methylnaphthalene	ND	10		µg/L	1	10/11/2012 11:37:31 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 GW

Project: SWMU NO.1

Collection Date: 10/5/2012 4:05:00 PM

Lab ID: 1210372-014

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylphenol	ND	10		µg/L	1	10/11/2012 11:37:31 PM
3+4-Methylphenol	ND	10		µg/L	1	10/11/2012 11:37:31 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/11/2012 11:37:31 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	10/11/2012 11:37:31 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Naphthalene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
2-Nitroaniline	ND	10		µg/L	1	10/11/2012 11:37:31 PM
3-Nitroaniline	ND	10		µg/L	1	10/11/2012 11:37:31 PM
4-Nitroaniline	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Nitrobenzene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
2-Nitrophenol	ND	10		µg/L	1	10/11/2012 11:37:31 PM
4-Nitrophenol	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Pentachlorophenol	ND	20		µg/L	1	10/11/2012 11:37:31 PM
Phenanthrene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Phenol	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Pyrene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Pyridine	ND	10		µg/L	1	10/11/2012 11:37:31 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/11/2012 11:37:31 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	10/11/2012 11:37:31 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	10/11/2012 11:37:31 PM
Surr: 2,4,6-Tribromophenol	77.6	44.2-126		%REC	1	10/11/2012 11:37:31 PM
Surr: 2-Fluorobiphenyl	75.6	37-114		%REC	1	10/11/2012 11:37:31 PM
Surr: 2-Fluorophenol	62.3	23.4-98		%REC	1	10/11/2012 11:37:31 PM
Surr: 4-Terphenyl-d14	61.0	41.3-116		%REC	1	10/11/2012 11:37:31 PM
Surr: Nitrobenzene-d5	78.2	39.5-118		%REC	1	10/11/2012 11:37:31 PM
Surr: Phenol-d5	45.5	20.9-95.9		%REC	1	10/11/2012 11:37:31 PM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	2.3	1.0		µg/L	1	10/9/2012 5:38:50 PM
Toluene	2.3	1.0		µg/L	1	10/9/2012 5:38:50 PM
Ethylbenzene	2.8	1.0		µg/L	1	10/9/2012 5:38:50 PM
Methyl tert-butyl ether (MTBE)	310	10		µg/L	10	10/10/2012 3:10:30 PM
1,2,4-Trimethylbenzene	6.9	1.0		µg/L	1	10/9/2012 5:38:50 PM
1,3,5-Trimethylbenzene	1.5	1.0		µg/L	1	10/9/2012 5:38:50 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
Naphthalene	2.3	2.0		µg/L	1	10/9/2012 5:38:50 PM
1-Methylnaphthalene	9.8	4.0		µg/L	1	10/9/2012 5:38:50 PM
2-Methylnaphthalene	10	4.0		µg/L	1	10/9/2012 5:38:50 PM
Acetone	58	10		µg/L	1	10/9/2012 5:38:50 PM
Bromobenzene	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 GW

Project: SWMU NO.1

Collection Date: 10/5/2012 4:05:00 PM

Lab ID: 1210372-014

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Bromoform	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
Bromomethane	ND	3.0		µg/L	1	10/9/2012 5:38:50 PM
2-Butanone	ND	10		µg/L	1	10/9/2012 5:38:50 PM
Carbon disulfide	ND	10		µg/L	1	10/9/2012 5:38:50 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
Chlorobenzene	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
Chloroethane	ND	2.0		µg/L	1	10/9/2012 5:38:50 PM
Chloroform	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
Chloromethane	ND	3.0		µg/L	1	10/9/2012 5:38:50 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/9/2012 5:38:50 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
Dibromomethane	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/9/2012 5:38:50 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
2-Hexanone	ND	10		µg/L	1	10/9/2012 5:38:50 PM
Isopropylbenzene	1.3	1.0		µg/L	1	10/9/2012 5:38:50 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/9/2012 5:38:50 PM
Methylene Chloride	ND	3.0		µg/L	1	10/9/2012 5:38:50 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/9/2012 5:38:50 PM
n-Propylbenzene	1.7	1.0		µg/L	1	10/9/2012 5:38:50 PM
sec-Butylbenzene	1.4	1.0		µg/L	1	10/9/2012 5:38:50 PM
Styrene	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/9/2012 5:38:50 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-8 GW

Project: SWMU NO.1

Collection Date: 10/5/2012 4:05:00 PM

Lab ID: 1210372-014

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/9/2012 5:38:50 PM
Vinyl chloride	ND	1.0		µg/L	1	10/9/2012 5:38:50 PM
Xylenes, Total	5.9	1.5		µg/L	1	10/9/2012 5:38:50 PM
Surr: 1,2-Dichloroethane-d4	101	70-130		%REC	1	10/9/2012 5:38:50 PM
Surr: 4-Bromofluorobenzene	95.5	70-130		%REC	1	10/9/2012 5:38:50 PM
Surr: Dibromofluoromethane	100	70-130		%REC	1	10/9/2012 5:38:50 PM
Surr: Toluene-d8	93.2	70-130		%REC	1	10/9/2012 5:38:50 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-7 (16-18')

Project: SWMU NO.1

Collection Date: 10/4/2012 2:40:00 PM

Lab ID: 1210372-015

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/9/2012 11:15:13 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/9/2012 11:15:13 AM
Surr: DNOP	98.6	77.6-140		%REC	1	10/9/2012 11:15:13 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/9/2012 1:50:59 AM
Surr: BFB	99.5	84-116		%REC	1	10/9/2012 1:50:59 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/11/2012 3:34:04 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 4:48:45 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 4:48:45 PM
Barium	330	5.0		mg/Kg	50	10/11/2012 4:51:11 PM
Beryllium	1.1	0.75		mg/Kg	5	10/11/2012 4:48:45 PM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 4:48:45 PM
Chromium	15	1.5		mg/Kg	5	10/11/2012 4:48:45 PM
Cobalt	6.4	1.5		mg/Kg	5	10/11/2012 4:48:45 PM
Iron	22000	500		mg/Kg	500	10/11/2012 4:53:35 PM
Lead	1.7	1.2		mg/Kg	5	10/11/2012 4:48:45 PM
Manganese	510	5.0		mg/Kg	50	10/11/2012 4:51:11 PM
Nickel	13	2.5		mg/Kg	5	10/11/2012 4:48:45 PM
Selenium	ND	12		mg/Kg	5	10/11/2012 4:48:45 PM
Silver	ND	1.2		mg/Kg	5	10/11/2012 4:48:45 PM
Vanadium	28	12		mg/Kg	5	10/11/2012 4:48:45 PM
Zinc	25	12		mg/Kg	5	10/11/2012 4:48:45 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Benzoic acid	ND	0.50		mg/Kg	1	10/10/2012 5:59:23 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-7 (16-18')

Project: SWMU NO.1

Collection Date: 10/4/2012 2:40:00 PM

Lab ID: 1210372-015

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/10/2012 5:59:23 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 5:59:23 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/10/2012 5:59:23 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 5:59:23 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/10/2012 5:59:23 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 5:59:23 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 5:59:23 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 5:59:23 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 5:59:23 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 5:59:23 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 5:59:23 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 5:59:23 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 5:59:23 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Fluorene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Isophorone	ND	0.50		mg/Kg	1	10/10/2012 5:59:23 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
2-Methylphenol	ND	0.50		mg/Kg	1	10/10/2012 5:59:23 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Naphthalene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-7 (16-18')

Project: SWMU NO.1

Collection Date: 10/4/2012 2:40:00 PM

Lab ID: 1210372-015

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 5:59:23 AM
Nitrobenzene	ND	0.50		mg/Kg	1	10/10/2012 5:59:23 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 5:59:23 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 5:59:23 AM
Phenanthrene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Pyridine	ND	0.50		mg/Kg	1	10/10/2012 5:59:23 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 5:59:23 AM
Surr: 2,4,6-Tribromophenol	73.2	21.3-145		%REC	1	10/10/2012 5:59:23 AM
Surr: 2-Fluorobiphenyl	61.1	20-131		%REC	1	10/10/2012 5:59:23 AM
Surr: 2-Fluorophenol	59.3	11.9-130		%REC	1	10/10/2012 5:59:23 AM
Surr: 4-Terphenyl-d14	63.3	25.1-149		%REC	1	10/10/2012 5:59:23 AM
Surr: Nitrobenzene-d5	57.8	25.6-137		%REC	1	10/10/2012 5:59:23 AM
Surr: Phenol-d5	65.2	20.3-132		%REC	1	10/10/2012 5:59:23 AM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	0.00136	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
Toluene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
Ethylbenzene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
Xylenes, Total	ND	0.00196		mg/Kg	1	10/9/2012 4:02:30 PM
Methyl tert-butyl ether (MTBE)	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
1,2,4-Trimethylbenzene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
1,3,5-Trimethylbenzene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
1,2-Dichloroethane (EDC)	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
1,2-Dibromoethane (EDB)	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
Naphthalene	ND	0.00196		mg/Kg	1	10/9/2012 4:02:30 PM
1-Methylnaphthalene	ND	0.00393		mg/Kg	1	10/9/2012 4:02:30 PM
2-Methylnaphthalene	ND	0.00393		mg/Kg	1	10/9/2012 4:02:30 PM
Acetone	0.00987	0.00982		mg/Kg	1	10/9/2012 4:02:30 PM
Bromobenzene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
Bromodichloromethane	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
Bromoform	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
Bromomethane	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
2-Butanone	ND	0.00982		mg/Kg	1	10/9/2012 4:02:30 PM
Carbon tetrachloride	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
Chlorobenzene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
Chloroethane	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-7 (16-18')

Project: SWMU NO.1

Collection Date: 10/4/2012 2:40:00 PM

Lab ID: 1210372-015

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
Chloromethane	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
2-Chlorotoluene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
Carbon disulfide	ND	0.00982		mg/Kg	1	10/9/2012 4:02:30 PM
4-Chlorotoluene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
cis-1,2-DCE	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
cis-1,3-Dichloropropene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
1,2-Dibromo-3-chloropropane	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
Dibromochloromethane	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
Dibromomethane	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
1,2-Dichlorobenzene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
1,3-Dichlorobenzene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
1,4-Dichlorobenzene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
Dichlorodifluoromethane	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
1,1-Dichloroethane	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
1,1-Dichloroethene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
1,2-Dichloropropane	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
1,3-Dichloropropane	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
2,2-Dichloropropane	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
1,1-Dichloropropene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
Hexachlorobutadiene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
Isopropylbenzene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
4-Isopropyltoluene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
Methylene chloride	ND	0.00295		mg/Kg	1	10/9/2012 4:02:30 PM
n-Butylbenzene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
2-Hexanone	ND	0.00982		mg/Kg	1	10/9/2012 4:02:30 PM
n-Propylbenzene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
sec-Butylbenzene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
Styrene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
4-Methyl-2-pentanone	ND	0.00982		mg/Kg	1	10/9/2012 4:02:30 PM
tert-Butylbenzene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
1,1,1,2-Tetrachloroethane	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
1,1,2,2-Tetrachloroethane	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
Tetrachloroethene (PCE)	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
trans-1,2-DCE	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
trans-1,3-Dichloropropene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
1,2,3-Trichlorobenzene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
1,2,4-Trichlorobenzene	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
1,1,1-Trichloroethane	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
1,1,2-Trichloroethane	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
Trichloroethene (TCE)	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
Trichlorofluoromethane	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-7 (16-18')

Project: SWMU NO.1

Collection Date: 10/4/2012 2:40:00 PM

Lab ID: 1210372-015

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
Vinyl chloride	ND	0.000982		mg/Kg	1	10/9/2012 4:02:30 PM
Surr: 1,2-Dichloroethane-d4	89.0	70-130		%REC	1	10/9/2012 4:02:30 PM
Surr: 4-Bromofluorobenzene	94.4	70-130		%REC	1	10/9/2012 4:02:30 PM
Surr: Dibromofluoromethane	94.0	70-130		%REC	1	10/9/2012 4:02:30 PM
Surr: Toluene-d8	99.8	70-130		%REC	1	10/9/2012 4:02:30 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (10-11')

Project: SWMU NO.1

Collection Date: 10/4/2012 11:45:00 AM

Lab ID: 1210372-016

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/9/2012 11:36:49 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/9/2012 11:36:49 AM
Surr: DNOP	94.1	77.6-140		%REC	1	10/9/2012 11:36:49 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/9/2012 2:19:49 AM
Surr: BFB	101	84-116		%REC	1	10/9/2012 2:19:49 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/11/2012 3:39:21 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 4:56:13 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 4:56:13 PM
Barium	380	5.0		mg/Kg	50	10/11/2012 4:58:37 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 4:56:13 PM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 4:56:13 PM
Chromium	7.2	1.5		mg/Kg	5	10/11/2012 4:56:13 PM
Cobalt	3.8	1.5		mg/Kg	5	10/11/2012 4:56:13 PM
Iron	11000	500		mg/Kg	500	10/11/2012 5:01:02 PM
Lead	3.6	1.2		mg/Kg	5	10/11/2012 4:56:13 PM
Manganese	750	5.0		mg/Kg	50	10/11/2012 4:58:37 PM
Nickel	5.5	2.5		mg/Kg	5	10/11/2012 4:56:13 PM
Selenium	ND	12		mg/Kg	5	10/11/2012 4:56:13 PM
Silver	ND	1.2		mg/Kg	5	10/11/2012 4:56:13 PM
Vanadium	16	12		mg/Kg	5	10/11/2012 4:56:13 PM
Zinc	13	12		mg/Kg	5	10/11/2012 4:56:13 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Benzoic acid	ND	0.50		mg/Kg	1	10/10/2012 6:28:22 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (10-11')

Project: SWMU NO.1

Collection Date: 10/4/2012 11:45:00 AM

Lab ID: 1210372-016

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/10/2012 6:28:22 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 6:28:22 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/10/2012 6:28:22 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 6:28:22 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/10/2012 6:28:22 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 6:28:22 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 6:28:22 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 6:28:22 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 6:28:22 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 6:28:22 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 6:28:22 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 6:28:22 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 6:28:22 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Fluorene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Isophorone	ND	0.50		mg/Kg	1	10/10/2012 6:28:22 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
2-Methylphenol	ND	0.50		mg/Kg	1	10/10/2012 6:28:22 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Naphthalene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (10-11')

Project: SWMU NO.1

Collection Date: 10/4/2012 11:45:00 AM

Lab ID: 1210372-016

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 6:28:22 AM
Nitrobenzene	ND	0.50		mg/Kg	1	10/10/2012 6:28:22 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 6:28:22 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 6:28:22 AM
Phenanthrene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Pyridine	ND	0.50		mg/Kg	1	10/10/2012 6:28:22 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 6:28:22 AM
Surr: 2,4,6-Tribromophenol	64.9	21.3-145		%REC	1	10/10/2012 6:28:22 AM
Surr: 2-Fluorobiphenyl	60.0	20-131		%REC	1	10/10/2012 6:28:22 AM
Surr: 2-Fluorophenol	60.5	11.9-130		%REC	1	10/10/2012 6:28:22 AM
Surr: 4-Terphenyl-d14	55.8	25.1-149		%REC	1	10/10/2012 6:28:22 AM
Surr: Nitrobenzene-d5	61.6	25.6-137		%REC	1	10/10/2012 6:28:22 AM
Surr: Phenol-d5	61.6	20.3-132		%REC	1	10/10/2012 6:28:22 AM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
Toluene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
Ethylbenzene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
Xylenes, Total	ND	0.00213		mg/Kg	1	10/9/2012 4:33:16 PM
Methyl tert-butyl ether (MTBE)	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
1,2,4-Trimethylbenzene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
1,3,5-Trimethylbenzene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
1,2-Dichloroethane (EDC)	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
1,2-Dibromoethane (EDB)	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
Naphthalene	ND	0.00213		mg/Kg	1	10/9/2012 4:33:16 PM
1-Methylnaphthalene	ND	0.00426		mg/Kg	1	10/9/2012 4:33:16 PM
2-Methylnaphthalene	ND	0.00426		mg/Kg	1	10/9/2012 4:33:16 PM
Acetone	0.0539	0.0107		mg/Kg	1	10/9/2012 4:33:16 PM
Bromobenzene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
Bromodichloromethane	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
Bromoform	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
Bromomethane	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
2-Butanone	ND	0.0107		mg/Kg	1	10/9/2012 4:33:16 PM
Carbon tetrachloride	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
Chlorobenzene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
Chloroethane	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (10-11')

Project: SWMU NO.1

Collection Date: 10/4/2012 11:45:00 AM

Lab ID: 1210372-016

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
Chloromethane	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
2-Chlorotoluene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
Carbon disulfide	ND	0.0107		mg/Kg	1	10/9/2012 4:33:16 PM
4-Chlorotoluene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
cis-1,2-DCE	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
cis-1,3-Dichloropropene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
1,2-Dibromo-3-chloropropane	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
Dibromochloromethane	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
Dibromomethane	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
1,2-Dichlorobenzene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
1,3-Dichlorobenzene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
1,4-Dichlorobenzene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
Dichlorodifluoromethane	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
1,1-Dichloroethane	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
1,1-Dichloroethene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
1,2-Dichloropropane	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
1,3-Dichloropropane	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
2,2-Dichloropropane	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
1,1-Dichloropropene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
Hexachlorobutadiene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
Isopropylbenzene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
4-Isopropyltoluene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
Methylene chloride	ND	0.00320		mg/Kg	1	10/9/2012 4:33:16 PM
n-Butylbenzene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
2-Hexanone	ND	0.0107		mg/Kg	1	10/9/2012 4:33:16 PM
n-Propylbenzene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
sec-Butylbenzene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
Styrene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
4-Methyl-2-pentanone	ND	0.0107		mg/Kg	1	10/9/2012 4:33:16 PM
tert-Butylbenzene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
1,1,1,2-Tetrachloroethane	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
1,1,2,2-Tetrachloroethane	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
Tetrachloroethene (PCE)	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
trans-1,2-DCE	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
trans-1,3-Dichloropropene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
1,2,3-Trichlorobenzene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
1,2,4-Trichlorobenzene	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
1,1,1-Trichloroethane	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
1,1,2-Trichloroethane	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
Trichloroethene (TCE)	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
Trichlorofluoromethane	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (10-11')

Project: SWMU NO.1

Collection Date: 10/4/2012 11:45:00 AM

Lab ID: 1210372-016

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
Vinyl chloride	ND	0.00107		mg/Kg	1	10/9/2012 4:33:16 PM
Surr: 1,2-Dichloroethane-d4	90.7	70-130		%REC	1	10/9/2012 4:33:16 PM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	10/9/2012 4:33:16 PM
Surr: Dibromofluoromethane	93.6	70-130		%REC	1	10/9/2012 4:33:16 PM
Surr: Toluene-d8	89.3	70-130		%REC	1	10/9/2012 4:33:16 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (11-12')

Project: SWMU NO.1

Collection Date: 10/4/2012 11:55:00 AM

Lab ID: 1210372-017

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/9/2012 10:44:56 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/9/2012 10:44:56 AM
Surr: DNOP	101	77.6-140		%REC	1	10/9/2012 10:44:56 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/9/2012 2:48:36 AM
Surr: BFB	103	84-116		%REC	1	10/9/2012 2:48:36 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/11/2012 3:41:07 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 5:03:56 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 5:03:56 PM
Barium	700	5.0		mg/Kg	50	10/11/2012 5:12:21 PM
Beryllium	0.96	0.75		mg/Kg	5	10/11/2012 5:03:56 PM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 5:03:56 PM
Chromium	14	1.5		mg/Kg	5	10/11/2012 5:03:56 PM
Cobalt	6.2	1.5		mg/Kg	5	10/11/2012 5:03:56 PM
Iron	18000	500		mg/Kg	500	10/11/2012 5:16:24 PM
Lead	ND	1.2		mg/Kg	5	10/11/2012 5:03:56 PM
Manganese	480	5.0		mg/Kg	50	10/11/2012 5:12:21 PM
Nickel	12	2.5		mg/Kg	5	10/11/2012 5:03:56 PM
Selenium	ND	12		mg/Kg	5	10/11/2012 5:03:56 PM
Silver	ND	1.2		mg/Kg	5	10/11/2012 5:03:56 PM
Vanadium	16	12		mg/Kg	5	10/11/2012 5:03:56 PM
Zinc	25	12		mg/Kg	5	10/11/2012 5:03:56 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Benzoic acid	ND	0.50		mg/Kg	1	10/10/2012 6:57:20 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (11-12')

Project: SWMU NO.1

Collection Date: 10/4/2012 11:55:00 AM

Lab ID: 1210372-017

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/10/2012 6:57:20 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 6:57:20 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/10/2012 6:57:20 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 6:57:20 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/10/2012 6:57:20 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 6:57:20 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 6:57:20 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 6:57:20 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 6:57:20 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 6:57:20 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 6:57:20 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 6:57:20 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 6:57:20 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Fluorene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Isophorone	ND	0.50		mg/Kg	1	10/10/2012 6:57:20 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
2-Methylphenol	ND	0.50		mg/Kg	1	10/10/2012 6:57:20 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Naphthalene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (11-12')

Project: SWMU NO.1

Collection Date: 10/4/2012 11:55:00 AM

Lab ID: 1210372-017

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 6:57:20 AM
Nitrobenzene	ND	0.50		mg/Kg	1	10/10/2012 6:57:20 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 6:57:20 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 6:57:20 AM
Phenanthrene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Pyridine	ND	0.50		mg/Kg	1	10/10/2012 6:57:20 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 6:57:20 AM
Surr: 2,4,6-Tribromophenol	94.5	21.3-145		%REC	1	10/10/2012 6:57:20 AM
Surr: 2-Fluorobiphenyl	86.5	20-131		%REC	1	10/10/2012 6:57:20 AM
Surr: 2-Fluorophenol	82.6	11.9-130		%REC	1	10/10/2012 6:57:20 AM
Surr: 4-Terphenyl-d14	77.7	25.1-149		%REC	1	10/10/2012 6:57:20 AM
Surr: Nitrobenzene-d5	92.7	25.6-137		%REC	1	10/10/2012 6:57:20 AM
Surr: Phenol-d5	86.3	20.3-132		%REC	1	10/10/2012 6:57:20 AM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
Toluene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
Ethylbenzene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
Xylenes, Total	ND	0.00273		mg/Kg	1	10/9/2012 5:04:01 PM
Methyl tert-butyl ether (MTBE)	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
1,2,4-Trimethylbenzene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
1,3,5-Trimethylbenzene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
1,2-Dichloroethane (EDC)	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
1,2-Dibromoethane (EDB)	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
Naphthalene	ND	0.00273		mg/Kg	1	10/9/2012 5:04:01 PM
1-Methylnaphthalene	ND	0.00545		mg/Kg	1	10/9/2012 5:04:01 PM
2-Methylnaphthalene	ND	0.00545		mg/Kg	1	10/9/2012 5:04:01 PM
Acetone	ND	0.0136		mg/Kg	1	10/9/2012 5:04:01 PM
Bromobenzene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
Bromodichloromethane	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
Bromoform	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
Bromomethane	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
2-Butanone	ND	0.0136		mg/Kg	1	10/9/2012 5:04:01 PM
Carbon tetrachloride	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
Chlorobenzene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
Chloroethane	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (11-12')

Project: SWMU NO.1

Collection Date: 10/4/2012 11:55:00 AM

Lab ID: 1210372-017

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
Chloromethane	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
2-Chlorotoluene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
Carbon disulfide	ND	0.0136		mg/Kg	1	10/9/2012 5:04:01 PM
4-Chlorotoluene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
cis-1,2-DCE	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
cis-1,3-Dichloropropene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
1,2-Dibromo-3-chloropropane	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
Dibromochloromethane	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
Dibromomethane	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
1,2-Dichlorobenzene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
1,3-Dichlorobenzene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
1,4-Dichlorobenzene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
Dichlorodifluoromethane	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
1,1-Dichloroethane	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
1,1-Dichloroethene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
1,2-Dichloropropane	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
1,3-Dichloropropane	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
2,2-Dichloropropane	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
1,1-Dichloropropene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
Hexachlorobutadiene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
Isopropylbenzene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
4-Isopropyltoluene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
Methylene chloride	ND	0.00409		mg/Kg	1	10/9/2012 5:04:01 PM
n-Butylbenzene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
2-Hexanone	ND	0.0136		mg/Kg	1	10/9/2012 5:04:01 PM
n-Propylbenzene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
sec-Butylbenzene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
Styrene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
4-Methyl-2-pentanone	ND	0.0136		mg/Kg	1	10/9/2012 5:04:01 PM
tert-Butylbenzene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
1,1,1,2-Tetrachloroethane	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
1,1,2,2-Tetrachloroethane	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
Tetrachloroethene (PCE)	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
trans-1,2-DCE	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
trans-1,3-Dichloropropene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
1,2,3-Trichlorobenzene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
1,2,4-Trichlorobenzene	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
1,1,1-Trichloroethane	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
1,1,2-Trichloroethane	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
Trichloroethene (TCE)	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
Trichlorofluoromethane	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (11-12')

Project: SWMU NO.1

Collection Date: 10/4/2012 11:55:00 AM

Lab ID: 1210372-017

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
Vinyl chloride	ND	0.00136		mg/Kg	1	10/9/2012 5:04:01 PM
Surr: 1,2-Dichloroethane-d4	97.9	70-130		%REC	1	10/9/2012 5:04:01 PM
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	10/9/2012 5:04:01 PM
Surr: Dibromofluoromethane	102	70-130		%REC	1	10/9/2012 5:04:01 PM
Surr: Toluene-d8	101	70-130		%REC	1	10/9/2012 5:04:01 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-7 (12-14')

Project: SWMU NO.1

Collection Date: 10/4/2012 1:55:00 PM

Lab ID: 1210372-018

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/9/2012 11:09:39 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/9/2012 11:09:39 AM
Surr: DNOP	101	77.6-140		%REC	1	10/9/2012 11:09:39 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/9/2012 3:17:22 AM
Surr: BFB	107	84-116		%REC	1	10/9/2012 3:17:22 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/16/2012 4:14:37 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 5:21:56 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 5:21:56 PM
Barium	87	0.50		mg/Kg	5	10/11/2012 5:21:56 PM
Beryllium	1.1	0.75		mg/Kg	5	10/11/2012 5:21:56 PM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 5:21:56 PM
Chromium	12	1.5		mg/Kg	5	10/11/2012 5:21:56 PM
Cobalt	5.4	1.5		mg/Kg	5	10/11/2012 5:21:56 PM
Iron	16000	500		mg/Kg	500	10/11/2012 5:26:48 PM
Lead	4.0	1.2		mg/Kg	5	10/11/2012 5:21:56 PM
Manganese	360	5.0		mg/Kg	50	10/11/2012 5:24:24 PM
Nickel	9.3	2.5		mg/Kg	5	10/11/2012 5:21:56 PM
Selenium	ND	12		mg/Kg	5	10/11/2012 5:21:56 PM
Silver	ND	1.2		mg/Kg	5	10/11/2012 5:21:56 PM
Vanadium	20	12		mg/Kg	5	10/11/2012 5:21:56 PM
Zinc	18	12		mg/Kg	5	10/11/2012 5:21:56 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Benzoic acid	ND	0.50		mg/Kg	1	10/10/2012 7:26:18 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-7 (12-14')

Project: SWMU NO.1

Collection Date: 10/4/2012 1:55:00 PM

Lab ID: 1210372-018

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/10/2012 7:26:18 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 7:26:18 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/10/2012 7:26:18 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 7:26:18 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/10/2012 7:26:18 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 7:26:18 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 7:26:18 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 7:26:18 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 7:26:18 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 7:26:18 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 7:26:18 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 7:26:18 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 7:26:18 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Fluorene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Isophorone	ND	0.50		mg/Kg	1	10/10/2012 7:26:18 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
2-Methylphenol	ND	0.50		mg/Kg	1	10/10/2012 7:26:18 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Naphthalene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-7 (12-14')

Project: SWMU NO.1

Collection Date: 10/4/2012 1:55:00 PM

Lab ID: 1210372-018

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 7:26:18 AM
Nitrobenzene	ND	0.50		mg/Kg	1	10/10/2012 7:26:18 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 7:26:18 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 7:26:18 AM
Phenanthrene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Pyridine	ND	0.50		mg/Kg	1	10/10/2012 7:26:18 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 7:26:18 AM
Surr: 2,4,6-Tribromophenol	89.5	21.3-145		%REC	1	10/10/2012 7:26:18 AM
Surr: 2-Fluorobiphenyl	85.6	20-131		%REC	1	10/10/2012 7:26:18 AM
Surr: 2-Fluorophenol	85.6	11.9-130		%REC	1	10/10/2012 7:26:18 AM
Surr: 4-Terphenyl-d14	76.0	25.1-149		%REC	1	10/10/2012 7:26:18 AM
Surr: Nitrobenzene-d5	91.1	25.6-137		%REC	1	10/10/2012 7:26:18 AM
Surr: Phenol-d5	90.8	20.3-132		%REC	1	10/10/2012 7:26:18 AM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
Toluene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
Ethylbenzene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
Xylenes, Total	ND	0.00237		mg/Kg	1	10/9/2012 5:34:52 PM
Methyl tert-butyl ether (MTBE)	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
1,2,4-Trimethylbenzene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
1,3,5-Trimethylbenzene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
1,2-Dichloroethane (EDC)	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
1,2-Dibromoethane (EDB)	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
Naphthalene	ND	0.00237		mg/Kg	1	10/9/2012 5:34:52 PM
1-Methylnaphthalene	ND	0.00475		mg/Kg	1	10/9/2012 5:34:52 PM
2-Methylnaphthalene	ND	0.00475		mg/Kg	1	10/9/2012 5:34:52 PM
Acetone	0.0138	0.0119		mg/Kg	1	10/9/2012 5:34:52 PM
Bromobenzene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
Bromodichloromethane	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
Bromoform	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
Bromomethane	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
2-Butanone	ND	0.0119		mg/Kg	1	10/9/2012 5:34:52 PM
Carbon tetrachloride	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
Chlorobenzene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
Chloroethane	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-7 (12-14')

Project: SWMU NO.1

Collection Date: 10/4/2012 1:55:00 PM

Lab ID: 1210372-018

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
Chloromethane	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
2-Chlorotoluene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
Carbon disulfide	ND	0.0119		mg/Kg	1	10/9/2012 5:34:52 PM
4-Chlorotoluene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
cis-1,2-DCE	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
cis-1,3-Dichloropropene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
1,2-Dibromo-3-chloropropane	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
Dibromochloromethane	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
Dibromomethane	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
1,2-Dichlorobenzene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
1,3-Dichlorobenzene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
1,4-Dichlorobenzene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
Dichlorodifluoromethane	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
1,1-Dichloroethane	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
1,1-Dichloroethene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
1,2-Dichloropropane	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
1,3-Dichloropropane	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
2,2-Dichloropropane	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
1,1-Dichloropropene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
Hexachlorobutadiene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
Isopropylbenzene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
4-Isopropyltoluene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
Methylene chloride	ND	0.00356		mg/Kg	1	10/9/2012 5:34:52 PM
n-Butylbenzene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
2-Hexanone	ND	0.0119		mg/Kg	1	10/9/2012 5:34:52 PM
n-Propylbenzene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
sec-Butylbenzene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
Styrene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
4-Methyl-2-pentanone	ND	0.0119		mg/Kg	1	10/9/2012 5:34:52 PM
tert-Butylbenzene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
1,1,1,2-Tetrachloroethane	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
1,1,2,2-Tetrachloroethane	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
Tetrachloroethene (PCE)	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
trans-1,2-DCE	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
trans-1,3-Dichloropropene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
1,2,3-Trichlorobenzene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
1,2,4-Trichlorobenzene	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
1,1,1-Trichloroethane	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
1,1,2-Trichloroethane	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
Trichloroethene (TCE)	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
Trichlorofluoromethane	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-7 (12-14')

Project: SWMU NO.1

Collection Date: 10/4/2012 1:55:00 PM

Lab ID: 1210372-018

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
Vinyl chloride	ND	0.00119		mg/Kg	1	10/9/2012 5:34:52 PM
Surr: 1,2-Dichloroethane-d4	90.9	70-130		%REC	1	10/9/2012 5:34:52 PM
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	10/9/2012 5:34:52 PM
Surr: Dibromofluoromethane	92.3	70-130		%REC	1	10/9/2012 5:34:52 PM
Surr: Toluene-d8	95.2	70-130		%REC	1	10/9/2012 5:34:52 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-7 (14-16')

Project: SWMU NO.1

Collection Date: 10/4/2012 2:15:00 PM

Lab ID: 1210372-019

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/9/2012 11:34:18 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/9/2012 11:34:18 AM
Surr: DNOP	105	77.6-140		%REC	1	10/9/2012 11:34:18 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/9/2012 3:46:11 AM
Surr: BFB	107	84-116		%REC	1	10/9/2012 3:46:11 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/16/2012 4:16:25 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 5:29:25 PM
Arsenic	ND	12		mg/Kg	5	10/11/2012 5:29:25 PM
Barium	290	5.0		mg/Kg	50	10/11/2012 5:31:52 PM
Beryllium	0.95	0.75		mg/Kg	5	10/11/2012 5:29:25 PM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 5:29:25 PM
Chromium	11	1.5		mg/Kg	5	10/11/2012 5:29:25 PM
Cobalt	6.0	1.5		mg/Kg	5	10/11/2012 5:29:25 PM
Iron	15000	500		mg/Kg	500	10/11/2012 5:34:18 PM
Lead	3.3	1.2		mg/Kg	5	10/11/2012 5:29:25 PM
Manganese	790	5.0		mg/Kg	50	10/11/2012 5:31:52 PM
Nickel	9.7	2.5		mg/Kg	5	10/11/2012 5:29:25 PM
Selenium	ND	12		mg/Kg	5	10/11/2012 5:29:25 PM
Silver	ND	1.2		mg/Kg	5	10/11/2012 5:29:25 PM
Vanadium	16	12		mg/Kg	5	10/11/2012 5:29:25 PM
Zinc	18	12		mg/Kg	5	10/11/2012 5:29:25 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Benzoic acid	ND	0.51		mg/Kg	1	10/10/2012 7:55:14 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-7 (14-16')

Project: SWMU NO.1

Collection Date: 10/4/2012 2:15:00 PM

Lab ID: 1210372-019

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.51		mg/Kg	1	10/10/2012 7:55:14 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
4-Chloro-3-methylphenol	ND	0.51		mg/Kg	1	10/10/2012 7:55:14 AM
4-Chloroaniline	ND	0.51		mg/Kg	1	10/10/2012 7:55:14 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 7:55:14 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Di-n-butyl phthalate	ND	0.51		mg/Kg	1	10/10/2012 7:55:14 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 7:55:14 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 7:55:14 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 7:55:14 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 7:55:14 AM
4,6-Dinitro-2-methylphenol	ND	0.51		mg/Kg	1	10/10/2012 7:55:14 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 7:55:14 AM
2,4-Dinitrotoluene	ND	0.51		mg/Kg	1	10/10/2012 7:55:14 AM
2,6-Dinitrotoluene	ND	0.51		mg/Kg	1	10/10/2012 7:55:14 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Fluorene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Isophorone	ND	0.51		mg/Kg	1	10/10/2012 7:55:14 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
2-Methylphenol	ND	0.51		mg/Kg	1	10/10/2012 7:55:14 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Naphthalene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-7 (14-16')

Project: SWMU NO.1

Collection Date: 10/4/2012 2:15:00 PM

Lab ID: 1210372-019

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 7:55:14 AM
Nitrobenzene	ND	0.51		mg/Kg	1	10/10/2012 7:55:14 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 7:55:14 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 7:55:14 AM
Phenanthrene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Pyridine	ND	0.51		mg/Kg	1	10/10/2012 7:55:14 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 7:55:14 AM
Surr: 2,4,6-Tribromophenol	55.6	21.3-145		%REC	1	10/10/2012 7:55:14 AM
Surr: 2-Fluorobiphenyl	48.8	20-131		%REC	1	10/10/2012 7:55:14 AM
Surr: 2-Fluorophenol	45.8	11.9-130		%REC	1	10/10/2012 7:55:14 AM
Surr: 4-Terphenyl-d14	53.3	25.1-149		%REC	1	10/10/2012 7:55:14 AM
Surr: Nitrobenzene-d5	48.9	25.6-137		%REC	1	10/10/2012 7:55:14 AM
Surr: Phenol-d5	51.9	20.3-132		%REC	1	10/10/2012 7:55:14 AM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
Toluene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
Ethylbenzene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
Xylenes, Total	ND	0.00291		mg/Kg	1	10/9/2012 6:05:43 PM
Methyl tert-butyl ether (MTBE)	0.00190	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
1,2,4-Trimethylbenzene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
1,3,5-Trimethylbenzene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
1,2-Dichloroethane (EDC)	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
1,2-Dibromoethane (EDB)	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
Naphthalene	ND	0.00291		mg/Kg	1	10/9/2012 6:05:43 PM
1-Methylnaphthalene	ND	0.00581		mg/Kg	1	10/9/2012 6:05:43 PM
2-Methylnaphthalene	ND	0.00581		mg/Kg	1	10/9/2012 6:05:43 PM
Acetone	ND	0.0145		mg/Kg	1	10/9/2012 6:05:43 PM
Bromobenzene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
Bromodichloromethane	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
Bromoform	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
Bromomethane	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
2-Butanone	ND	0.0145		mg/Kg	1	10/9/2012 6:05:43 PM
Carbon tetrachloride	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
Chlorobenzene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
Chloroethane	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-7 (14-16')

Project: SWMU NO.1

Collection Date: 10/4/2012 2:15:00 PM

Lab ID: 1210372-019

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
Chloromethane	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
2-Chlorotoluene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
Carbon disulfide	ND	0.0145		mg/Kg	1	10/9/2012 6:05:43 PM
4-Chlorotoluene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
cis-1,2-DCE	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
cis-1,3-Dichloropropene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
1,2-Dibromo-3-chloropropane	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
Dibromochloromethane	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
Dibromomethane	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
1,2-Dichlorobenzene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
1,3-Dichlorobenzene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
1,4-Dichlorobenzene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
Dichlorodifluoromethane	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
1,1-Dichloroethane	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
1,1-Dichloroethene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
1,2-Dichloropropane	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
1,3-Dichloropropane	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
2,2-Dichloropropane	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
1,1-Dichloropropene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
Hexachlorobutadiene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
Isopropylbenzene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
4-Isopropyltoluene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
Methylene chloride	ND	0.00436		mg/Kg	1	10/9/2012 6:05:43 PM
n-Butylbenzene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
2-Hexanone	ND	0.0145		mg/Kg	1	10/9/2012 6:05:43 PM
n-Propylbenzene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
sec-Butylbenzene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
Styrene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
4-Methyl-2-pentanone	ND	0.0145		mg/Kg	1	10/9/2012 6:05:43 PM
tert-Butylbenzene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
1,1,1,2-Tetrachloroethane	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
1,1,2,2-Tetrachloroethane	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
Tetrachloroethene (PCE)	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
trans-1,2-DCE	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
trans-1,3-Dichloropropene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
1,2,3-Trichlorobenzene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
1,2,4-Trichlorobenzene	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
1,1,1-Trichloroethane	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
1,1,2-Trichloroethane	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
Trichloroethene (TCE)	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
Trichlorofluoromethane	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-7 (14-16')

Project: SWMU NO.1

Collection Date: 10/4/2012 2:15:00 PM

Lab ID: 1210372-019

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
Vinyl chloride	ND	0.00145		mg/Kg	1	10/9/2012 6:05:43 PM
Surr: 1,2-Dichloroethane-d4	98.8	70-130		%REC	1	10/9/2012 6:05:43 PM
Surr: 4-Bromofluorobenzene	88.4	70-130		%REC	1	10/9/2012 6:05:43 PM
Surr: Dibromofluoromethane	101	70-130		%REC	1	10/9/2012 6:05:43 PM
Surr: Toluene-d8	97.0	70-130		%REC	1	10/9/2012 6:05:43 PM

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (2-4')

Project: SWMU NO.1

Collection Date: 10/4/2012 10:55:00 AM

Lab ID: 1210372-020

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/9/2012 9:05:06 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/9/2012 9:05:06 AM
Surr: DNOP	104	77.6-140		%REC	1	10/9/2012 9:05:06 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/9/2012 4:14:57 AM
Surr: BFB	102	84-116		%REC	1	10/9/2012 4:14:57 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/16/2012 4:18:12 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	25		mg/Kg	10	10/15/2012 10:16:58 AM
Arsenic	ND	25		mg/Kg	10	10/15/2012 10:16:58 AM
Barium	660	5.0		mg/Kg	50	10/11/2012 5:39:21 PM
Beryllium	ND	1.5		mg/Kg	10	10/15/2012 10:16:58 AM
Cadmium	ND	1.0		mg/Kg	10	10/15/2012 10:16:58 AM
Chromium	6.1	3.0		mg/Kg	10	10/15/2012 10:16:58 AM
Cobalt	3.5	3.0		mg/Kg	10	10/15/2012 10:16:58 AM
Iron	9600	500		mg/Kg	500	10/11/2012 5:49:22 PM
Lead	5.4	2.5		mg/Kg	10	10/15/2012 10:16:58 AM
Manganese	1000	5.0		mg/Kg	50	10/11/2012 5:39:21 PM
Nickel	ND	5.0		mg/Kg	10	10/15/2012 10:16:58 AM
Selenium	ND	25		mg/Kg	10	10/15/2012 10:35:25 AM
Silver	ND	2.5		mg/Kg	10	10/15/2012 10:16:58 AM
Vanadium	ND	25		mg/Kg	10	10/15/2012 10:16:58 AM
Zinc	ND	25		mg/Kg	10	10/15/2012 10:16:58 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Benzoic acid	ND	0.50		mg/Kg	1	10/10/2012 8:24:14 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM

Qualifiers:

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- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (2-4")

Project: SWMU NO.1

Collection Date: 10/4/2012 10:55:00 AM

Lab ID: 1210372-020

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/10/2012 8:24:14 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 8:24:14 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/10/2012 8:24:14 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 8:24:14 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/10/2012 8:24:14 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 8:24:14 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 8:24:14 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 8:24:14 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 8:24:14 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 8:24:14 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 8:24:14 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 8:24:14 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 8:24:14 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Fluorene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Isophorone	ND	0.50		mg/Kg	1	10/10/2012 8:24:14 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
2-Methylphenol	ND	0.50		mg/Kg	1	10/10/2012 8:24:14 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Naphthalene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (2-4')

Project: SWMU NO.1

Collection Date: 10/4/2012 10:55:00 AM

Lab ID: 1210372-020

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 8:24:14 AM
Nitrobenzene	ND	0.50		mg/Kg	1	10/10/2012 8:24:14 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 8:24:14 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 8:24:14 AM
Phenanthrene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Pyridine	ND	0.50		mg/Kg	1	10/10/2012 8:24:14 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 8:24:14 AM
Surr: 2,4,6-Tribromophenol	82.7	21.3-145		%REC	1	10/10/2012 8:24:14 AM
Surr: 2-Fluorobiphenyl	78.3	20-131		%REC	1	10/10/2012 8:24:14 AM
Surr: 2-Fluorophenol	86.8	11.9-130		%REC	1	10/10/2012 8:24:14 AM
Surr: 4-Terphenyl-d14	72.3	25.1-149		%REC	1	10/10/2012 8:24:14 AM
Surr: Nitrobenzene-d5	88.2	25.6-137		%REC	1	10/10/2012 8:24:14 AM
Surr: Phenol-d5	89.0	20.3-132		%REC	1	10/10/2012 8:24:14 AM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
Toluene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
Ethylbenzene	0.00563	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
Xylenes, Total	0.0431	0.00213		mg/Kg	1	10/9/2012 6:36:32 PM
Methyl tert-butyl ether (MTBE)	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
1,2,4-Trimethylbenzene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
1,3,5-Trimethylbenzene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
1,2-Dichloroethane (EDC)	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
1,2-Dibromoethane (EDB)	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
Naphthalene	ND	0.00213		mg/Kg	1	10/9/2012 6:36:32 PM
1-Methylnaphthalene	ND	0.00427		mg/Kg	1	10/9/2012 6:36:32 PM
2-Methylnaphthalene	ND	0.00427		mg/Kg	1	10/9/2012 6:36:32 PM
Acetone	0.477	0.0107	E	mg/Kg	1	10/9/2012 6:36:32 PM
Bromobenzene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
Bromodichloromethane	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
Bromoform	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
Bromomethane	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
2-Butanone	ND	0.0107		mg/Kg	1	10/9/2012 6:36:32 PM
Carbon tetrachloride	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
Chlorobenzene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
Chloroethane	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (2-4')

Project: SWMU NO.1

Collection Date: 10/4/2012 10:55:00 AM

Lab ID: 1210372-020

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
Chloromethane	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
2-Chlorotoluene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
Carbon disulfide	ND	0.0107		mg/Kg	1	10/9/2012 6:36:32 PM
4-Chlorotoluene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
cis-1,2-DCE	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
cis-1,3-Dichloropropene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
1,2-Dibromo-3-chloropropane	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
Dibromochloromethane	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
Dibromomethane	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
1,2-Dichlorobenzene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
1,3-Dichlorobenzene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
1,4-Dichlorobenzene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
Dichlorodifluoromethane	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
1,1-Dichloroethane	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
1,1-Dichloroethene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
1,2-Dichloropropane	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
1,3-Dichloropropane	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
2,2-Dichloropropane	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
1,1-Dichloropropene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
Hexachlorobutadiene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
Isopropylbenzene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
4-Isopropyltoluene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
Methylene chloride	ND	0.00320		mg/Kg	1	10/9/2012 6:36:32 PM
n-Butylbenzene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
2-Hexanone	ND	0.0107		mg/Kg	1	10/9/2012 6:36:32 PM
n-Propylbenzene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
sec-Butylbenzene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
Styrene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
4-Methyl-2-pentanone	ND	0.0107		mg/Kg	1	10/9/2012 6:36:32 PM
tert-Butylbenzene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
1,1,1,2-Tetrachloroethane	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
1,1,2,2-Tetrachloroethane	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
Tetrachloroethene (PCE)	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
trans-1,2-DCE	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
trans-1,3-Dichloropropene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
1,2,3-Trichlorobenzene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
1,2,4-Trichlorobenzene	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
1,1,1-Trichloroethane	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
1,1,2-Trichloroethane	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
Trichloroethene (TCE)	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
Trichlorofluoromethane	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (2-4')

Project: SWMU NO.1

Collection Date: 10/4/2012 10:55:00 AM

Lab ID: 1210372-020

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
Vinyl chloride	ND	0.00107		mg/Kg	1	10/9/2012 6:36:32 PM
Surr: 1,2-Dichloroethane-d4	88.8	70-130		%REC	1	10/9/2012 6:36:32 PM
Surr: 4-Bromofluorobenzene	100	70-130		%REC	1	10/9/2012 6:36:32 PM
Surr: Dibromofluoromethane	97.7	70-130		%REC	1	10/9/2012 6:36:32 PM
Surr: Toluene-d8	106	70-130		%REC	1	10/9/2012 6:36:32 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (2-4") DUP

Project: SWMU NO.1

Collection Date: 10/4/2012 10:55:00 AM

Lab ID: 1210372-021

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/9/2012 9:30:03 AM
Motor Oil Range Organics (MRO)	ND	52		mg/Kg	1	10/9/2012 9:30:03 AM
Surr: DNOP	104	77.6-140		%REC	1	10/9/2012 9:30:03 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/9/2012 4:43:44 AM
Surr: BFB	102	84-116		%REC	1	10/9/2012 4:43:44 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/16/2012 4:20:01 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 5:52:15 PM
Arsenic	ND	12		mg/Kg	5	10/15/2012 10:19:16 AM
Barium	930	5.0		mg/Kg	50	10/11/2012 5:57:34 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 5:52:15 PM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 5:52:15 PM
Chromium	7.0	1.5		mg/Kg	5	10/15/2012 10:19:16 AM
Cobalt	3.9	1.5		mg/Kg	5	10/11/2012 5:52:15 PM
Iron	10000	500		mg/Kg	500	10/11/2012 6:00:01 PM
Lead	5.0	1.2		mg/Kg	5	10/11/2012 5:52:15 PM
Manganese	830	5.0		mg/Kg	50	10/11/2012 5:57:34 PM
Nickel	5.2	2.5		mg/Kg	5	10/11/2012 5:52:15 PM
Selenium	ND	12		mg/Kg	5	10/15/2012 10:37:40 AM
Silver	ND	1.2		mg/Kg	5	10/11/2012 5:52:15 PM
Vanadium	24	12		mg/Kg	5	10/11/2012 5:52:15 PM
Zinc	13	12		mg/Kg	5	10/15/2012 10:19:16 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Benzoic acid	ND	0.50		mg/Kg	1	10/10/2012 8:53:16 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM

Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (2-4") DUP

Project: SWMU NO.1

Collection Date: 10/4/2012 10:55:00 AM

Lab ID: 1210372-021

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/10/2012 8:53:16 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 8:53:16 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/10/2012 8:53:16 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 8:53:16 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/10/2012 8:53:16 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 8:53:16 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 8:53:16 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 8:53:16 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 8:53:16 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 8:53:16 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 8:53:16 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 8:53:16 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 8:53:16 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Fluorene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Isophorone	ND	0.50		mg/Kg	1	10/10/2012 8:53:16 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
2-Methylphenol	ND	0.50		mg/Kg	1	10/10/2012 8:53:16 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Naphthalene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (2-4") DUP

Project: SWMU NO.1

Collection Date: 10/4/2012 10:55:00 AM

Lab ID: 1210372-021

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 8:53:16 AM
Nitrobenzene	ND	0.50		mg/Kg	1	10/10/2012 8:53:16 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 8:53:16 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 8:53:16 AM
Phenanthrene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Pyridine	ND	0.50		mg/Kg	1	10/10/2012 8:53:16 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 8:53:16 AM
Surr: 2,4,6-Tribromophenol	75.2	21.3-145		%REC	1	10/10/2012 8:53:16 AM
Surr: 2-Fluorobiphenyl	81.9	20-131		%REC	1	10/10/2012 8:53:16 AM
Surr: 2-Fluorophenol	64.5	11.9-130		%REC	1	10/10/2012 8:53:16 AM
Surr: 4-Terphenyl-d14	74.1	25.1-149		%REC	1	10/10/2012 8:53:16 AM
Surr: Nitrobenzene-d5	74.2	25.6-137		%REC	1	10/10/2012 8:53:16 AM
Surr: Phenol-d5	74.8	20.3-132		%REC	1	10/10/2012 8:53:16 AM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
Toluene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
Ethylbenzene	0.00112	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
Xylenes, Total	0.00863	0.00170		mg/Kg	1	10/9/2012 7:07:19 PM
Methyl tert-butyl ether (MTBE)	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
1,2,4-Trimethylbenzene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
1,3,5-Trimethylbenzene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
1,2-Dichloroethane (EDC)	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
1,2-Dibromoethane (EDB)	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
Naphthalene	ND	0.00170		mg/Kg	1	10/9/2012 7:07:19 PM
1-Methylnaphthalene	ND	0.00341		mg/Kg	1	10/9/2012 7:07:19 PM
2-Methylnaphthalene	ND	0.00341		mg/Kg	1	10/9/2012 7:07:19 PM
Acetone	0.460	0.00852	E	mg/Kg	1	10/9/2012 7:07:19 PM
Bromobenzene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
Bromodichloromethane	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
Bromoform	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
Bromomethane	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
2-Butanone	ND	0.00852		mg/Kg	1	10/9/2012 7:07:19 PM
Carbon tetrachloride	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
Chlorobenzene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
Chloroethane	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (2-4") DUP

Project: SWMU NO.1

Collection Date: 10/4/2012 10:55:00 AM

Lab ID: 1210372-021

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
Chloromethane	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
2-Chlorotoluene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
Carbon disulfide	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
4-Chlorotoluene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
cis-1,2-DCE	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
cis-1,3-Dichloropropene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
1,2-Dibromo-3-chloropropane	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
Dibromochloromethane	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
Dibromomethane	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
1,2-Dichlorobenzene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
1,3-Dichlorobenzene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
1,4-Dichlorobenzene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
Dichlorodifluoromethane	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
1,1-Dichloroethane	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
1,1-Dichloroethene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
1,2-Dichloropropane	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
1,3-Dichloropropane	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
2,2-Dichloropropane	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
1,1-Dichloropropene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
Hexachlorobutadiene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
Isopropylbenzene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
4-Isopropyltoluene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
Methylene chloride	ND	0.00256		mg/Kg	1	10/9/2012 7:07:19 PM
n-Butylbenzene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
2-Hexanone	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
n-Propylbenzene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
sec-Butylbenzene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
Styrene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
4-Methyl-2-pentanone	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
tert-Butylbenzene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
1,1,1,2-Tetrachloroethane	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
1,1,2,2-Tetrachloroethane	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
Tetrachloroethene (PCE)	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
trans-1,2-DCE	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
trans-1,3-Dichloropropene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
1,2,3-Trichlorobenzene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
1,2,4-Trichlorobenzene	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
1,1,1-Trichloroethane	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
1,1,2-Trichloroethane	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
Trichloroethene (TCE)	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
Trichlorofluoromethane	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (2-4') DUP

Project: SWMU NO.1

Collection Date: 10/4/2012 10:55:00 AM

Lab ID: 1210372-021

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
Vinyl chloride	ND	0.000852		mg/Kg	1	10/9/2012 7:07:19 PM
Surr: 1,2-Dichloroethane-d4	92.4	70-130		%REC	1	10/9/2012 7:07:19 PM
Surr: 4-Bromofluorobenzene	96.6	70-130		%REC	1	10/9/2012 7:07:19 PM
Surr: Dibromofluoromethane	97.8	70-130		%REC	1	10/9/2012 7:07:19 PM
Surr: Toluene-d8	97.0	70-130		%REC	1	10/9/2012 7:07:19 PM

Qualifiers:

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RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (4-6")

Project: SWMU NO.1

Collection Date: 10/4/2012 11:15:00 AM

Lab ID: 1210372-022

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/9/2012 9:55:06 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/9/2012 9:55:06 AM
Surr: DNOP	102	77.6-140		%REC	1	10/9/2012 9:55:06 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/11/2012 12:51:22 AM
Surr: BFB	104	84-116		%REC	1	10/11/2012 12:51:22 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/16/2012 4:21:47 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 6:02:53 PM
Arsenic	ND	12		mg/Kg	5	10/15/2012 10:21:33 AM
Barium	870	5.0		mg/Kg	50	10/11/2012 6:05:17 PM
Beryllium	ND	0.75		mg/Kg	5	10/11/2012 6:02:53 PM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 6:02:53 PM
Chromium	7.0	1.5		mg/Kg	5	10/15/2012 10:21:33 AM
Cobalt	5.7	1.5		mg/Kg	5	10/11/2012 6:02:53 PM
Iron	9500	500		mg/Kg	500	10/11/2012 6:07:44 PM
Lead	5.6	1.2		mg/Kg	5	10/11/2012 6:02:53 PM
Manganese	1100	5.0		mg/Kg	50	10/11/2012 6:05:17 PM
Nickel	5.2	2.5		mg/Kg	5	10/11/2012 6:02:53 PM
Selenium	ND	12		mg/Kg	5	10/15/2012 10:39:58 AM
Silver	ND	1.2		mg/Kg	5	10/11/2012 6:02:53 PM
Vanadium	16	12		mg/Kg	5	10/11/2012 6:02:53 PM
Zinc	15	12		mg/Kg	5	10/15/2012 10:21:33 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Benzoic acid	ND	0.50		mg/Kg	1	10/10/2012 9:22:16 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM

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- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (4-6")

Project: SWMU NO.1

Collection Date: 10/4/2012 11:15:00 AM

Lab ID: 1210372-022

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/10/2012 9:22:16 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 9:22:16 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/10/2012 9:22:16 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 9:22:16 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/10/2012 9:22:16 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 9:22:16 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 9:22:16 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 9:22:16 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 9:22:16 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 9:22:16 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 9:22:16 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 9:22:16 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 9:22:16 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Fluorene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Isophorone	ND	0.50		mg/Kg	1	10/10/2012 9:22:16 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
2-Methylphenol	ND	0.50		mg/Kg	1	10/10/2012 9:22:16 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Naphthalene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (4-6")

Project: SWMU NO.1

Collection Date: 10/4/2012 11:15:00 AM

Lab ID: 1210372-022

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 9:22:16 AM
Nitrobenzene	ND	0.50		mg/Kg	1	10/10/2012 9:22:16 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 9:22:16 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 9:22:16 AM
Phenanthrene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Pyridine	ND	0.50		mg/Kg	1	10/10/2012 9:22:16 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 9:22:16 AM
Surr: 2,4,6-Tribromophenol	87.0	21.3-145		%REC	1	10/10/2012 9:22:16 AM
Surr: 2-Fluorobiphenyl	88.5	20-131		%REC	1	10/10/2012 9:22:16 AM
Surr: 2-Fluorophenol	79.6	11.9-130		%REC	1	10/10/2012 9:22:16 AM
Surr: 4-Terphenyl-d14	74.9	25.1-149		%REC	1	10/10/2012 9:22:16 AM
Surr: Nitrobenzene-d5	91.0	25.6-137		%REC	1	10/10/2012 9:22:16 AM
Surr: Phenol-d5	91.3	20.3-132		%REC	1	10/10/2012 9:22:16 AM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
Toluene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
Ethylbenzene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
Xylenes, Total	ND	0.00206		mg/Kg	1	10/9/2012 7:38:03 PM
Methyl tert-butyl ether (MTBE)	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
1,2,4-Trimethylbenzene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
1,3,5-Trimethylbenzene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
1,2-Dichloroethane (EDC)	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
1,2-Dibromoethane (EDB)	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
Naphthalene	ND	0.00206		mg/Kg	1	10/9/2012 7:38:03 PM
1-Methylnaphthalene	ND	0.00412		mg/Kg	1	10/9/2012 7:38:03 PM
2-Methylnaphthalene	ND	0.00412		mg/Kg	1	10/9/2012 7:38:03 PM
Acetone	0.0625	0.0103		mg/Kg	1	10/9/2012 7:38:03 PM
Bromobenzene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
Bromodichloromethane	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
Bromoform	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
Bromomethane	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
2-Butanone	ND	0.0103		mg/Kg	1	10/9/2012 7:38:03 PM
Carbon tetrachloride	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
Chlorobenzene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
Chloroethane	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (4-6")

Project: SWMU NO.1

Collection Date: 10/4/2012 11:15:00 AM

Lab ID: 1210372-022

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
Chloromethane	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
2-Chlorotoluene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
Carbon disulfide	ND	0.0103		mg/Kg	1	10/9/2012 7:38:03 PM
4-Chlorotoluene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
cis-1,2-DCE	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
cis-1,3-Dichloropropene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
1,2-Dibromo-3-chloropropane	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
Dibromochloromethane	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
Dibromomethane	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
1,2-Dichlorobenzene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
1,3-Dichlorobenzene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
1,4-Dichlorobenzene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
Dichlorodifluoromethane	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
1,1-Dichloroethane	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
1,1-Dichloroethene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
1,2-Dichloropropane	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
1,3-Dichloropropane	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
2,2-Dichloropropane	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
1,1-Dichloropropene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
Hexachlorobutadiene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
Isopropylbenzene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
4-Isopropyltoluene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
Methylene chloride	ND	0.00309		mg/Kg	1	10/9/2012 7:38:03 PM
n-Butylbenzene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
2-Hexanone	ND	0.0103		mg/Kg	1	10/9/2012 7:38:03 PM
n-Propylbenzene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
sec-Butylbenzene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
Styrene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
4-Methyl-2-pentanone	ND	0.0103		mg/Kg	1	10/9/2012 7:38:03 PM
tert-Butylbenzene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
1,1,1,2-Tetrachloroethane	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
1,1,2,2-Tetrachloroethane	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
Tetrachloroethene (PCE)	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
trans-1,2-DCE	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
trans-1,3-Dichloropropene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
1,2,3-Trichlorobenzene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
1,2,4-Trichlorobenzene	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
1,1,1-Trichloroethane	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
1,1,2-Trichloroethane	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
Trichloroethene (TCE)	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
Trichlorofluoromethane	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (4-6')

Project: SWMU NO.1

Collection Date: 10/4/2012 11:15:00 AM

Lab ID: 1210372-022

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
Vinyl chloride	ND	0.00103		mg/Kg	1	10/9/2012 7:38:03 PM
Surr: 1,2-Dichloroethane-d4	96.6	70-130		%REC	1	10/9/2012 7:38:03 PM
Surr: 4-Bromofluorobenzene	96.8	70-130		%REC	1	10/9/2012 7:38:03 PM
Surr: Dibromofluoromethane	110	70-130		%REC	1	10/9/2012 7:38:03 PM
Surr: Toluene-d8	96.2	70-130		%REC	1	10/9/2012 7:38:03 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (7.5-8')

Project: SWMU NO.1

Collection Date: 10/4/2012 11:30:00 AM

Lab ID: 1210372-023

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/9/2012 10:20:19 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/9/2012 10:20:19 AM
Surr: DNOP	104	77.6-140		%REC	1	10/9/2012 10:20:19 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/11/2012 1:20:05 AM
Surr: BFB	108	84-116		%REC	1	10/11/2012 1:20:05 AM
EPA METHOD 7471: MERCURY						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/16/2012 4:23:43 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Antimony	ND	12		mg/Kg	5	10/11/2012 6:10:37 PM
Arsenic	ND	12		mg/Kg	5	10/15/2012 10:23:51 AM
Barium	110	0.50		mg/Kg	5	10/11/2012 6:10:37 PM
Beryllium	0.83	0.75		mg/Kg	5	10/11/2012 6:10:37 PM
Cadmium	ND	0.50		mg/Kg	5	10/11/2012 6:10:37 PM
Chromium	8.3	1.5		mg/Kg	5	10/15/2012 10:23:51 AM
Cobalt	4.1	1.5		mg/Kg	5	10/11/2012 6:10:37 PM
Iron	13000	500		mg/Kg	500	10/11/2012 6:15:26 PM
Lead	4.1	1.2		mg/Kg	5	10/11/2012 6:10:37 PM
Manganese	390	5.0		mg/Kg	50	10/11/2012 6:13:03 PM
Nickel	6.7	2.5		mg/Kg	5	10/11/2012 6:10:37 PM
Selenium	ND	12		mg/Kg	5	10/15/2012 10:42:12 AM
Silver	ND	1.2		mg/Kg	5	10/11/2012 6:10:37 PM
Vanadium	14	12		mg/Kg	5	10/11/2012 6:10:37 PM
Zinc	14	12		mg/Kg	5	10/15/2012 10:23:51 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Acenaphthylene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Aniline	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Anthracene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Azobenzene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Benz(a)anthracene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Benzoic acid	ND	0.50		mg/Kg	1	10/10/2012 9:51:16 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (7.5-8')

Project: SWMU NO.1

Collection Date: 10/4/2012 11:30:00 AM

Lab ID: 1210372-023

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	10/10/2012 9:51:16 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Carbazole	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 9:51:16 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	10/10/2012 9:51:16 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	10/10/2012 9:51:16 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Chrysene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	10/10/2012 9:51:16 AM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	10/10/2012 9:51:16 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Dibenzofuran	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	10/10/2012 9:51:16 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	10/10/2012 9:51:16 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	10/10/2012 9:51:16 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	10/10/2012 9:51:16 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	10/10/2012 9:51:16 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 9:51:16 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	10/10/2012 9:51:16 AM
Fluoranthene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Fluorene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Hexachloroethane	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Isophorone	ND	0.50		mg/Kg	1	10/10/2012 9:51:16 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
2-Methylphenol	ND	0.50		mg/Kg	1	10/10/2012 9:51:16 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Naphthalene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (7.5-8')

Project: SWMU NO.1

Collection Date: 10/4/2012 11:30:00 AM

Lab ID: 1210372-023

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
3-Nitroaniline	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	10/10/2012 9:51:16 AM
Nitrobenzene	ND	0.50		mg/Kg	1	10/10/2012 9:51:16 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	10/10/2012 9:51:16 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	10/10/2012 9:51:16 AM
Phenanthrene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Phenol	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Pyrene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Pyridine	ND	0.50		mg/Kg	1	10/10/2012 9:51:16 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	10/10/2012 9:51:16 AM
Surr: 2,4,6-Tribromophenol	78.1	21.3-145		%REC	1	10/10/2012 9:51:16 AM
Surr: 2-Fluorobiphenyl	91.1	20-131		%REC	1	10/10/2012 9:51:16 AM
Surr: 2-Fluorophenol	78.6	11.9-130		%REC	1	10/10/2012 9:51:16 AM
Surr: 4-Terphenyl-d14	77.8	25.1-149		%REC	1	10/10/2012 9:51:16 AM
Surr: Nitrobenzene-d5	94.1	25.6-137		%REC	1	10/10/2012 9:51:16 AM
Surr: Phenol-d5	91.1	20.3-132		%REC	1	10/10/2012 9:51:16 AM
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Benzene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
Toluene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
Ethylbenzene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
Xylenes, Total	ND	0.00247		mg/Kg	1	10/9/2012 8:08:50 PM
Methyl tert-butyl ether (MTBE)	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
1,2,4-Trimethylbenzene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
1,3,5-Trimethylbenzene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
1,2-Dichloroethane (EDC)	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
1,2-Dibromoethane (EDB)	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
Naphthalene	ND	0.00247		mg/Kg	1	10/9/2012 8:08:50 PM
1-Methylnaphthalene	ND	0.00494		mg/Kg	1	10/9/2012 8:08:50 PM
2-Methylnaphthalene	ND	0.00494		mg/Kg	1	10/9/2012 8:08:50 PM
Acetone	ND	0.0123		mg/Kg	1	10/9/2012 8:08:50 PM
Bromobenzene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
Bromodichloromethane	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
Bromoform	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
Bromomethane	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
2-Butanone	ND	0.0123		mg/Kg	1	10/9/2012 8:08:50 PM
Carbon tetrachloride	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
Chlorobenzene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
Chloroethane	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM

Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (7.5-8')

Project: SWMU NO.1

Collection Date: 10/4/2012 11:30:00 AM

Lab ID: 1210372-023

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
Chloroform	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
Chloromethane	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
2-Chlorotoluene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
Carbon disulfide	ND	0.0123		mg/Kg	1	10/9/2012 8:08:50 PM
4-Chlorotoluene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
cis-1,2-DCE	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
cis-1,3-Dichloropropene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
1,2-Dibromo-3-chloropropane	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
Dibromochloromethane	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
Dibromomethane	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
1,2-Dichlorobenzene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
1,3-Dichlorobenzene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
1,4-Dichlorobenzene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
Dichlorodifluoromethane	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
1,1-Dichloroethane	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
1,1-Dichloroethene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
1,2-Dichloropropane	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
1,3-Dichloropropane	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
2,2-Dichloropropane	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
1,1-Dichloropropene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
Hexachlorobutadiene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
Isopropylbenzene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
4-Isopropyltoluene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
Methylene chloride	ND	0.00370		mg/Kg	1	10/9/2012 8:08:50 PM
n-Butylbenzene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
2-Hexanone	ND	0.0123		mg/Kg	1	10/9/2012 8:08:50 PM
n-Propylbenzene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
sec-Butylbenzene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
Styrene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
4-Methyl-2-pentanone	ND	0.0123		mg/Kg	1	10/9/2012 8:08:50 PM
tert-Butylbenzene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
1,1,1,2-Tetrachloroethane	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
1,1,2,2-Tetrachloroethane	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
Tetrachloroethene (PCE)	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
trans-1,2-DCE	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
trans-1,3-Dichloropropene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
1,2,3-Trichlorobenzene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
1,2,4-Trichlorobenzene	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
1,1,1-Trichloroethane	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
1,1,2-Trichloroethane	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
Trichloroethene (TCE)	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
Trichlorofluoromethane	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 (7.5-8')

Project: SWMU NO.1

Collection Date: 10/4/2012 11:30:00 AM

Lab ID: 1210372-023

Matrix: SOIL

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
METHOD 8260B/5035LOW: VOLATILES						Analyst: RAA
1,2,3-Trichloropropane	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
Vinyl chloride	ND	0.00123		mg/Kg	1	10/9/2012 8:08:50 PM
Surr: 1,2-Dichloroethane-d4	93.3	70-130		%REC	1	10/9/2012 8:08:50 PM
Surr: 4-Bromofluorobenzene	95.8	70-130		%REC	1	10/9/2012 8:08:50 PM
Surr: Dibromofluoromethane	105	70-130		%REC	1	10/9/2012 8:08:50 PM
Surr: Toluene-d8	94.5	70-130		%REC	1	10/9/2012 8:08:50 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100412

Project: SWMU NO.1

Collection Date: 10/4/2012 5:25:00 PM

Lab ID: 1210372-024

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/8/2012 7:04:53 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/8/2012 7:04:53 PM
Surr: DNOP	120	79.5-166		%REC	1	10/8/2012 7:04:53 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/11/2012 2:57:02 PM
Surr: BFB	98.2	69.8-119		%REC	1	10/11/2012 2:57:02 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Fluoride	ND	0.10		mg/L	1	10/11/2012 4:12:25 AM
Chloride	ND	0.50		mg/L	1	10/8/2012 9:18:45 PM
Sulfate	ND	0.50		mg/L	1	10/8/2012 9:18:45 PM
EPA METHOD 200.7: METALS						Analyst: JLF
Barium	ND	0.0020		mg/L	1	10/10/2012 9:44:39 PM
Beryllium	ND	0.0020		mg/L	1	10/10/2012 9:44:39 PM
Cadmium	ND	0.0020		mg/L	1	10/10/2012 9:44:39 PM
Chromium	ND	0.0060		mg/L	1	10/10/2012 9:44:39 PM
Cobalt	ND	0.0060		mg/L	1	10/10/2012 9:44:39 PM
Iron	ND	0.020		mg/L	1	10/10/2012 9:44:39 PM
Manganese	ND	0.0020		mg/L	1	10/10/2012 9:44:39 PM
Nickel	ND	0.010		mg/L	1	10/10/2012 9:44:39 PM
Silver	ND	0.0050		mg/L	1	10/10/2012 9:44:39 PM
Vanadium	ND	0.050		mg/L	1	10/10/2012 9:44:39 PM
Zinc	ND	0.010		mg/L	1	10/12/2012 8:28:25 AM
EPA 200.8: METALS						Analyst: DBD
Antimony	ND	0.0010		mg/L	1	10/17/2012 11:25:09 AM
Arsenic	ND	0.0010		mg/L	1	10/17/2012 11:25:09 AM
Lead	ND	0.0010		mg/L	1	10/17/2012 11:25:09 AM
Selenium	ND	0.0010		mg/L	1	10/17/2012 11:25:09 AM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	ND	0.00020		mg/L	1	10/12/2012 4:54:38 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Acenaphthylene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Aniline	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Anthracene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Azobenzene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Benz(a)anthracene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Benzo(a)pyrene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Benzo(b)fluoranthene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Benzo(g,h,i)perylene	ND	10		µg/L	1	10/12/2012 12:06:49 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100412

Project: SWMU NO.1

Collection Date: 10/4/2012 5:25:00 PM

Lab ID: 1210372-024

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(k)fluoranthene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Benzoic acid	ND	20		µg/L	1	10/12/2012 12:06:49 AM
Benzyl alcohol	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	10/12/2012 12:06:49 AM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Butyl benzyl phthalate	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Carbazole	ND	10		µg/L	1	10/12/2012 12:06:49 AM
4-Chloro-3-methylphenol	ND	10		µg/L	1	10/12/2012 12:06:49 AM
4-Chloroaniline	ND	10		µg/L	1	10/12/2012 12:06:49 AM
2-Chloronaphthalene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
2-Chlorophenol	ND	10		µg/L	1	10/12/2012 12:06:49 AM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Chrysene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Di-n-butyl phthalate	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Di-n-octyl phthalate	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Dibenz(a,h)anthracene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Dibenzofuran	ND	10		µg/L	1	10/12/2012 12:06:49 AM
1,2-Dichlorobenzene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
1,3-Dichlorobenzene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
1,4-Dichlorobenzene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Diethyl phthalate	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Dimethyl phthalate	ND	10		µg/L	1	10/12/2012 12:06:49 AM
2,4-Dichlorophenol	ND	20		µg/L	1	10/12/2012 12:06:49 AM
2,4-Dimethylphenol	ND	10		µg/L	1	10/12/2012 12:06:49 AM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	10/12/2012 12:06:49 AM
2,4-Dinitrophenol	ND	20		µg/L	1	10/12/2012 12:06:49 AM
2,4-Dinitrotoluene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
2,6-Dinitrotoluene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Fluoranthene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Fluorene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Hexachlorobenzene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Hexachlorobutadiene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Hexachlorocyclopentadiene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Hexachloroethane	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Isophorone	ND	10		µg/L	1	10/12/2012 12:06:49 AM
1-Methylnaphthalene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
2-Methylnaphthalene	ND	10		µg/L	1	10/12/2012 12:06:49 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100412

Project: SWMU NO.1

Collection Date: 10/4/2012 5:25:00 PM

Lab ID: 1210372-024

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylphenol	ND	10		µg/L	1	10/12/2012 12:06:49 AM
3+4-Methylphenol	ND	10		µg/L	1	10/12/2012 12:06:49 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/12/2012 12:06:49 AM
N-Nitrosodimethylamine	ND	10		µg/L	1	10/12/2012 12:06:49 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Naphthalene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
2-Nitroaniline	ND	10		µg/L	1	10/12/2012 12:06:49 AM
3-Nitroaniline	ND	10		µg/L	1	10/12/2012 12:06:49 AM
4-Nitroaniline	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Nitrobenzene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
2-Nitrophenol	ND	10		µg/L	1	10/12/2012 12:06:49 AM
4-Nitrophenol	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Pentachlorophenol	ND	20		µg/L	1	10/12/2012 12:06:49 AM
Phenanthrene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Phenol	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Pyrene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Pyridine	ND	10		µg/L	1	10/12/2012 12:06:49 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/12/2012 12:06:49 AM
2,4,5-Trichlorophenol	ND	10		µg/L	1	10/12/2012 12:06:49 AM
2,4,6-Trichlorophenol	ND	10		µg/L	1	10/12/2012 12:06:49 AM
Surr: 2,4,6-Tribromophenol	77.9	44.2-126		%REC	1	10/12/2012 12:06:49 AM
Surr: 2-Fluorobiphenyl	65.9	37-114		%REC	1	10/12/2012 12:06:49 AM
Surr: 2-Fluorophenol	60.2	23.4-98		%REC	1	10/12/2012 12:06:49 AM
Surr: 4-Terphenyl-d14	59.6	41.3-116		%REC	1	10/12/2012 12:06:49 AM
Surr: Nitrobenzene-d5	78.4	39.5-118		%REC	1	10/12/2012 12:06:49 AM
Surr: Phenol-d5	44.1	20.9-95.9		%REC	1	10/12/2012 12:06:49 AM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
Toluene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
Ethylbenzene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
Naphthalene	ND	2.0		µg/L	1	10/9/2012 6:35:06 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/9/2012 6:35:06 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/9/2012 6:35:06 PM
Acetone	ND	10		µg/L	1	10/9/2012 6:35:06 PM
Bromobenzene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100412

Project: SWMU NO.1

Collection Date: 10/4/2012 5:25:00 PM

Lab ID: 1210372-024

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Bromoform	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
Bromomethane	ND	3.0		µg/L	1	10/9/2012 6:35:06 PM
2-Butanone	ND	10		µg/L	1	10/9/2012 6:35:06 PM
Carbon disulfide	ND	10		µg/L	1	10/9/2012 6:35:06 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
Chlorobenzene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
Chloroethane	ND	2.0		µg/L	1	10/9/2012 6:35:06 PM
Chloroform	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
Chloromethane	ND	3.0		µg/L	1	10/9/2012 6:35:06 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/9/2012 6:35:06 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
Dibromomethane	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/9/2012 6:35:06 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
2-Hexanone	ND	10		µg/L	1	10/9/2012 6:35:06 PM
Isopropylbenzene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/9/2012 6:35:06 PM
Methylene Chloride	ND	3.0		µg/L	1	10/9/2012 6:35:06 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/9/2012 6:35:06 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
Styrene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/9/2012 6:35:06 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EB100412

Project: SWMU NO.1

Collection Date: 10/4/2012 5:25:00 PM

Lab ID: 1210372-024

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/9/2012 6:35:06 PM
Vinyl chloride	ND	1.0		µg/L	1	10/9/2012 6:35:06 PM
Xylenes, Total	ND	1.5		µg/L	1	10/9/2012 6:35:06 PM
Surr: 1,2-Dichloroethane-d4	95.3	70-130		%REC	1	10/9/2012 6:35:06 PM
Surr: 4-Bromofluorobenzene	98.1	70-130		%REC	1	10/9/2012 6:35:06 PM
Surr: Dibromofluoromethane	99.8	70-130		%REC	1	10/9/2012 6:35:06 PM
Surr: Toluene-d8	95.5	70-130		%REC	1	10/9/2012 6:35:06 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Trip Blank

Project: SWMU NO.1

Collection Date:

Lab ID: 1210372-025

Matrix: TRIP BLANK

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
Toluene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
Ethylbenzene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
Naphthalene	ND	2.0		µg/L	1	10/9/2012 7:03:23 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/9/2012 7:03:23 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/9/2012 7:03:23 PM
Acetone	ND	10		µg/L	1	10/9/2012 7:03:23 PM
Bromobenzene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
Bromoform	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
Bromomethane	ND	3.0		µg/L	1	10/9/2012 7:03:23 PM
2-Butanone	ND	10		µg/L	1	10/9/2012 7:03:23 PM
Carbon disulfide	ND	10		µg/L	1	10/9/2012 7:03:23 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
Chlorobenzene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
Chloroethane	ND	2.0		µg/L	1	10/9/2012 7:03:23 PM
Chloroform	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
Chloromethane	ND	3.0		µg/L	1	10/9/2012 7:03:23 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/9/2012 7:03:23 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
Dibromomethane	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/9/2012 7:03:23 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
2-Hexanone	ND	10		µg/L	1	10/9/2012 7:03:23 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Trip Blank

Project: SWMU NO.1

Collection Date:

Lab ID: 1210372-025

Matrix: TRIP BLANK

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Isopropylbenzene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/9/2012 7:03:23 PM
Methylene Chloride	ND	3.0		µg/L	1	10/9/2012 7:03:23 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/9/2012 7:03:23 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
Styrene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/9/2012 7:03:23 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/9/2012 7:03:23 PM
Vinyl chloride	ND	1.0		µg/L	1	10/9/2012 7:03:23 PM
Xylenes, Total	ND	1.5		µg/L	1	10/9/2012 7:03:23 PM
Surr: 1,2-Dichloroethane-d4	93.4	70-130		%REC	1	10/9/2012 7:03:23 PM
Surr: 4-Bromofluorobenzene	98.1	70-130		%REC	1	10/9/2012 7:03:23 PM
Surr: Dibromofluoromethane	97.8	70-130		%REC	1	10/9/2012 7:03:23 PM
Surr: Toluene-d8	93.9	70-130		%REC	1	10/9/2012 7:03:23 PM

Qualifiers:

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- J Analyte detected below quantitation limits
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- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 GW

Project: SWMU NO.1

Collection Date: 10/4/2012 9:25:00 AM

Lab ID: 1210372-026

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	4.4	1.0		mg/L	1	10/8/2012 7:30:15 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/8/2012 7:30:15 PM
Surr: DNOP	122	79.5-166		%REC	1	10/8/2012 7:30:15 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.73	0.050		mg/L	1	10/10/2012 7:47:14 PM
Surr: BFB	145	69.8-119	S	%REC	1	10/10/2012 7:47:14 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Acenaphthylene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Aniline	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Anthracene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Azobenzene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Benz(a)anthracene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Benzo(a)pyrene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Benzo(b)fluoranthene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Benzo(g,h,i)perylene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Benzo(k)fluoranthene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Benzoic acid	ND	20		µg/L	1	10/12/2012 12:36:10 AM
Benzyl alcohol	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	10/12/2012 12:36:10 AM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Butyl benzyl phthalate	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Carbazole	ND	10		µg/L	1	10/12/2012 12:36:10 AM
4-Chloro-3-methylphenol	ND	10		µg/L	1	10/12/2012 12:36:10 AM
4-Chloroaniline	ND	10		µg/L	1	10/12/2012 12:36:10 AM
2-Chloronaphthalene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
2-Chlorophenol	ND	10		µg/L	1	10/12/2012 12:36:10 AM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Chrysene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Di-n-butyl phthalate	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Di-n-octyl phthalate	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Dibenz(a,h)anthracene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Dibenzofuran	ND	10		µg/L	1	10/12/2012 12:36:10 AM
1,2-Dichlorobenzene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
1,3-Dichlorobenzene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
1,4-Dichlorobenzene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Diethyl phthalate	ND	10		µg/L	1	10/12/2012 12:36:10 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 GW

Project: SWMU NO.1

Collection Date: 10/4/2012 9:25:00 AM

Lab ID: 1210372-026

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Dimethyl phthalate	10	10		µg/L	1	10/12/2012 12:36:10 AM
2,4-Dichlorophenol	ND	20		µg/L	1	10/12/2012 12:36:10 AM
2,4-Dimethylphenol	850	50		µg/L	5	10/12/2012 10:37:56 AM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	10/12/2012 12:36:10 AM
2,4-Dinitrophenol	ND	20		µg/L	1	10/12/2012 12:36:10 AM
2,4-Dinitrotoluene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
2,6-Dinitrotoluene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Fluoranthene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Fluorene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Hexachlorobenzene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Hexachlorobutadiene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Hexachlorocyclopentadiene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Hexachloroethane	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Isophorone	ND	10		µg/L	1	10/12/2012 12:36:10 AM
1-Methylnaphthalene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
2-Methylnaphthalene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
2-Methylphenol	18	10		µg/L	1	10/12/2012 12:36:10 AM
3+4-Methylphenol	18	10		µg/L	1	10/12/2012 12:36:10 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/12/2012 12:36:10 AM
N-Nitrosodimethylamine	ND	10		µg/L	1	10/12/2012 12:36:10 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Naphthalene	16	10		µg/L	1	10/12/2012 12:36:10 AM
2-Nitroaniline	ND	10		µg/L	1	10/12/2012 12:36:10 AM
3-Nitroaniline	ND	10		µg/L	1	10/12/2012 12:36:10 AM
4-Nitroaniline	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Nitrobenzene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
2-Nitrophenol	ND	10		µg/L	1	10/12/2012 12:36:10 AM
4-Nitrophenol	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Pentachlorophenol	ND	20		µg/L	1	10/12/2012 12:36:10 AM
Phenanthrene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Phenol	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Pyrene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Pyridine	ND	10		µg/L	1	10/12/2012 12:36:10 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/12/2012 12:36:10 AM
2,4,5-Trichlorophenol	ND	10		µg/L	1	10/12/2012 12:36:10 AM
2,4,6-Trichlorophenol	ND	10		µg/L	1	10/12/2012 12:36:10 AM
Surr: 2,4,6-Tribromophenol	76.9	44.2-126		%REC	1	10/12/2012 12:36:10 AM
Surr: 2-Fluorobiphenyl	67.2	37-114		%REC	1	10/12/2012 12:36:10 AM
Surr: 2-Fluorophenol	53.6	23.4-98		%REC	1	10/12/2012 12:36:10 AM
Surr: 4-Terphenyl-d14	65.1	41.3-116		%REC	1	10/12/2012 12:36:10 AM
Surr: Nitrobenzene-d5	76.1	39.5-118		%REC	1	10/12/2012 12:36:10 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 GW

Project: SWMU NO.1

Collection Date: 10/4/2012 9:25:00 AM

Lab ID: 1210372-026

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Surr: Phenol-d5	44.4	20.9-95.9		%REC	1	10/12/2012 12:36:10 AM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	24	1.0		µg/L	1	10/9/2012 7:31:32 PM
Toluene	16	1.0		µg/L	1	10/9/2012 7:31:32 PM
Ethylbenzene	16	1.0		µg/L	1	10/9/2012 7:31:32 PM
Methyl tert-butyl ether (MTBE)	59	1.0		µg/L	1	10/9/2012 7:31:32 PM
1,2,4-Trimethylbenzene	32	1.0		µg/L	1	10/9/2012 7:31:32 PM
1,3,5-Trimethylbenzene	8.0	1.0		µg/L	1	10/9/2012 7:31:32 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
Naphthalene	32	2.0		µg/L	1	10/9/2012 7:31:32 PM
1-Methylnaphthalene	11	4.0		µg/L	1	10/9/2012 7:31:32 PM
2-Methylnaphthalene	19	4.0		µg/L	1	10/9/2012 7:31:32 PM
Acetone	130	10		µg/L	1	10/9/2012 7:31:32 PM
Bromobenzene	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
Bromoform	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
Bromomethane	ND	3.0		µg/L	1	10/9/2012 7:31:32 PM
2-Butanone	47	10		µg/L	1	10/9/2012 7:31:32 PM
Carbon disulfide	ND	10		µg/L	1	10/9/2012 7:31:32 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
Chlorobenzene	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
Chloroethane	ND	2.0		µg/L	1	10/9/2012 7:31:32 PM
Chloroform	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
Chloromethane	ND	3.0		µg/L	1	10/9/2012 7:31:32 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/9/2012 7:31:32 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
Dibromomethane	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/9/2012 7:31:32 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-4 GW

Project: SWMU NO.1

Collection Date: 10/4/2012 9:25:00 AM

Lab ID: 1210372-026

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
1,1-Dichloropropene	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
2-Hexanone	16	10		µg/L	1	10/9/2012 7:31:32 PM
Isopropylbenzene	1.5	1.0		µg/L	1	10/9/2012 7:31:32 PM
4-Isopropyltoluene	1.5	1.0		µg/L	1	10/9/2012 7:31:32 PM
4-Methyl-2-pentanone	15	10		µg/L	1	10/9/2012 7:31:32 PM
Methylene Chloride	ND	3.0		µg/L	1	10/9/2012 7:31:32 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/9/2012 7:31:32 PM
n-Propylbenzene	2.7	1.0		µg/L	1	10/9/2012 7:31:32 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
Styrene	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/9/2012 7:31:32 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/9/2012 7:31:32 PM
Vinyl chloride	ND	1.0		µg/L	1	10/9/2012 7:31:32 PM
Xylenes, Total	100	1.5		µg/L	1	10/9/2012 7:31:32 PM
Surr: 1,2-Dichloroethane-d4	95.6	70-130		%REC	1	10/9/2012 7:31:32 PM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	10/9/2012 7:31:32 PM
Surr: Dibromofluoromethane	97.4	70-130		%REC	1	10/9/2012 7:31:32 PM
Surr: Toluene-d8	94.3	70-130		%REC	1	10/9/2012 7:31:32 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 GW

Project: SWMU NO.1

Collection Date: 10/4/2012 4:05:00 PM

Lab ID: 1210372-027

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	1.3	1.0		mg/L	1	10/8/2012 7:55:40 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/8/2012 7:55:40 PM
Surr: DNOP	127	79.5-166		%REC	1	10/8/2012 7:55:40 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.13	0.050		mg/L	1	10/10/2012 8:17:32 PM
Surr: BFB	107	69.8-119		%REC	1	10/10/2012 8:17:32 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	8.8	0.50	*	mg/L	5	10/17/2012 9:44:56 PM
Chloride	1200	50		mg/L	100	10/11/2012 10:27:13 PM
Sulfate	1800	50		mg/L	100	10/11/2012 4:37:15 AM
EPA METHOD 200.7: METALS						Analyst: JLF
Barium	3.4	0.020	*	mg/L	5	10/10/2012 7:04:21 PM
Beryllium	0.041	0.020	*	mg/L	5	10/10/2012 7:04:21 PM
Cadmium	ND	0.020		mg/L	5	10/10/2012 7:04:21 PM
Chromium	0.16	0.060	*	mg/L	5	10/12/2012 8:33:04 AM
Cobalt	0.27	0.060		mg/L	5	10/10/2012 7:04:21 PM
Iron	94	2.0	*	mg/L	50	10/12/2012 8:36:20 AM
Manganese	39	0.20	*	mg/L	50	10/12/2012 8:36:20 AM
Nickel	0.55	0.10	*	mg/L	5	10/10/2012 7:04:21 PM
Silver	ND	0.050		mg/L	5	10/10/2012 7:04:21 PM
Vanadium	ND	0.50		mg/L	5	10/10/2012 7:04:21 PM
Zinc	0.88	0.10		mg/L	5	10/12/2012 8:33:04 AM
EPA 200.8: METALS						Analyst: DBD
Antimony	ND	0.0050		mg/L	2.5	10/15/2012 5:14:52 PM
Arsenic	0.054	0.0050	*	mg/L	2.5	10/15/2012 5:14:52 PM
Lead	0.29	0.010	*	mg/L	5	10/16/2012 3:28:37 PM
Selenium	0.024	0.0050		mg/L	2.5	10/15/2012 5:14:52 PM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	0.00021	0.00020		mg/L	1	10/12/2012 4:57:39 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Acenaphthylene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Aniline	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Anthracene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Azobenzene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Benz(a)anthracene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Benzo(a)pyrene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Benzo(b)fluoranthene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Benzo(g,h,i)perylene	ND	20		µg/L	2	10/12/2012 11:07:17 AM

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- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 GW

Project: SWMU NO.1

Collection Date: 10/4/2012 4:05:00 PM

Lab ID: 1210372-027

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(k)fluoranthene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Benzoic acid	ND	40		µg/L	2	10/12/2012 11:07:17 AM
Benzyl alcohol	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Bis(2-chloroethoxy)methane	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Bis(2-chloroethyl)ether	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Bis(2-chloroisopropyl)ether	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Bis(2-ethylhexyl)phthalate	ND	20		µg/L	2	10/12/2012 11:07:17 AM
4-Bromophenyl phenyl ether	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Butyl benzyl phthalate	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Carbazole	ND	20		µg/L	2	10/12/2012 11:07:17 AM
4-Chloro-3-methylphenol	ND	20		µg/L	2	10/12/2012 11:07:17 AM
4-Chloroaniline	ND	20		µg/L	2	10/12/2012 11:07:17 AM
2-Chloronaphthalene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
2-Chlorophenol	ND	20		µg/L	2	10/12/2012 11:07:17 AM
4-Chlorophenyl phenyl ether	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Chrysene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Di-n-butyl phthalate	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Di-n-octyl phthalate	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Dibenz(a,h)anthracene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Dibenzofuran	ND	20		µg/L	2	10/12/2012 11:07:17 AM
1,2-Dichlorobenzene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
1,3-Dichlorobenzene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
1,4-Dichlorobenzene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
3,3'-Dichlorobenzidine	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Diethyl phthalate	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Dimethyl phthalate	ND	20		µg/L	2	10/12/2012 11:07:17 AM
2,4-Dichlorophenol	ND	40		µg/L	2	10/12/2012 11:07:17 AM
2,4-Dimethylphenol	ND	20		µg/L	2	10/12/2012 11:07:17 AM
4,6-Dinitro-2-methylphenol	ND	40		µg/L	2	10/12/2012 11:07:17 AM
2,4-Dinitrophenol	ND	40		µg/L	2	10/12/2012 11:07:17 AM
2,4-Dinitrotoluene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
2,6-Dinitrotoluene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Fluoranthene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Fluorene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Hexachlorobenzene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Hexachlorobutadiene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Hexachlorocyclopentadiene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Hexachloroethane	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Indeno(1,2,3-cd)pyrene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Isophorone	ND	20		µg/L	2	10/12/2012 11:07:17 AM
1-Methylnaphthalene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
2-Methylnaphthalene	ND	20		µg/L	2	10/12/2012 11:07:17 AM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 GW

Project: SWMU NO.1

Collection Date: 10/4/2012 4:05:00 PM

Lab ID: 1210372-027

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylphenol	ND	20		µg/L	2	10/12/2012 11:07:17 AM
3+4-Methylphenol	ND	20		µg/L	2	10/12/2012 11:07:17 AM
N-Nitrosodi-n-propylamine	ND	20		µg/L	2	10/12/2012 11:07:17 AM
N-Nitrosodimethylamine	ND	20		µg/L	2	10/12/2012 11:07:17 AM
N-Nitrosodiphenylamine	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Naphthalene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
2-Nitroaniline	ND	20		µg/L	2	10/12/2012 11:07:17 AM
3-Nitroaniline	ND	20		µg/L	2	10/12/2012 11:07:17 AM
4-Nitroaniline	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Nitrobenzene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
2-Nitrophenol	240	20		µg/L	2	10/12/2012 11:07:17 AM
4-Nitrophenol	26	20		µg/L	2	10/12/2012 11:07:17 AM
Pentachlorophenol	ND	40		µg/L	2	10/12/2012 11:07:17 AM
Phenanthrene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Phenol	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Pyrene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Pyridine	ND	20		µg/L	2	10/12/2012 11:07:17 AM
1,2,4-Trichlorobenzene	ND	20		µg/L	2	10/12/2012 11:07:17 AM
2,4,5-Trichlorophenol	ND	20		µg/L	2	10/12/2012 11:07:17 AM
2,4,6-Trichlorophenol	ND	20		µg/L	2	10/12/2012 11:07:17 AM
Surr: 2,4,6-Tribromophenol	50.7	44.2-126		%REC	2	10/12/2012 11:07:17 AM
Surr: 2-Fluorobiphenyl	79.4	37-114		%REC	2	10/12/2012 11:07:17 AM
Surr: 2-Fluorophenol	36.6	23.4-98		%REC	2	10/12/2012 11:07:17 AM
Surr: 4-Terphenyl-d14	78.4	41.3-116		%REC	2	10/12/2012 11:07:17 AM
Surr: Nitrobenzene-d5	89.5	39.5-118		%REC	2	10/12/2012 11:07:17 AM
Surr: Phenol-d5	29.6	20.9-95.9		%REC	2	10/12/2012 11:07:17 AM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
Toluene	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
Ethylbenzene	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
Naphthalene	ND	2.0		µg/L	1	10/10/2012 3:38:56 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/10/2012 3:38:56 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/10/2012 3:38:56 PM
Acetone	270	50		µg/L	5	10/9/2012 7:59:33 PM
Bromobenzene	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 GW

Project: SWMU NO.1

Collection Date: 10/4/2012 4:05:00 PM

Lab ID: 1210372-027

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Bromoform	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
Bromomethane	3.0	3.0		µg/L	1	10/10/2012 3:38:56 PM
2-Butanone	26	10		µg/L	1	10/10/2012 3:38:56 PM
Carbon disulfide	30	10		µg/L	1	10/10/2012 3:38:56 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
Chlorobenzene	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
Chloroethane	ND	2.0		µg/L	1	10/10/2012 3:38:56 PM
Chloroform	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
Chloromethane	3.5	3.0		µg/L	1	10/10/2012 3:38:56 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/10/2012 3:38:56 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
Dibromomethane	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/10/2012 3:38:56 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
2-Hexanone	ND	10		µg/L	1	10/10/2012 3:38:56 PM
Isopropylbenzene	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
4-Isopropyltoluene	1.2	1.0		µg/L	1	10/10/2012 3:38:56 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/10/2012 3:38:56 PM
Methylene Chloride	ND	3.0		µg/L	1	10/10/2012 3:38:56 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/10/2012 3:38:56 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
Styrene	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/10/2012 3:38:56 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-6 GW

Project: SWMU NO.1

Collection Date: 10/4/2012 4:05:00 PM

Lab ID: 1210372-027

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/10/2012 3:38:56 PM
Vinyl chloride	ND	1.0		µg/L	1	10/10/2012 3:38:56 PM
Xylenes, Total	ND	1.5		µg/L	1	10/10/2012 3:38:56 PM
Surr: 1,2-Dichloroethane-d4	95.0	70-130		%REC	1	10/10/2012 3:38:56 PM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	10/10/2012 3:38:56 PM
Surr: Dibromofluoromethane	94.6	70-130		%REC	1	10/10/2012 3:38:56 PM
Surr: Toluene-d8	94.1	70-130		%REC	1	10/10/2012 3:38:56 PM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-7 GW

Project: SWMU NO.1

Collection Date: 10/4/2012 4:55:00 PM

Lab ID: 1210372-028

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/8/2012 8:21:01 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/8/2012 8:21:01 PM
Surr: DNOP	125	79.5-166		%REC	1	10/8/2012 8:21:01 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.22	0.10		mg/L	2	10/10/2012 8:47:37 PM
Surr: BFB	93.6	69.8-119		%REC	2	10/10/2012 8:47:37 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	1.1	0.50		mg/L	5	10/17/2012 9:57:20 PM
Chloride	1800	100		mg/L	200	10/11/2012 10:39:38 PM
Sulfate	2200	25		mg/L	50	10/11/2012 5:26:54 AM
EPA METHOD 200.7: METALS						Analyst: JLF
Barium	3.2	0.020	*	mg/L	5	10/10/2012 7:11:01 PM
Beryllium	0.051	0.020	*	mg/L	5	10/10/2012 7:11:01 PM
Cadmium	ND	0.020		mg/L	5	10/10/2012 7:11:01 PM
Chromium	0.17	0.060	*	mg/L	5	10/12/2012 8:40:08 AM
Cobalt	0.16	0.060		mg/L	5	10/10/2012 7:11:01 PM
Iron	130	4.0	*	mg/L	100	10/12/2012 10:09:47 AM
Manganese	33	0.20	*	mg/L	50	10/12/2012 8:43:25 AM
Nickel	0.46	0.10	*	mg/L	5	10/10/2012 7:11:01 PM
Silver	ND	0.050		mg/L	5	10/10/2012 7:11:01 PM
Vanadium	ND	0.50		mg/L	5	10/10/2012 7:11:01 PM
Zinc	0.42	0.10		mg/L	5	10/12/2012 8:40:08 AM
EPA 200.8: METALS						Analyst: DBD
Antimony	ND	0.0050		mg/L	2.5	10/15/2012 5:18:48 PM
Arsenic	0.046	0.0050	*	mg/L	2.5	10/15/2012 5:18:48 PM
Lead	0.34	0.010	*	mg/L	5	10/16/2012 3:40:27 PM
Selenium	0.022	0.0050		mg/L	2.5	10/15/2012 5:18:48 PM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	0.00034	0.00020		mg/L	1	10/12/2012 4:59:25 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Acenaphthylene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Aniline	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Anthracene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Azobenzene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Benz(a)anthracene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Benzo(a)pyrene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Benzo(b)fluoranthene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Benzo(g,h,i)perylene	ND	10		µg/L	1	10/12/2012 1:34:52 AM

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-7 GW

Project: SWMU NO.1

Collection Date: 10/4/2012 4:55:00 PM

Lab ID: 1210372-028

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(k)fluoranthene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Benzoic acid	ND	20		µg/L	1	10/12/2012 1:34:52 AM
Benzyl alcohol	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	10/12/2012 1:34:52 AM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Butyl benzyl phthalate	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Carbazole	ND	10		µg/L	1	10/12/2012 1:34:52 AM
4-Chloro-3-methylphenol	ND	10		µg/L	1	10/12/2012 1:34:52 AM
4-Chloroaniline	ND	10		µg/L	1	10/12/2012 1:34:52 AM
2-Chloronaphthalene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
2-Chlorophenol	ND	10		µg/L	1	10/12/2012 1:34:52 AM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Chrysene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Di-n-butyl phthalate	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Di-n-octyl phthalate	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Dibenz(a,h)anthracene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Dibenzofuran	ND	10		µg/L	1	10/12/2012 1:34:52 AM
1,2-Dichlorobenzene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
1,3-Dichlorobenzene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
1,4-Dichlorobenzene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Diethyl phthalate	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Dimethyl phthalate	ND	10		µg/L	1	10/12/2012 1:34:52 AM
2,4-Dichlorophenol	ND	20		µg/L	1	10/12/2012 1:34:52 AM
2,4-Dimethylphenol	ND	10		µg/L	1	10/12/2012 1:34:52 AM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	10/12/2012 1:34:52 AM
2,4-Dinitrophenol	ND	20		µg/L	1	10/12/2012 1:34:52 AM
2,4-Dinitrotoluene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
2,6-Dinitrotoluene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Fluoranthene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Fluorene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Hexachlorobenzene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Hexachlorobutadiene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Hexachlorocyclopentadiene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Hexachloroethane	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Isophorone	ND	10		µg/L	1	10/12/2012 1:34:52 AM
1-Methylnaphthalene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
2-Methylnaphthalene	ND	10		µg/L	1	10/12/2012 1:34:52 AM

Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH greater than 2
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- R RPD outside accepted recovery limits
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-7 GW

Project: SWMU NO.1

Collection Date: 10/4/2012 4:55:00 PM

Lab ID: 1210372-028

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylphenol	ND	10		µg/L	1	10/12/2012 1:34:52 AM
3+4-Methylphenol	ND	10		µg/L	1	10/12/2012 1:34:52 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/12/2012 1:34:52 AM
N-Nitrosodimethylamine	ND	10		µg/L	1	10/12/2012 1:34:52 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Naphthalene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
2-Nitroaniline	ND	10		µg/L	1	10/12/2012 1:34:52 AM
3-Nitroaniline	ND	10		µg/L	1	10/12/2012 1:34:52 AM
4-Nitroaniline	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Nitrobenzene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
2-Nitrophenol	ND	10		µg/L	1	10/12/2012 1:34:52 AM
4-Nitrophenol	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Pentachlorophenol	ND	20		µg/L	1	10/12/2012 1:34:52 AM
Phenanthrene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Phenol	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Pyrene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Pyridine	ND	10		µg/L	1	10/12/2012 1:34:52 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/12/2012 1:34:52 AM
2,4,5-Trichlorophenol	ND	10		µg/L	1	10/12/2012 1:34:52 AM
2,4,6-Trichlorophenol	ND	10		µg/L	1	10/12/2012 1:34:52 AM
Surr: 2,4,6-Tribromophenol	80.3	44.2-126		%REC	1	10/12/2012 1:34:52 AM
Surr: 2-Fluorobiphenyl	78.3	37-114		%REC	1	10/12/2012 1:34:52 AM
Surr: 2-Fluorophenol	55.5	23.4-98		%REC	1	10/12/2012 1:34:52 AM
Surr: 4-Terphenyl-d14	91.4	41.3-116		%REC	1	10/12/2012 1:34:52 AM
Surr: Nitrobenzene-d5	82.7	39.5-118		%REC	1	10/12/2012 1:34:52 AM
Surr: Phenol-d5	32.0	20.9-95.9		%REC	1	10/12/2012 1:34:52 AM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
Toluene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
Ethylbenzene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
Methyl tert-butyl ether (MTBE)	14	2.0		µg/L	2	10/9/2012 8:27:45 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
1,2-Dichloroethane (EDC)	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
Naphthalene	ND	4.0		µg/L	2	10/9/2012 8:27:45 PM
1-Methylnaphthalene	ND	8.0		µg/L	2	10/9/2012 8:27:45 PM
2-Methylnaphthalene	ND	8.0		µg/L	2	10/9/2012 8:27:45 PM
Acetone	ND	20		µg/L	2	10/9/2012 8:27:45 PM
Bromobenzene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
Bromodichloromethane	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM

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- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-7 GW

Project: SWMU NO.1

Collection Date: 10/4/2012 4:55:00 PM

Lab ID: 1210372-028

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Bromoform	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
Bromomethane	ND	6.0		µg/L	2	10/9/2012 8:27:45 PM
2-Butanone	ND	20		µg/L	2	10/9/2012 8:27:45 PM
Carbon disulfide	ND	20		µg/L	2	10/9/2012 8:27:45 PM
Carbon Tetrachloride	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
Chlorobenzene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
Chloroethane	ND	4.0		µg/L	2	10/9/2012 8:27:45 PM
Chloroform	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
Chloromethane	ND	6.0		µg/L	2	10/9/2012 8:27:45 PM
2-Chlorotoluene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
4-Chlorotoluene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
cis-1,2-DCE	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	10/9/2012 8:27:45 PM
Dibromochloromethane	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
Dibromomethane	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
Dichlorodifluoromethane	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
1,1-Dichloroethane	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
1,1-Dichloroethene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
1,2-Dichloropropane	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
1,3-Dichloropropane	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
2,2-Dichloropropane	ND	4.0		µg/L	2	10/9/2012 8:27:45 PM
1,1-Dichloropropene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
Hexachlorobutadiene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
2-Hexanone	ND	20		µg/L	2	10/9/2012 8:27:45 PM
Isopropylbenzene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
4-Isopropyltoluene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
4-Methyl-2-pentanone	ND	20		µg/L	2	10/9/2012 8:27:45 PM
Methylene Chloride	ND	6.0		µg/L	2	10/9/2012 8:27:45 PM
n-Butylbenzene	ND	6.0		µg/L	2	10/9/2012 8:27:45 PM
n-Propylbenzene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
sec-Butylbenzene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
Styrene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
tert-Butylbenzene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	10/9/2012 8:27:45 PM
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
trans-1,2-DCE	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210372

Date Reported: 11/14/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: SWMU 1-7 GW

Project: SWMU NO.1

Collection Date: 10/4/2012 4:55:00 PM

Lab ID: 1210372-028

Matrix: AQUEOUS

Received Date: 10/6/2012 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
Trichloroethene (TCE)	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
Trichlorofluoromethane	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
1,2,3-Trichloropropane	ND	4.0		µg/L	2	10/9/2012 8:27:45 PM
Vinyl chloride	ND	2.0		µg/L	2	10/9/2012 8:27:45 PM
Xylenes, Total	ND	3.0		µg/L	2	10/9/2012 8:27:45 PM
Surr: 1,2-Dichloroethane-d4	96.2	70-130		%REC	2	10/9/2012 8:27:45 PM
Surr: 4-Bromofluorobenzene	95.8	70-130		%REC	2	10/9/2012 8:27:45 PM
Surr: Dibromofluoromethane	99.8	70-130		%REC	2	10/9/2012 8:27:45 PM
Surr: Toluene-d8	93.7	70-130		%REC	2	10/9/2012 8:27:45 PM

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- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 121009050
Project Name: 1210372

Analytical Results Report

Sample Number	121009050-001	Sampling Date	10/5/2012	Date/Time Received	10/9/2012	12:24 PM	
Client Sample ID	1210372-001D / SWMU 1-1 (2-4)			Sampling Time	2:10 PM		
Matrix	Soil	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	1.26	mg/Kg	0.3	10/18/2012	CRW	EPA 335.4	
%moisture	15.9	Percent				%moisture	

Sample Number	121009050-002	Sampling Date	10/5/2012	Date/Time Received	10/9/2012	12:24 PM	
Client Sample ID	1210372-002B / SWMU 1-1 (10-12)			Sampling Time	2:15 PM		
Matrix	Soil	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/18/2012	CRW	EPA 335.4	
%moisture	16.9	Percent				%moisture	

Sample Number	121009050-003	Sampling Date	10/5/2012	Date/Time Received	10/9/2012	12:24 PM	
Client Sample ID	1210372-003C / SWMU 1-1 (13-14)			Sampling Time	2:30 PM		
Matrix	Soil	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/18/2012	CRW	EPA 335.4	
%moisture	10.5	Percent				%moisture	

Sample Number	121009050-004	Sampling Date	10/5/2012	Date/Time Received	10/9/2012	12:24 PM	
Client Sample ID	1210372-004D / SWMU 1-8 (16-18)DUP			Sampling Time	11:10 AM		
Matrix	Soil	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/18/2012	CRW	EPA 335.4	
%moisture	12.4	Percent				%moisture	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 121009050
Project Name: 1210372

Analytical Results Report

Sample Number	121009050-005	Sampling Date	10/5/2012	Date/Time Received	10/9/2012	12:24 PM	
Client Sample ID	1210372-005D / SWMU 1-8 (19-20)			Sampling Time	11:25 AM		
Matrix	Soil	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/18/2012	CRW	EPA 335.4	
%moisture	12.7	Percent				%moisture	

Sample Number	121009050-006	Sampling Date	10/5/2012	Date/Time Received	10/9/2012	12:24 PM	
Client Sample ID	1210372-006D / SWMU 1-8 (4-6)			Sampling Time	10:20 AM		
Matrix	Soil	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/18/2012	CRW	EPA 335.4	
%moisture	14.5	Percent				%moisture	

Sample Number	121009050-007	Sampling Date	10/5/2012	Date/Time Received	10/9/2012	12:24 PM	
Client Sample ID	1210372-007D / SWMU 1-8 (10-12)			Sampling Time	10:30 AM		
Matrix	Soil	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	0.612	mg/Kg	0.3	10/18/2012	CRW	EPA 335.4	
%moisture	6.5	Percent				%moisture	

Sample Number	121009050-008	Sampling Date	10/5/2012	Date/Time Received	10/9/2012	12:24 PM	
Client Sample ID	1210372-008E / SWMU 1-8 (12-14)			Sampling Time	10:40 AM		
Matrix	Soil	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	0.395	mg/Kg	0.3	10/18/2012	CRW	EPA 335.4	
%moisture	14.9	Percent				%moisture	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 121009050
Project Name: 1210372

Analytical Results Report

Sample Number	121009050-009	Sampling Date	10/5/2012	Date/Time Received	10/9/2012 12:24 PM
Client Sample ID	1210372-009D / SWMU 1-8 (16-18)	Sampling Time	11:10 AM		
Matrix	Soil	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/18/2012	CRW	EPA 335.4	
%moisture	12.6	Percent				%moisture	

Sample Number	121009050-010	Sampling Date	10/5/2012	Date/Time Received	10/9/2012 12:24 PM
Client Sample ID	1210372-010F / EB100512	Sampling Time	5:40 PM		
Matrix	Water	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/L	0.01	10/18/2012	CRW	EPA 335.4	

Sample Number	121009050-011	Sampling Date	10/5/2012	Date/Time Received	10/9/2012 12:24 PM
Client Sample ID	1210372-012B / SWMU 1-4 GW	Sampling Time	7:45 AM		
Matrix	Water	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	0.0211	mg/L	0.01	10/18/2012	CRW	EPA 335.4	

Sample Number	121009050-012	Sampling Date	10/5/2012	Date/Time Received	10/9/2012 12:24 PM
Client Sample ID	1210372-014F / SWMU 1-8 GW	Sampling Time	4:05 PM		
Matrix	Water	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	0.0180	mg/L	0.01	10/18/2012	CRW	EPA 335.4	

Sample Number	121009050-013	Sampling Date	10/4/2012	Date/Time Received	10/9/2012 12:24 PM
Client Sample ID	1210372-015D / SWMU 1-7 (16-18)	Sampling Time	4:40 PM		
Matrix	Soil	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/17/2012	CRW	EPA 335.4	
%moisture	15.5	Percent				%moisture	

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Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095

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ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 121009050
Project Name: 1210372

Analytical Results Report

Sample Number	121009050-014	Sampling Date	10/4/2012	Date/Time Received	10/9/2012 12:24 PM
Client Sample ID	1210372-016D / SWMU 1-6 (10-11)	Sampling Time	11:45 AM		
Matrix	Soil	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/17/2012	CRW	EPA 335.4	
%moisture	16.2	Percent				%moisture	

Sample Number	121009050-015	Sampling Date	10/4/2012	Date/Time Received	10/9/2012 12:24 PM
Client Sample ID	1210372-017D / SWMU 1-6 (11-12)	Sampling Time	11:55 AM		
Matrix	Soil	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/17/2012	CRW	EPA 335.4	
%moisture	14.6	Percent				%moisture	

Sample Number	121009050-016	Sampling Date	10/4/2012	Date/Time Received	10/9/2012 12:24 PM
Client Sample ID	1210372-018D / SWMU 1-7 (12-14)	Sampling Time	1:55 PM		
Matrix	Soil	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/17/2012	CRW	EPA 335.4	
%moisture	16.1	Percent				%moisture	

Sample Number	121009050-017	Sampling Date	10/4/2012	Date/Time Received	10/9/2012 12:24 PM
Client Sample ID	1210372-019D / SWMU 1-7 (14-16)	Sampling Time	2:15 PM		
Matrix	Soil	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/17/2012	CRW	EPA 335.4	
%moisture	21.8	Percent				%moisture	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 121009050
Project Name: 1210372

Analytical Results Report

Sample Number	121009050-018	Sampling Date	10/4/2012	Date/Time Received	10/9/2012 12:24 PM
Client Sample ID	1210372-020C / SWMU 1-6 (2-4)	Sampling Time	10:55 AM		
Matrix	Soil	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/17/2012	CRW	EPA 335.4	
%moisture	3.2	Percent				%moisture	

Sample Number	121009050-019	Sampling Date	10/4/2012	Date/Time Received	10/9/2012 12:24 PM
Client Sample ID	1210372-021C / SWMU 1-6 (2-4) DUP	Sampling Time	10:55 AM		
Matrix	Soil	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/17/2012	CRW	EPA 335.4	
%moisture	2.8	Percent				%moisture	

Sample Number	121009050-020	Sampling Date	10/4/2012	Date/Time Received	10/9/2012 12:24 PM
Client Sample ID	1210372-022D / SWMU 1-6 (4-6)	Sampling Time	11:15 AM		
Matrix	Soil	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/17/2012	CRW	EPA 335.4	
%moisture	15.2	Percent				%moisture	

Sample Number	121009050-021	Sampling Date	10/4/2012	Date/Time Received	10/9/2012 12:24 PM
Client Sample ID	1210372-023D / SWMU 1-6 (7.5-8)	Sampling Time	11:30 AM		
Matrix	Soil	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/17/2012	CRW	EPA 335.4	
%moisture	22.1	Percent				%moisture	

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Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 121009050
Project Name: 1210372

Analytical Results Report

Sample Number	121009050-022	Sampling Date	10/4/2012	Date/Time Received	10/9/2012 12:24 PM
Client Sample ID	1210372-024F / EB100412	Sampling Time	5:25 PM		
Matrix	Water	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/L	0.01	10/18/2012	CRW	EPA 335.4	

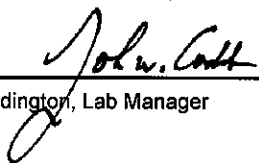
Sample Number	121009050-023	Sampling Date	10/4/2012	Date/Time Received	10/9/2012 12:24 PM
Client Sample ID	1210372-027E / SWMU 1-6 GW	Sampling Time	4:05 PM		
Matrix	Water	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	0.0282	mg/L	0.01	10/18/2012	CRW	EPA 335.4	

Sample Number	121009050-024	Sampling Date	10/4/2012	Date/Time Received	10/9/2012 12:24 PM
Client Sample ID	1210372-028E / SWMU 1-7 GW	Sampling Time	4:55 PM		
Matrix	Water	Sample Location			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	0.0515	mg/L	0.01	10/18/2012	CRW	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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The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210372

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB		SampType:	MBLK		TestCode:	EPA Method 200.7: Metals			
Client ID:	PBW		Batch ID:	R6141		RunNo:	6141			
Prep Date:			Analysis Date:	10/10/2012		SeqNo:	176939	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Beryllium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Iron	ND	0.020								
Manganese	ND	0.0020								
Nickel	ND	0.010								
Silver	ND	0.0050								
Vanadium	ND	0.050								

Sample ID	LCS		SampType:	LCS		TestCode:	EPA Method 200.7: Metals			
Client ID:	LCSW		Batch ID:	R6141		RunNo:	6141			
Prep Date:			Analysis Date:	10/10/2012		SeqNo:	176940	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0	98.6	85	115			
Beryllium	0.51	0.0020	0.5000	0	101	85	115			
Cadmium	0.50	0.0020	0.5000	0	100	85	115			
Chromium	0.49	0.0060	0.5000	0	97.3	85	115			
Cobalt	0.48	0.0060	0.5000	0	96.2	85	115			
Iron	0.49	0.020	0.5000	0	98.1	85	115			
Manganese	0.49	0.0020	0.5000	0	97.7	85	115			
Nickel	0.47	0.010	0.5000	0	94.9	85	115			
Silver	0.10	0.0050	0.1000	0	102	85	115			
Vanadium	0.51	0.050	0.5000	0	101	85	115			

Sample ID	1210368-001BMS		SampType:	MS		TestCode:	EPA Method 200.7: Metals			
Client ID:	BatchQC		Batch ID:	R6141		RunNo:	6141			
Prep Date:			Analysis Date:	10/10/2012		SeqNo:	177005	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.51	0.0020	0.5000	0.02430	96.8	70	130			
Beryllium	0.51	0.0020	0.5000	0	102	70	130			
Cadmium	0.49	0.0020	0.5000	0	97.8	70	130			

Sample ID	1210368-001BMSD		SampType:	MSD		TestCode:	EPA Method 200.7: Metals			
Client ID:	BatchQC		Batch ID:	R6141		RunNo:	6141			
Prep Date:			Analysis Date:	10/10/2012		SeqNo:	177006	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.51	0.0020	0.5000	0.02430	97.1	70	130	0.302	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210372

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	1210368-001BMSD			SampType:	MSD		TestCode:	EPA Method 200.7: Metals			
Client ID:	BatchQC			Batch ID:	R6141		RunNo:	6141			
Prep Date:				Analysis Date:	10/10/2012		SeqNo:	177006		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Beryllium	0.52	0.0020	0.5000	0	103	70	130	0.724	20		
Cadmium	0.50	0.0020	0.5000	0	99.0	70	130	1.24	20		

Sample ID	MB-4223	SampType: MBLK			TestCode: EPA Method 200.7: Metals					
Client ID:	PBW	Batch ID: 4223			RunNo: 6141					
Prep Date:	10/10/2012	Analysis Date: 10/10/2012			SeqNo: 177028		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Beryllium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Iron	ND	0.020								
Manganese	ND	0.0020								
Nickel	ND	0.010								
Silver	ND	0.0050								
Vanadium	ND	0.050								
Zinc	ND	0.010								

Sample ID	LCS-4223		SampType: LCS		TestCode: EPA Method 200.7: Metals					
Client ID:	LCSW		Batch ID: 4223		RunNo: 6141					
Prep Date:	10/10/2012		Analysis Date: 10/10/2012		SeqNo: 177029		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0	99.0	85	115			
Beryllium	0.52	0.0020	0.5000	0	104	85	115			
Cadmium	0.51	0.0020	0.5000	0	102	85	115			
Chromium	0.49	0.0060	0.5000	0	98.2	85	115			
Cobalt	0.49	0.0060	0.5000	0	97.1	85	115			
Iron	0.50	0.020	0.5000	0	100	85	115			
Manganese	0.49	0.0020	0.5000	0	98.3	85	115			
Nickel	0.48	0.010	0.5000	0	96.2	85	115			
Silver	0.10	0.0050	0.1000	0	103	85	115			
Vanadium	0.51	0.050	0.5000	0	102	85	115			
Zinc	0.49	0.010	0.5000	0	97.9	85	115			

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 200.7: Metals					
Client ID:	PBW	Batch ID: R6212			RunNo: 6212					
Prep Date:		Analysis Date: 10/12/2012			SeqNo: 178907		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210372

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB		SampType: MBLK			TestCode: EPA Method 200.7: Metals				
Client ID:	PBW		Batch ID: R6212			RunNo: 6212				
Prep Date:			Analysis Date: 10/12/2012			SeqNo: 178907		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Zinc	ND	0.010								

Sample ID	LCS		SampType: LCS			TestCode: EPA Method 200.7: Metals				
Client ID:	LCSW		Batch ID: R6212			RunNo: 6212				
Prep Date:			Analysis Date: 10/12/2012			SeqNo: 178908		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Zinc	0.51	0.010	0.5000	0	101	85	115			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210372

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	MB-4223		SampType:	MBLK		TestCode:	EPA 200.8: Metals			
Client ID:	PBW		Batch ID:	4223		RunNo:	6249			
Prep Date:	10/10/2012		Analysis Date:	10/15/2012		SeqNo:	179959		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0025								
Arsenic	ND	0.0025								
Lead	ND	0.0025								
Selenium	ND	0.0025								

Sample ID	1210046-001AMS		SampType:	MS		TestCode:	EPA 200.8: Metals			
Client ID:	BatchQC		Batch ID:	R6315		RunNo:	6315			
Prep Date:			Analysis Date:	10/17/2012		SeqNo:	181878		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.027	0.0010	0.02500	0.001891	99.5	70	130			

Sample ID	1210367-001BMS		SampType:	MS		TestCode:	EPA 200.8: Metals			
Client ID:	BatchQC		Batch ID:	R6315		RunNo:	6315			
Prep Date:			Analysis Date:	10/17/2012		SeqNo:	181885		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.025	0.0010	0.02500	0	98.6	70	130			
Arsenic	0.035	0.0010	0.02500	0.01018	101	70	130			
Selenium	0.031	0.0010	0.02500	0.005490	104	70	130			

Sample ID	LCS		SampType:	LCS		TestCode:	EPA 200.8: Metals			
Client ID:	LCSW		Batch ID:	R6315		RunNo:	6315			
Prep Date:			Analysis Date:	10/17/2012		SeqNo:	181905		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.025	0.0010	0.02500	0	101	85	115			
Arsenic	0.026	0.0010	0.02500	0	102	85	115			
Lead	0.025	0.0010	0.02500	0	99.9	85	115			
Selenium	0.026	0.0010	0.02500	0	106	85	115			

Sample ID	LCS		SampType:	LCS		TestCode:	EPA 200.8: Metals			
Client ID:	LCSW		Batch ID:	R6315		RunNo:	6315			
Prep Date:			Analysis Date:	10/17/2012		SeqNo:	181906		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.025	0.0010	0.02500	0	101	85	115			
Arsenic	0.026	0.0010	0.02500	0	102	85	115			
Lead	0.025	0.0010	0.02500	0	99.6	85	115			
Selenium	0.027	0.0010	0.02500	0	106	85	115			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210372

14-Nov-12

Client: Western Refining Southwest, Gallup

Project: SWMU NO.1

Sample ID	LCS			SampType: LCS		TestCode: EPA 200.8: Metals				
Client ID:	LCSW			Batch ID: R6315		RunNo: 6315				
Prep Date:				Analysis Date: 10/17/2012		SeqNo: 181907		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.024	0.0010	0.02500	0	96.7	85	115			
Arsenic	0.025	0.0010	0.02500	0	101	85	115			
Lead	0.025	0.0010	0.02500	0	100	85	115			
Selenium	0.026	0.0010	0.02500	0	106	85	115			

Sample ID	MB	SampType: MBLK			TestCode: EPA 200.8: Metals					
Client ID:	PBW	Batch ID: R6315			RunNo: 6315					
Prep Date:		Analysis Date: 10/17/2012			SeqNo: 181909		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID	MB	SampType: MBLK			TestCode: EPA 200.8: Metals					
Client ID:	PBW	Batch ID: R6315			RunNo: 6315					
Prep Date:		Analysis Date: 10/17/2012			SeqNo: 181910		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID	MB	SampType: MBLK			TestCode: EPA 200.8: Metals					
Client ID:	PBW	Batch ID: R6315			RunNo: 6315					
Prep Date:		Analysis Date: 10/17/2012			SeqNo: 181911		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID	1210585-001CMS			SampType: MS		TestCode: EPA 200.8: Metals				
Client ID:	BatchQC			Batch ID: R6315		RunNo: 6315				
Prep Date:				Analysis Date: 10/17/2012		SeqNo: 181948		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.026	0.0010	0.02500	0	103	70	130			
Arsenic	0.026	0.0010	0.02500	0	102	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
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