

GRCB



Monzeglio, Hope, NMENV

From: Hurtado, Cindy [Cindy.Hurtado@wnr.com]
Sent: Tuesday, November 17, 2009 1:35 PM
To: Monzeglio, Hope, NMENV; Schmaltz, Randy
Cc: Krakow, Bob; Robinson, Kelly
Subject: Bloomfield Refinery - Active Landfill Waste Stream Sampling
Attachments: FCC & Precip Fines Analysis 10-2009.pdf

Good Afternoon Hope,

Please find attached the analytical results of samples from Bloomfield Refinery's FCC Fines and Precipitator Fines as requested at the October 20, 2009 meeting with OCD and NMED in OCD's Santa Fe office as well as the subsequent October 27, 2009 letter (*Waste Stream Sampling at the Active Landfill*) from NMED. Please contact Randy Schmaltz if you have questions.

Thanks,
Cindy

Cindy Hurtado
Environmental Coordinator
Western Refining Southwest, Inc. - Bloomfield Refinery
cindy.hurtado@wnr.com
505-632-4161

This inbound email has been scanned for malicious software and transmitted safely to you using Webroot Email Security.

COVER LETTER

Tuesday, November 10, 2009

Cindy Hurtado
Western Refining Southwest, Inc.
#50 CR 4990
Bloomfield, NM 87413

TEL: (505) 632-4161
FAX (505) 632-3911

RE: Waste Streams 10-22-09

Order No.: 0910440

Dear Cindy Hurtado:

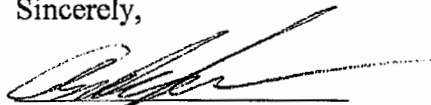
Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 10/23/2009 for the analyses presented in the following report.

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

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

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

Sincerely,



Andy Freeman, Laboratory Manager

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



Hall Environmental Analysis Laboratory, Inc.

Date: 10-Nov-09

CLIENT: Western Refining Southwest, Inc.
 Lab Order: 0910440
 Project: Waste Streams 10-22-09
 Lab ID: 0910440-01

Client Sample ID: FCC fines
 Collection Date: 10/22/2009 10:40:00 AM
 Date Received: 10/23/2009
 Matrix: SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 7471: MERCURY						Analyst: SNV
Mercury	ND	0.033		mg/Kg	1	11/3/2009 3:27:05 PM
MERCURY, TCLP						Analyst: IC
Mercury	ND	0.020		mg/L	1	10/29/2009 2:45:02 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Aluminum	70000	5700		mg/Kg	2000	11/3/2009 7:08:02 PM
Antimony	ND	48		mg/Kg	20	10/30/2009 4:36:42 PM
Arsenic	220	48		mg/Kg	20	10/30/2009 4:36:42 PM
Barium	400	1.9		mg/Kg	20	10/30/2009 4:36:42 PM
Beryllium	ND	2.9		mg/Kg	20	10/30/2009 4:36:42 PM
Cadmium	ND	1.9		mg/Kg	20	10/30/2009 4:36:42 PM
Calcium	1700	480		mg/Kg	20	10/30/2009 4:36:42 PM
Chromium	26	5.7		mg/Kg	20	10/30/2009 4:36:42 PM
Cobalt	ND	2.9		mg/Kg	10	11/3/2009 6:47:18 PM
Copper	62	5.7		mg/Kg	20	10/30/2009 4:36:42 PM
Iron	14000	950		mg/Kg	1000	11/4/2009 11:16:38 AM
Lead	46	4.8		mg/Kg	20	10/30/2009 4:36:42 PM
Magnesium	8000	480		mg/Kg	20	10/30/2009 4:36:42 PM
Manganese	78	1.9		mg/Kg	20	10/30/2009 4:36:42 PM
Nickel	120	9.5		mg/Kg	20	10/30/2009 4:36:42 PM
Potassium	ND	950		mg/Kg	20	10/30/2009 4:36:42 PM
Selenium	ND	24		mg/Kg	10	11/3/2009 6:47:18 PM
Silver	ND	4.8		mg/Kg	20	10/30/2009 4:36:42 PM
Sodium	3300	480		mg/Kg	20	10/30/2009 4:36:42 PM
Thallium	ND	48		mg/Kg	20	10/30/2009 4:36:42 PM
Vanadium	540	48		mg/Kg	20	10/30/2009 4:36:42 PM
Zinc	1700	120		mg/Kg	50	10/30/2009 4:49:41 PM
EPA METHOD 6010B: TCLP METALS						Analyst: RAGS
Arsenic	ND	5.0		mg/L	1	10/29/2009 10:41:11 AM
Barium	ND	100		mg/L	1	10/29/2009 10:41:11 AM
Cadmium	ND	1.0		mg/L	1	10/29/2009 10:41:11 AM
Chromium	ND	5.0		mg/L	1	10/29/2009 10:41:11 AM
Lead	ND	5.0		mg/L	1	10/29/2009 10:41:11 AM
Selenium	ND	1.0		mg/L	1	10/29/2009 10:41:11 AM
Silver	ND	5.0		mg/L	1	10/29/2009 10:41:11 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Aniline	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Nov-09

CLIENT: Western Refining Southwest, Inc.
 Lab Order: 0910440
 Project: Waste Streams 10-22-09
 Lab ID: 0910440-01

Client Sample ID: FCC fines
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 Date Received: 10/23/2009
 Matrix: SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Anthracene	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Azobenzene	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Benzo(g,h,i)perylene	ND	0.50		mg/Kg	1	11/3/2009 4:06:55 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/3/2009 4:06:55 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/3/2009 4:06:55 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Carbazole	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/3/2009 4:06:55 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/3/2009 4:06:55 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/3/2009 4:06:55 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Chrysene	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/3/2009 4:06:55 PM
Di-n-octyl phthalate	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/3/2009 4:06:55 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/3/2009 4:06:55 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/3/2009 4:06:55 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/3/2009 4:06:55 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/3/2009 4:06:55 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/3/2009 4:06:55 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/3/2009 4:06:55 PM
Fluoranthene	ND	0.25		mg/Kg	1	11/3/2009 4:06:55 PM
Fluorene	ND	0.50		mg/Kg	1	11/3/2009 4:06:55 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Nov-09

CLIENT: Western Refining Southwest, Inc.
Lab Order: 0910440
Project: Waste Streams 10-22-09
Lab ID: 0910440-01

Client Sample ID: FCC fines
Collection Date: 10/22/2009 10:40:00 AM
Date Received: 10/23/2009
Matrix: SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Indeno(1,2,3-cd)pyrene	ND	0.25		mg/Kg	1	11/3/2009 4:06:55 PM
Isophorone	ND	0.50		mg/Kg	1	11/3/2009 4:06:55 PM
2-Methylnaphthalene	ND	0.25		mg/Kg	1	11/3/2009 4:06:55 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/3/2009 4:06:55 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Naphthalene	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
4-Nitroaniline	ND	0.25		mg/Kg	1	11/3/2009 4:06:55 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/3/2009 4:06:55 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/3/2009 4:06:55 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Phenol	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Pyrene	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Pyridine	ND	0.50		mg/Kg	1	11/3/2009 4:06:55 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/3/2009 4:06:55 PM
Surr: 2,4,6-Tribromophenol	126	35.5-141		%REC	1	11/3/2009 4:06:55 PM
Surr: 2-Fluorobiphenyl	74.5	30.4-128		%REC	1	11/3/2009 4:06:55 PM
Surr: 2-Fluorophenol	73.4	28.1-129		%REC	1	11/3/2009 4:06:55 PM
Surr: 4-Terphenyl-d14	63.1	34.6-151		%REC	1	11/3/2009 4:06:55 PM
Surr: Nitrobenzene-d5	75.6	26.5-122		%REC	1	11/3/2009 4:06:55 PM
Surr: Phenol-d5	75.6	37.6-118		%REC	1	11/3/2009 4:06:55 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Nov-09

CLIENT:	Western Refining Southwest, Inc.	Client Sample ID:	Precip fines
Lab Order:	0910440	Collection Date:	10/22/2009 10:30:00 AM
Project:	Waste Streams 10-22-09	Date Received:	10/23/2009
Lab ID:	0910440-02	Matrix:	SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 7471: MERCURY						Analyst: SNV
Mercury	ND	0.033		mg/Kg	1	11/3/2009 3:52:51 PM
MERCURY, TCLP						Analyst: IC
Mercury	ND	0.020		mg/L	1	10/29/2009 2:46:50 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Aluminum	76000	15000		mg/Kg	5000	10/30/2009 5:20:26 PM
Antimony	ND	49		mg/Kg	20	10/30/2009 4:22:01 PM
Arsenic	200	49		mg/Kg	20	10/30/2009 4:22:01 PM
Barium	260	2.0		mg/Kg	20	10/30/2009 4:22:01 PM
Beryllium	ND	2.9		mg/Kg	20	10/30/2009 4:22:01 PM
Cadmium	ND	2.0		mg/Kg	20	10/30/2009 4:22:01 PM
Calcium	6600	490		mg/Kg	20	10/30/2009 4:22:01 PM
Chromium	48	5.9		mg/Kg	20	10/30/2009 4:22:01 PM
Cobalt	6.1	5.9		mg/Kg	20	11/3/2009 7:16:26 PM
Copper	120	5.9		mg/Kg	20	10/30/2009 4:22:01 PM
Iron	36000	980		mg/Kg	1000	11/4/2009 11:25:49 AM
Lead	30	4.9		mg/Kg	20	10/30/2009 4:22:01 PM
Magnesium	43000	490		mg/Kg	20	10/30/2009 4:22:01 PM
Manganese	180	2.0		mg/Kg	20	10/30/2009 4:22:01 PM
Nickel	220	9.8		mg/Kg	20	10/30/2009 4:22:01 PM
Potassium	ND	980		mg/Kg	20	10/30/2009 4:22:01 PM
Selenium	ND	49		mg/Kg	20	11/3/2009 7:16:26 PM
Silver	ND	4.9		mg/Kg	20	10/30/2009 4:22:01 PM
Sodium	2600	490		mg/Kg	20	10/30/2009 4:22:01 PM
Thallium	ND	49		mg/Kg	20	10/30/2009 4:22:01 PM
Vanadium	2400	240		mg/Kg	100	10/30/2009 5:06:03 PM
Zinc	1700	240		mg/Kg	100	10/30/2009 5:06:03 PM
EPA METHOD 6010B: TCLP METALS						Analyst: RAGS
Arsenic	ND	5.0		mg/L	10	10/29/2009 11:52:05 AM
Barium	ND	100		mg/L	10	10/29/2009 11:52:05 AM
Cadmium	ND	1.0		mg/L	10	10/29/2009 11:52:05 AM
Chromium	ND	5.0		mg/L	10	10/29/2009 11:52:05 AM
Lead	ND	5.0		mg/L	10	10/29/2009 11:52:05 AM
Selenium	ND	1.0		mg/L	10	10/29/2009 11:52:05 AM
Silver	ND	5.0		mg/L	10	10/29/2009 11:52:05 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Aniline	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Nov-09

CLIENT: Western Refining Southwest, Inc.
Lab Order: 0910440
Project: Waste Streams 10-22-09
Lab ID: 0910440-02

Client Sample ID: Precip fines
Collection Date: 10/22/2009 10:30:00 AM
Date Received: 10/23/2009
Matrix: SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Anthracene	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Azobenzene	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Benzo(g,h,i)perylene	ND	0.50		mg/Kg	1	11/3/2009 4:36:56 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Benzoic acid	0.58	0.50		mg/Kg	1	11/3/2009 4:36:56 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/3/2009 4:36:56 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Carbazole	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/3/2009 4:36:56 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/3/2009 4:36:56 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/3/2009 4:36:56 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Chrysene	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/3/2009 4:36:56 PM
Di-n-octyl phthalate	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/3/2009 4:36:56 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/3/2009 4:36:56 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/3/2009 4:36:56 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/3/2009 4:36:56 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/3/2009 4:36:56 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/3/2009 4:36:56 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/3/2009 4:36:56 PM
Fluoranthene	ND	0.25		mg/Kg	1	11/3/2009 4:36:56 PM
Fluorene	ND	0.50		mg/Kg	1	11/3/2009 4:36:56 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM

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 Lab ID: 0910440-02 Matrix: SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Indeno(1,2,3-cd)pyrene	ND	0.25		mg/Kg	1	11/3/2009 4:36:56 PM
Isophorone	ND	0.50		mg/Kg	1	11/3/2009 4:36:56 PM
2-Methylnaphthalene	ND	0.25		mg/Kg	1	11/3/2009 4:36:56 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/3/2009 4:36:56 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Naphthalene	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
4-Nitroaniline	ND	0.25		mg/Kg	1	11/3/2009 4:36:56 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/3/2009 4:36:56 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/3/2009 4:36:56 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Phenol	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Pyrene	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Pyridine	ND	0.50		mg/Kg	1	11/3/2009 4:36:56 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/3/2009 4:36:56 PM
Surr: 2,4,6-Tribromophenol	81.3	35.5-141		%REC	1	11/3/2009 4:36:56 PM
Surr: 2-Fluorobiphenyl	59.1	30.4-128		%REC	1	11/3/2009 4:36:56 PM
Surr: 2-Fluorophenol	58.0	28.1-129		%REC	1	11/3/2009 4:36:56 PM
Surr: 4-Terphenyl-d14	48.1	34.6-151		%REC	1	11/3/2009 4:36:56 PM
Surr: Nitrobenzene-d5	60.1	26.5-122		%REC	1	11/3/2009 4:36:56 PM
Surr: Phenol-d5	60.5	37.6-118		%REC	1	11/3/2009 4:36:56 PM

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



LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 0910440
Lab ID: B09102074-001
Client Sample ID: 0910440-01B, FCC Fines

Report Date: 10/30/09
Collection Date: 10/22/09 10:40
Date Received: 10/27/09
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
IGNITABILITY							
Flash Point (Ignitability)	>200	°F		30		SW1010M	10/28/09 15:30 / jh
CORROSIVITY							
pH of Soil and Waste	6.54	s.u.		0.10		SW9045D	10/30/09 12:00 / jh
REACTIVITY							
Cyanide, Reactive	ND	mg/kg		0.05	250	SW846 Ch 7	10/28/09 11:38 / kjp
Sulfide, Reactive	ND	mg/kg		20	500	SW846 Ch 7	10/28/09 08:00 / pwc

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

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



LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
 Project: 0910440
 Lab ID: B09102074-002
 Client Sample ID: 0910440-02B, Precip Fines

Report Date: 10/30/09
 Collection Date: 10/22/09 10:30
 Date Received: 10/27/09
 Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
IGNITABILITY							
Flash Point (Ignitability)	>200	°F		30		SW1010M	10/28/09 15:30 / jh
CORROSIVITY							
pH of Soil and Waste	4.10	s.u.		0.10		SW9045D	10/30/09 12:00 / jh
REACTIVITY							
Cyanide, Reactive	ND	mg/kg		0.05	250	SW846 Ch 7	10/28/09 11:40 / kjp
Sulfide, Reactive	ND	mg/kg		20	500	SW846 Ch 7	10/28/09 08:00 / pwc

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

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



QA/QC Summary Report

Client: Hall Environmental
 Project: 0910440

Report Date: 10/30/09
 Work Order: B09102074

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW1010M Batch: R138167									
Sample ID: LCS-R138167	Laboratory Control Sample				Run: PENSKY MARTEN CLOSED C		10/28/09 15:30		
Flash Point (Ignitability)	89.8	°F	30	100	98	102			
Method: SW846.Ch 7 Batch: 42322									
Sample ID: MB-42322	Method Blank				Run: AUTOAN201-B_091028A		10/28/09 11:44		
Cyanide, Reactive	ND	mg/kg	0.05						
Method: SW846.Ch 7 Batch: R138131									
Sample ID: MB-R138131	Method Blank				Run: MISC-HZW_091028C		10/28/09 08:00		
Sulfide, Reactive	ND	mg/kg	10						
Sample ID: LCS-R138131	Laboratory Control Sample				Run: MISC-HZW_091028C		10/28/09 08:00		
Sulfide, Reactive	30	mg/kg	20	104	50	150			
Method: SW9045D Analytical Run: PH METER_091030B									
Sample ID: ICV	Initial Calibration Verification Standard				Run: PH METER_091030B		10/30/09 12:00		
pH of Soil and Waste	4.02	s.u.	0.10	100	98	102			
Method: SW9045D Batch: R138279									
Sample ID: B09102330-001ADUP	Sample Duplicate				Run: PH METER_091030B		10/30/09 12:00		
pH of Soil and Waste	7.00	s.u.	0.10				0.7	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Inc.
 Project: Waste Streams 10-22-09

Work Order: 0910440

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

Sample ID: mb-20469

MBLK

Batch ID: 20469 Analysis Date: 11/3/2009 11:51:27 AM

Acenaphthene	ND	mg/Kg	0.20
Acenaphthylene	ND	mg/Kg	0.20
Aniline	ND	mg/Kg	0.20
Anthracene	ND	mg/Kg	0.20
Azobenzene	ND	mg/Kg	0.20
Benz(a)anthracene	ND	mg/Kg	0.20
Benzo(a)pyrene	ND	mg/Kg	0.20
Benzo(b)fluoranthene	ND	mg/Kg	0.20
Benzo(g,h,i)perylene	ND	mg/Kg	0.50
Benzo(k)fluoranthene	ND	mg/Kg	0.20
Benzoic acid	ND	mg/Kg	0.50
Benzyl alcohol	ND	mg/Kg	0.20
Bis(2-chloroethoxy)methane	ND	mg/Kg	0.20
Bis(2-chloroethyl)ether	ND	mg/Kg	0.20
Bis(2-chloroisopropyl)ether	ND	mg/Kg	0.20
Bis(2-ethylhexyl)phthalate	ND	mg/Kg	0.50
4-Bromophenyl phenyl ether	ND	mg/Kg	0.20
Butyl benzyl phthalate	ND	mg/Kg	0.20
Carbazole	ND	mg/Kg	0.20
4-Chloro-3-methylphenol	ND	mg/Kg	0.50
4-Chloroaniline	ND	mg/Kg	0.50
2-Chloronaphthalene	ND	mg/Kg	0.25
2-Chlorophenol	ND	mg/Kg	0.20
4-Chlorophenyl phenyl ether	ND	mg/Kg	0.20
Chrysene	ND	mg/Kg	0.20
Di-n-butyl phthalate	ND	mg/Kg	0.50
Di-n-octyl phthalate	ND	mg/Kg	0.20
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	0.40
2,4-Dimethylphenol	ND	mg/Kg	0.30
4,6-Dinitro-2-methylphenol	ND	mg/Kg	0.50
2,4-Dinitrophenol	ND	mg/Kg	0.40
2,4-Dinitrotoluene	ND	mg/Kg	0.50
2,6-Dinitrotoluene	ND	mg/Kg	0.50
Fluoranthene	ND	mg/Kg	0.25
Fluorene	ND	mg/Kg	0.50
Hexachlorobenzene	ND	mg/Kg	0.20

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Inc.
 Project: Waste Streams 10-22-09

Work Order: 0910440

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

Sample ID: mb-20469

MBLK

Batch ID: 20469 Analysis Date: 11/3/2009 11:51:27 AM

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	0.40								
Phenanthrene	ND	mg/Kg	0.20								
Phenol	ND	mg/Kg	0.20								
Pyrene	ND	mg/Kg	0.20								
Pyridine	ND	mg/Kg	0.50								
1,2,4-Trichlorobenzene	ND	mg/Kg	0.20								
2,4,5-Trichlorophenol	ND	mg/Kg	0.20								
2,4,6-Trichlorophenol	ND	mg/Kg	0.20								

Sample ID: Ics-20469

LCS

Batch ID: 20469 Analysis Date: 11/3/2009 1:07:17 PM

Acenaphthene	1.200	mg/Kg	0.20	1.67	0	71.8	42.5	90			
4-Chloro-3-methylphenol	2.642	mg/Kg	0.50	3.33	0	79.3	39.6	101			
2-Chlorophenol	2.403	mg/Kg	0.20	3.33	0	72.2	40.1	96.7			
1,4-Dichlorobenzene	1.191	mg/Kg	0.20	1.67	0	71.3	34.6	95.3			
2,4-Dinitrotoluene	1.453	mg/Kg	0.50	1.67	0	87.0	37.1	101			
N-Nitrosodi-n-propylamine	1.181	mg/Kg	0.20	1.67	0	70.7	33.3	103			
4-Nitrophenol	2.636	mg/Kg	0.20	3.33	0	79.2	32.7	125			
Pentachlorophenol	2.670	mg/Kg	0.40	3.33	0	80.2	35.5	99.3			
Phenol	2.348	mg/Kg	0.20	3.33	0	70.5	35.5	104			
Pyrene	1.061	mg/Kg	0.20	1.67	0	63.5	34.4	90.6			
1,2,4-Trichlorobenzene	1.217	mg/Kg	0.20	1.67	0	72.9	38.5	95			

Method: EPA Method 7471: Mercury

Sample ID: MB-20496

MBLK

Batch ID: 20496 Analysis Date: 11/3/2009 3:04:25 PM

Mercury ND mg/Kg 0.033

Sample ID: LCS-20496

LCS

Batch ID: 20496 Analysis Date: 11/3/2009 3:06:08 PM

Mercury 0.1678 mg/Kg 0.033 0.167 0 101 80 120

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Inc.
Project: Waste Streams 10-22-09

Work Order: 0910440

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: MERCURY, TCLP											
Sample ID: MB-20461		<i>MBLK</i>									
Mercury	ND	mg/L	0.020								
Sample ID: Fluid #1 Check #305		<i>MBLK</i>									
Mercury	ND	mg/L	0.020								
Sample ID: LCS-20461		<i>LCS</i>									
Mercury	ND	mg/L	0.020	0.005	0	102	80	120			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Inc.
 Project: Waste Streams 10-22-09

Work Order: 0910440

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

Sample ID: MB-20468 MBLK Batch ID: 20468 Analysis Date: 10/30/2009 2:08:46 PM

Aluminum	ND	mg/Kg	3.0
Antimony	ND	mg/Kg	2.5
Arsenic	ND	mg/Kg	2.5
Barium	ND	mg/Kg	0.10
Beryllium	ND	mg/Kg	0.15
Cadmium	ND	mg/Kg	0.10
Calcium	ND	mg/Kg	25
Chromium	ND	mg/Kg	0.30
Copper	ND	mg/Kg	0.30
Lead	ND	mg/Kg	0.25
Magnesium	ND	mg/Kg	25
Manganese	ND	mg/Kg	0.10
Nickel	ND	mg/Kg	0.50
Potassium	ND	mg/Kg	50
Silver	ND	mg/Kg	0.25
Sodium	ND	mg/Kg	25
Thallium	ND	mg/Kg	2.5
Vanadium	ND	mg/Kg	2.5
Zinc	ND	mg/Kg	2.5

Sample ID: MB-20468 MBLK Batch ID: 20468 Analysis Date: 11/3/2009 6:13:36 PM

Aluminum	ND	mg/Kg	3.0
Cobalt	ND	mg/Kg	0.30
Iron	ND	mg/Kg	1.0
Selenium	ND	mg/Kg	2.5

Sample ID: LCS-20468 LCS Batch ID: 20468 Analysis Date: 10/30/2009 2:11:37 PM

Aluminum	26.23	mg/Kg	3.0	25	0.3656	103	80	120
Antimony	23.69	mg/Kg	2.5	25	0	94.8	80	120
Arsenic	24.52	mg/Kg	2.5	25	0	98.1	80	120
Barium	23.57	mg/Kg	0.10	25	0	94.3	80	120
Beryllium	25.32	mg/Kg	0.15	25	0	101	80	120
Cadmium	24.22	mg/Kg	0.10	25	0	96.9	80	120
Calcium	2425	mg/Kg	25	2500	0	97.0	80	120
Chromium	24.17	mg/Kg	0.30	25	0	96.7	80	120
Copper	24.71	mg/Kg	0.30	25	0.1135	98.4	80	120
Lead	23.50	mg/Kg	0.25	25	0	94.0	80	120
Magnesium	2438	mg/Kg	25	2500	0	97.5	80	120
Manganese	23.54	mg/Kg	0.10	25	0.0257	94.1	80	120
Nickel	23.27	mg/Kg	0.50	25	0.0574	92.8	80	120
Potassium	2509	mg/Kg	50	2500	0	100	80	120
Silver	24.63	mg/Kg	0.25	25	0.0974	98.1	80	120
Sodium	2576	mg/Kg	25	2500	0	103	80	120
Thallium	23.63	mg/Kg	2.5	25	0	94.5	80	120
Vanadium	24.95	mg/Kg	2.5	25	0	99.8	80	120
Zinc	23.41	mg/Kg	2.5	25	0	93.7	80	120

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Inc.
 Project: Waste Streams 10-22-09

Work Order: 0910440

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 6010B: Soil Metals											
Sample ID:	LCS-20468	LCS					Batch ID: 20468	Analysis Date: 11/3/2009 6:16:26 PM			
Aluminum	27.49	mg/Kg	3.0	25	0.6762	107	80	120			
Cobalt	23.33	mg/Kg	0.30	25	0	93.3	80	120			
Iron	25.80	mg/Kg	1.0	25	0	103	80	120			
Selenium	23.91	mg/Kg	2.5	25	0	95.7	80	120			

Method: EPA Method 6010B: TCLP Metals											
Sample ID:	MB-20451	MBLK					Batch ID: 20451	Analysis Date: 10/29/2009 9:54:41 AM			
Arsenic	ND	mg/L	5.0								
Barium	ND	mg/L	100								
Cadmium	ND	mg/L	1.0								
Chromium	ND	mg/L	5.0								
Lead	ND	mg/L	5.0								
Selenium	ND	mg/L	1.0								
Silver	ND	mg/L	5.0								

Sample ID:	LCS-20451	LCS					Batch ID: 20451	Analysis Date: 10/29/2009 9:59:31 AM			
Arsenic	ND	mg/L	5.0	0.5	0	106	80	120			
Barium	ND	mg/L	100	0.5	0.0013	99.4	80	120			
Cadmium	ND	mg/L	1.0	0.5	0	105	80	120			
Chromium	ND	mg/L	5.0	0.5	0	99.1	80	120			
Lead	ND	mg/L	5.0	0.5	0	98.1	80	120			
Selenium	ND	mg/L	1.0	0.5	0	109	80	120			
Silver	ND	mg/L	5.0	0.5	0.0018	106	80	120			

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING SOUT

Date Received:

10/23/2009

Work Order Number 0910440

Received by: JB

Checklist completed by:

[Signature] 10/23/09
Signature Date

Sample ID labels checked by:

[Initials]
Initials

Matrix:

Carrier name UPS

- | | | | | |
|---|--|------------------------------|---|--------------------------------------|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | |
| Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | Not Shipped <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Water - VOA vials have zero headspace? | No VOA vials submitted <input checked="" type="checkbox"/> | Yes <input type="checkbox"/> | No <input type="checkbox"/> | |
| Water - Preservation labels on bottle and cap match? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> | |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> | |

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

Container/Temp Blank temperature?

14.1°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Western Refining

Mailing Address: #50 CR 4990
Bloomfield, NM 87413

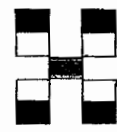
Phone #: 505-632-4161
email or Fax#: 505-632-3911

QA/QC Package:
 Standard Level 4 (Full Validation)
 Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush

Project Name: Waste Streams 10-22-09
 Project #:

Project Manager:
 Sampler: Cindy
 On Site: Yes No
 Sample Temperature: 71/72



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals Tc, Pb, P, Ni, As, S	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	SPEC TOTALS	TABLETALS (Analyte List)	Air Bubbles (Y/N)	
10-22-09	10:40	Solid	FCC fines	2-8oz Jars	—	09110-140							X						X	X	X
10-22-09	10:30	Solid	precip fines	2-8oz Jars	—								X						X	X	X

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
10-22-09	2:00	Robert Krakow	[Signature]	10-23-09		
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 noted on the analytical report.