KINDER MORGAN
ENERGY PARTNERS, L.P.

SFPP, L.P.
Operating Partnership

August 15, 2012

California Regional Water Quality Control Board
Los Angeles Region
320 W. 4th Street, Suite 200
Los Angeles, California 90013

Re: Effluent Monitoring Report
April through July 2012
SFPP, L.P.
15306 Norwalk Boulevard, Norwalk, California
(NPDES No. CA0063509, CI No. 7497)

Attention: Information Technology Unit

In reference to the subject National Pollutant Discharge Elimination System (NPDES) permit, please find enclosed the second calendar quarter 2012 self-monitoring report for the subject discharge.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Executed on the 15th day of August 2012.
at 10:00 a.m.

_____ (signature)

Stephen T. Defibaugh (printed name)

Remediation Project Manager (title)

CH2M HILL
1000 Wilshire Blvd.
21st Floor
Los Angeles, CA 90017
Tel 213.538.1388
Fax 213.538.1399

August 15, 2012

437810.A1.05

Mr. Stephen Defibaugh
Kinder Morgan Energy Partners, L.P.
1100 Town and Country Road
Orange, California 92868

Subject: Effluent Monitoring Report, April 1 to June 30, 2012 (Second Quarter 2012)
SFPP Norwalk Pump Station, 15306 Norwalk Boulevard, Norwalk, California
(NPDES No. CA0063509, CI No. 7497)

Dear Mr. Defibaugh:

This report has been prepared by CH2M HILL, on behalf of SFPP, L.P. (SFPP), an operating partnership of Kinder Morgan Energy Partners, L.P. (KMEP), to summarize National Pollutant Discharge Elimination System (NPDES) monitoring related to the discharge of treated groundwater from SFPP's product recovery and groundwater extraction (GWE) system. This system is installed at the SFPP Norwalk Pump Station located within the Defense Fuel Support Point Norwalk, at 15306 Norwalk Boulevard, Norwalk, California (the site).

SFPP performed certain operations, maintenance, and monitoring tasks on the product recovery and GWE systems. SFPP retained CH2M HILL to prepare this report based on the NPDES monitoring performed by SFPP. This report describes NPDES monitoring activities during the period of April 1 through June 30, 2012.

Remediation System

The remediation system at the site consists of soil vapor extraction (SVE) and extraction of free product and/or groundwater (total fluids extraction [TFE]) for product recovery, GWE for hydraulic control, and treatment of extracted soil vapors and groundwater. SVE is performed using a blower to remove soil vapors at a rate of up to 2,500 standard cubic feet per minute (scfm) from up to 33 SVE wells. The extracted vapors are conveyed to a knockout tank that separates entrained moisture from the soil vapors. Soil vapors are then treated in a catalytic oxidizer prior to emission to the atmosphere. Operation of the SVE and treatment system is conducted in accordance with Permit to Operate No. F13759 issued by the South Coast Air Quality Management District.

The free product and GWE portion of the system consists of 20 extraction wells that are located in the south-central part of the site and five extraction wells that are located in the southeastern part of the site. Six extraction wells in the south-central area (MW-SF-3, MW-SF-12, MW-SF-14, MW-SF-15, MW-SF-16, and GMW-O-21) and four wells in the southeastern area (GMW-36, GMW-O-15, GMW-O-18, and GMW-SF-9) are currently equipped with pneumatically operated top-loading pumps. The West Side Barrier (WSB) GWE system was shut down in August 2008 based on the reduced lateral extent and low concentrations of volatile organic compounds (VOCs) west of the site.

Free product and groundwater recovered by pneumatically operated top-loading total fluids pumps in the south-central and southeastern parts of the site along with the liquid condensate from the knockout tank are piped to an oil-water separator (OWS). Free product, if any, from the OWS is collected in a storage tank and recycled at an offsite location. Water from the OWS is treated using liquid-phase granular activated carbon (LGAC). Treated water is routed through an onsite 3,000-gallon equalization tank. Two fluidized bed bioreactors (FBBRs) installed downstream of the equalization tank treat fuel oxygenates such as tertiary butyl alcohol (TBA) and methyl tertiary butyl ether (MTBE). The treated groundwater then passes through polishing LGAC units prior to discharge in accordance with the NPDES permit (No. CA0063509, CI No. 7497).

Summary of Quarterly Operations

Approximately 1,609,376 gallons of groundwater was extracted during the second quarter 2012. This total includes groundwater extracted from the south-central and southeastern areas. No water was extracted from the WSB area. Table 1 summarizes the average daily flow rate during the reporting period. Remediation of the south-central and southeastern areas was performed throughout the quarter, with the following exceptions:

- On April 9, 2012, the TFE/GWE system was turned off to facilitate gauging of the monitoring and extraction wells (under static conditions) for the second quarter 2012 semiannual groundwater monitoring event. The TFE/GWE system was restarted on April 18, 2012.
- On April 23, 2012, the TFE/GWE system was off on arrival. The 300 kilovolt-ampere (kVA) transformer feeder was tripped on April 21, 2012, at approximately 12:31 a.m. The feeder was reset and power was restored. The two FBBRs also shut down during the power outage; therefore, the system was not turned on until the bioreactors were evaluated and confirmed to be operational. On April 24, 2012, it was determined that the biomass in the FBBRs survived the power outage; therefore, the system was restarted.
- On May 1, 2012, the TFE/GWE system was shut down for approximately 7 hours to perform the electrical upgrades to the TFE/GWE control panel. The system was restarted the same day.
- On May 17, 23, and 31, and June 19 and 22, 2012, the TFE/GWE system was down due to clogged bag filters downstream of the OWS and transfer tank. The bag filters were replaced and the TFE/GWE system was restarted shortly thereafter.

Routine Effluent Monitoring

Effluent water samples were collected pursuant to the Waste Discharge Requirements (WDRs) under Order No. R4-2011-0095. Samples were collected at the Order-designated monitoring point EFF-001 (Remediation System Effluent).

Samples were transported to Advanced Technology Laboratories (ATL) in Las Vegas, Nevada, for analysis. ATL is certified by the National Environmental Laboratory Accreditation Program and the California Department of Health Services Environmental Laboratory Accreditation Program. The samples were analyzed in accordance with current United States Environmental Protection Agency (EPA) guidelines or as specified in the WDRs for the site. Analytical results for the monthly and quarterly effluent monitoring are summarized in Table 2. Analytical results for the remaining priority pollutants are summarized in Table 3. Remaining priority pollutants are required to be sampled from the remediation system effluent on a quarterly basis for the initial 2 years of the NPDES permit. After the initial 2 years, remaining priority pollutants are to be monitored on an annual basis.

Laboratory analytical reports and chain-of-custody documents are included in Appendix A.

Summary of Compliance Results

As shown in Table 2, the results of the monthly and quarterly effluent monitoring indicate that all discharge limitations were met during the reporting period.

Waste Hauling

Four 55-gallon drums of nonhazardous bag filters and four 55-gallon drums of nonhazardous bioreactor sludge were removed from the site on April 16, 2012, by Environmental Logistics, Inc. (140 Monte Avenue, Rialto, California 92316) and transported to Filter Recycling Services, Inc., at 180 Monte Avenue, Bloomington, California 92316.

Approximately 1,200 gallons of non-Resource Conservation and Recovery Act (RCRA) hazardous waste liquids were removed from the site on June 5, 2012, by Patriot Environmental Service (508 East E Street, Wilmington, California 90744). The waste was transported to Demenno/Kerdoon at 2000 North Alameda Street, Compton, California 90222.

Copies of the waste manifests are included in Appendix B.

Should you require any further information, please contact me at (714) 435-6017.

Sincerely,

CH2M HILL, Inc.

Vladimir Carino
Project Engineer

Attachments:

Table 1 – Effluent Flow Rate Measurements, Second Quarter 2012
Table 2 – NPDES Effluent Monitoring, Second Quarter 2012
Table 3 – NPDES Effluent Monitoring, Remaining Priority Pollutants
Appendix A – Laboratory Analytical Reports and Chain-of-Custody Documents
Appendix B – Waste Manifests

Tables

TABLE 1

Effluent Flow Rate Measurements[1], Second Quarter 2012

SFPP Norwalk Pump Station, Norwalk, California

Date	Average Flow Rate (gallons per day)
Discharge Limits [2]	
Maximum Daily	150,000
Results	
04/01/12	23,897
04/02/12	19,857
04/03/12	18,333
04/04/12	19,493
04/05/12	20,769
04/06/12	19,911
04/07/12	18,749
04/08/12	13,922
04/09/12	12,966
04/10/12	6,421
04/11/12	0
04/12/12	0
04/13/12	1
04/14/12	0
04/15/12	0
04/16/12	0
04/17/12	0
04/18/12	1
04/19/12	12,869
04/20/12	20,208
04/21/12	20,940
04/22/12	0
04/23/12	0
04/24/12	978
04/25/12	9,398
04/26/12	18,051
04/27/12	17,025
04/28/12	16,949
04/29/12	16,713
04/30/12	16,444
05/01/12	16,554
05/02/12	12,500
05/03/12	16,787
05/04/12	16,838
05/05/12	16,291
05/06/12	16,755
05/07/12	16,593
05/08/12	16,313
05/09/12	18,002
05/10/12	18,139
05/11/12	20,246
05/12/12	21,471
05/13/12	25,021
05/14/12	15,684
05/15/12	10,213
05/16/12	26,391
05/17/12	23,079

TABLE 1

Effluent Flow Rate Measurements[1], Second Quarter 2012

SFPP Norwalk Pump Station, Norwalk, California

Date	Average Flow Rate (gallons per day)
Discharge Limits [2]	
Maximum Daily	150,000
Results	
05/18/12	15,108
05/19/12	24,004
05/20/12	22,024
05/21/12	14,575
05/22/12	23,656
05/23/12	23,906
05/24/12	25,343
05/25/12	8,810
05/26/12	23,520
05/27/12	24,820
05/28/12	22,826
05/29/12	24,959
05/30/12	25,642
05/31/12	26,977
06/01/12	25,864
06/02/12	16,534
06/03/12	22,491
06/04/12	22,094
06/05/12	21,229
06/06/12	19,522
06/07/12	22,540
06/08/12	23,213
06/09/12	23,093
06/10/12	24,050
06/11/12	23,871
06/12/12	21,302
06/13/12	22,929
06/14/12	28,150
06/15/12	28,059
06/16/12	27,599
06/17/12	27,818
06/18/12	27,610
06/19/12	26,104
06/20/12	13,182
06/21/12	22,699
06/22/12	18,985
06/23/12	20,353
06/24/12	21,850
06/25/12	21,762
06/26/12	19,025
06/27/12	16,509
06/28/12	17,246
06/29/12	23,054
06/30/12	23,697

Notes

1. Data reported based on information provided by SFPP, L.P.
2. California Regional Water Quality Control Board Waste Discharge Requirements (WDRs).

TABLE 2

NPDES Effluent Monitoring, Second Quarter 2012

SFPP Norwalk Pump Station, Norwalk, California

Analyte	Sampling Frequency	Analytical Method	Units	MDL[4]	RL[4]	ML[1]	4/3/2012	4/24/2012	5/8/2012	6/12/2012	6/15/2012	Discharge Limits[2]	
												Monthly Average	Daily Maximum
Temperature	Monthly	--	°F	--	--	NE	--	78.1	82.2	--	72.7	**--**	**86**
Oil and Grease	Monthly	EPA 1664A	mg/L	1.2	4.3	NE	<1.2	--	<1.2	<1.2	--	**10**	**15**
TPH as gas (C4-C12)	Monthly	EPA 8015B	µg/L	8.5	100	NE	<8.5	--	<8.5	<8.5	--	**--**	**--**
TPH as Diesel (C13-C22)	Monthly	EPA 8015B	µg/L	13	51	NE	<13	--	<13	<13	--	**--**	**--**
TPH as Oil (C23+)	Monthly	EPA 8015B	µg/L	9.8	51	NE	32 J	--	<9.6	<9.8	--	**--**	**--**
Total TPH	Monthly	EPA 8015B	µg/L	13	100	NE	32 J	--	<13	<13	--	**NE**	**100**
Settleable Solids	Monthly	SM 2540F	mL/L/hr	0.1	0.1	NE	<0.1	--	<0.1	<0.1	--	**0.1**	**0.3**
Total Suspended Solids	Monthly	SM 2540D	mg/L	10	10	NE	<5.0	--	<5.0	<10	--	**50**	**75**
Phenolics	Monthly	EPA 420.1	µg/L	150	300	50	<150	--	<150	<150	--	**300**	**NE**
Benzene	Monthly	EPA 8260B	µg/L	0.11	1	2.0	<0.11	--	<0.11	<0.11	--	**1**	**NE**
1,1-Dichloroethane	Monthly	EPA 8260B	µg/L	0.13	0.5	1.0	<0.13	--	<0.13	<0.13	--	**5**	**NE**
1,2-Dichloroethane	Monthly	EPA 8260B	µg/L	0.10	0.5	2.0	<0.10	--	<0.10	<0.10	--	**0.5**	**NE**
Ethylbenzene	Monthly	EPA 8260B	µg/L	0.13	1	2.0	<0.13	--	<0.13	<0.13	--	**10**	**NE**
Toluene	Monthly	EPA 8260B	µg/L	0.082	2	2.0	<0.082	--	<0.082	<0.082	--	**10**	**NE**
Methyl tertiary-butyl ether	Monthly	EPA 8260B	µg/L	0.089	1	NE	<0.089	--	<0.089	<0.089	--	**NE**	**5.0**
Tertiary butyl alcohol	Monthly	EPA 8260B	µg/L	3	5	NE	<3.0	--	<3.0	<3.0	--	**NE**	**150**[3]
Total Xylenes	Monthly	EPA 8260B	µg/L	1.5	2	NE	<1.5	--	<1.5	<1.5	--	**10**	**NE**
Copper (total recoverable) (dry weather)	Monthly	EPA 200.8	µg/L	0.14	0.5	0.5	3.4	--	1.5	<0.14	--	**16**	**33**
Copper (total recoverable) (wet weather)	Monthly	EPA 200.8	µg/L	0.14	0.5	0.5	3.4	--	1.5	<0.14	--	**13**	**27**
Lead (total recoverable) (dry weather)	Monthly	EPA 200.8	µg/L	1.5	5	0.5	<1.5	--	3.8	<0.15	--	**8.2**	**15**
Lead (total recoverable) (wet weather)	Monthly	EPA 200.8	µg/L	1.5	5	0.5	<1.5	--	3.8	<0.15	--	**34**	**106**
Mercury (total recoverable)	Monthly	EPA 245.1	µg/L	0.026	0.05	0.2	<0.026	--	<0.026	<0.026	--	**0.051**	**0.14**
Selenium (total recoverable)	Monthly	EPA 200.8	µg/L	0.084	0.5	2.0	0.21 J	--	0.2 J	0.22 J	--	**3.4**	**9.2**
Thallium (total recoverable)	Monthly	EPA 200.8	µg/L	0.75	5	1.0	<0.75	--	<0.075	<0.075	--	**6.3**	**13**
Zinc (total recoverable) (wet weather)	Monthly	EPA 200.8	µg/L	1.3	10	1.0	34	--	3.7 J	3.1 J	--	**79**	**158**
Chromium VI	Monthly	EPA 7199	µg/L	0.014	0.2	0.5	<0.014	--	0.027 J	0.026 J	--	**8.1**	**16**
pH	Quarterly	--	s.u.	--	--	NE	--	7.2	7	--	7	**--**	**6.5/8.5**
Ammonia Nitrogen (as N)	Quarterly	SM-4500 NH3C	mg/L	0.03	0.1	NE	0.14	--	--	--	--	**NE**	**NE**
Di-isopropyl Ether	Quarterly	EPA 8260B	µg/L	0.12	1	NE	<0.12	--	--	--	--	**NE**	**NE**
Methylene Blue Active Substances	Quarterly	SM 5540C	µg/L	50	50	NE	<50	--	--	--	--	**NE**	**NE**
Tert-amyl-methyl Ether	Quarterly	EPA 8260B	µg/L	0.12	1	NE	<0.12	--	--	--	--	**NE**	**NE**
Turbidity	Quarterly	SM2130B	NTU	0.1	0.1	NE	0.1	--	--	--	--	**50**	**75**
Methyl ethyl ketone	Quarterly	EPA 8260B	µg/L	0.59	10	NE	<0.59	--	--	--	--	**50**	**NE**
Other Priority Pollutants	Quarterly	--	See Table 3	--	--	--	--	--	--	--	--	**NE**	**NE**

Notes

1. State Water Resources Control Board Policy for the Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California.
2. California Regional Water Quality Control Board Waste Discharge Requirements (WDRs).
3. 150 µg/L discharge limit for tertiary butyl alcohol is per Time Schedule Order
4. The highest MDL and RL during this reporting period is shown.

-- = not measured or not analyzed.

Abbreviations

BOD = biological oxygen demand (5 days at 20 degrees Celsius)
deg F = degrees Fahrenheit
DNQ = detected, but not quantified. Result is greater than or equal to the laboratory MDL but less than the ML (or RL if no ML is listed)
J = detected at a concentration below the RL and above the MDL. Reported value is estimated.
mg/L = milligrams per liter
µg/L = micrograms per liter
pg/L = picograms per liter
MDL = laboratory method detection limit
ML = minimum level. See note 1.

TABLE 3

NPDES Effluent Monitoring, Remaining Priority Pollutants

SFPP Norwalk Pump Station, Norwalk, California

Analyte	Analytical Method	Units	MDL	RL	4/3/2012	ML[1]
Antimony	EPA 200.8	µg/L	0.084	0.50	0.36 J	0.50
Arsenic	EPA 200.8	µg/L	0.035	0.10	23	2
Beryllium	EPA 200.8	µg/L	0.76	5.0	<0.76	0.50
Cadmium	EPA 200.8	µg/L	0.084	0.25	<0.084	0.25
Nickel	EPA 200.8	µg/L	0.17	1.0	15	1
Silver	EPA 200.8	µg/L	0.15	0.25	<0.15	0.25
Total Chromium	EPA 200.8	µg/L	0.17	0.50	<0.17	0.50
Chromium (III) (Total Cr - Cr VI)	Calculated	µg/L	--	--	<0.17	NA
Aroclor-1016	EPA 8082	µg/L	0.19	0.51	<0.19	0.5
Aroclor-1221	EPA 8082	µg/L	0.50	1.0	<0.50	0.5
Aroclor-1232	EPA 8082	µg/L	0.26	0.51	<0.26	0.5
Aroclor-1242	EPA 8082	µg/L	0.23	0.51	<0.23	0.5
Aroclor-1248	EPA 8082	µg/L	0.14	0.51	<0.14	0.5
Aroclor-1254	EPA 8082	µg/L	0.24	0.51	<0.24	0.5
Aroclor-1260	EPA 8082	µg/L	0.071	0.51	<0.071	0.5
4,4'-DDD	EPA 8081 A	µg/L	0.0051	0.051	<0.0051	0.05
4,4'-DDE	EPA 8081 A	µg/L	0.0051	0.051	<0.0051	0.05
4,4'-DDT	EPA 8081 A	µg/L	0.0051	0.051	<0.0051	0.01
Aldrin	EPA 8081 A	µg/L	0.0043	0.026	<0.0043	0.005
Alpha Endosulfan	EPA 8081 A	µg/L	0.0038	0.026	<0.0038	0.02
Alpha-BHC	EPA 8081 A	µg/L	0.0045	0.026	<0.0045	0.01
Beta Endosulfan	EPA 8081 A	µg/L	0.0046	0.051	<0.0046	0.01
Beta-BHC	EPA 8081 A	µg/L	0.0034	0.026	<0.0034	0.005
Chlordane	EPA 8081 A	µg/L	0.042	0.26	<0.042	0.1
Delta-BHC	EPA 8081 A	µg/L	0.0042	0.026	<0.0042	0.005
Dieldrin	EPA 8081 A	µg/L	0.0048	0.051	<0.0048	0.01
Endosulfan Sulfate	EPA 8081 A	µg/L	0.0067	0.051	<0.0067	0.05
Endrin	EPA 8081 A	µg/L	0.0035	0.051	<0.0035	0.01
Endrin Aldehyde	EPA 8081 A	µg/L	0.0043	0.051	<0.0043	0.01
Gamma-BHC	EPA 8081 A	µg/L	0.0043	0.026	<0.0043	0.02
Heptachlor	EPA 8081 A	µg/L	0.0050	0.026	<0.0050	0.01
Heptachlor Epoxide	EPA 8081 A	µg/L	0.0049	0.026	<0.0049	0.01
Toxaphene	EPA 8081 A	µg/L	0.27	2.6	<0.27	0.5
1,1,1-Trichloroethane	EPA 8260B	µg/L	0.14	1.0	<0.14	2
1,1,2,2-Tetrachloroethane	EPA 8260B	µg/L	0.20	1.0	<0.20	1
1,1,2-Trichloroethane	EPA 8260B	µg/L	0.18	1.0	<0.18	2
1,1-Dichloroethene	EPA 8260B	µg/L	0.18	1.0	<0.18	2
1,2,4-Trichlorobenzene	EPA 8260B	µg/L	0.082	1.0	<0.082	5
1,2-Dichlorobenzene	EPA 8260B	µg/L	0.095	1.0	<0.095	2
1,2-Dichloropropane	EPA 8260B	µg/L	0.17	1.0	<0.17	1
1,3-Dichlorobenzene	EPA 8260B	µg/L	0.094	1.0	<0.094	1
1,4-Dichlorobenzene	EPA 8260B	µg/L	0.069	1.0	<0.069	1
2-Chloroethyl Vinyl Ether	EPA 8260B	µg/L	0.14	1.0	<0.14	1
Acrolein	EPA 8260B	µg/L	4.3	20	<4.3	5
Acrylonitrile	EPA 8260B	µg/L	0.61	20	<0.61	2
Bromodichloromethane	EPA 8260B	µg/L	0.11	1.0	<0.11	2
Bromoform	EPA 8260B	µg/L	0.18	1.0	<0.18	2
Bromomethane	EPA 8260B	µg/L	0.14	1.0	<0.14	2
cis-1,3-Dichloropropene	EPA 8260B	µg/L	0.16	1.0	<0.16	2
Carbon Tetrachloride	EPA 8260B	µg/L	0.12	1.0	<0.12	2
Chlorobenzene	EPA 8260B	µg/L	0.11	1.0	<0.11	2
Chloroethane	EPA 8260B	µg/L	0.17	1.0	<0.17	2
Chloroform	EPA 8260B	µg/L	0.079	1.0	<0.079	2
Chloromethane	EPA 8260B	µg/L	0.19	1.0	<0.19	2
Dibromochloromethane	EPA 8260B	µg/L	0.16	1.0	<0.16	2
Hexachlorobutadiene	EPA 8260B	µg/L	0.20	1.0	<0.20	1
Methylene Chloride	EPA 8260B	µg/L	0.14	2.0	1.6 J	2
Naphthalene	EPA 8260B	µg/L	0.10	1.0	<0.10	1
trans-1,2-Dichloroethene	EPA 8260B	µg/L	0.13	1.0	<0.13	1
trans-1,3-Dichloropropene	EPA 8260B	µg/L	0.15	1.0	<0.15	2
Tetrachloroethene	EPA 8260B	µg/L	0.19	1.0	<0.19	2
Trichloroethene	EPA 8260B	µg/L	0.18	1.0	<0.18	2
Vinyl Chloride	EPA 8260B	µg/L	0.23	1.0	<0.23	2

TABLE 3

NPDES Effluent Monitoring, Remaining Priority Pollutants

SFPP Norwalk Pump Station, Norwalk, California

Analyte	Analytical Method	Units	MDL	RL	4/3/2012	ML[1]
1,2-Diphenylhydrazine	EPA 8270C	µg/L	2.9	10	<2.9	1
2,4,6-Trichlorophenol	EPA 8270C	µg/L	2.0	10	<2.0	10
2,4-Dichlorophenol	EPA 8270C	µg/L	1.7	10	<1.7	5
2,4-Dimethylphenol	EPA 8270C	µg/L	1.4	10	<1.4	2
2,4-Dinitrophenol	EPA 8270C	µg/L	2.2	51	<2.2	5
2,4-Dinitrotoluene	EPA 8270C	µg/L	2.3	10	<2.3	5
2,6-Dinitrotoluene	EPA 8270C	µg/L	2.4	10	<2.4	5
2-Chloronaphthalene	EPA 8270C	µg/L	1.9	10	<1.9	10
2-Chlorophenol	EPA 8270C	µg/L	1,6	10	<1.6	5
2-Nitrophenol	EPA 8270C	µg/L	2.0	10	<2.0	10
3,3'-Dichlorobenzidine	EPA 8270C	µg/L	5.7	20	<5.7	5
4,6-Dinitro-2-Methylphenol	EPA 8270C	µg/L	2.0	51	<2.0	5
4-Bromophenyl-Phenyl Ether	EPA 8270C	µg/L	2.7	10	<2.7	5
4-Chloro-3-Methylphenol	EPA 8270C	µg/L	1.9	51	<1.9	1
4-Chlorophenyl-Phenyl Ether	EPA 8270C	µg/L	2.4	10	<2.4	5
4-Nitrophenol	EPA 8270C	µg/L	3.2	51	<3.2	10
Acenaphthene	EPA 8270C	µg/L	2.1	10	<2.1	1
Acenaphthylene	EPA 8270C	µg/L	2.3	10	<2.3	10
Anthracene	EPA 8270C	µg/L	2.6	10	<2.6	10
Benzidine	EPA 8270C	µg/L	8.0	51	<8.0	5
Benzo (a) Anthracene	EPA 8270C	µg/L	2.8	10	<2.8	5
Benzo (a) Pyrene	EPA 8270C	µg/L	2.6	10	<2.6	10
Benzo (b) Fluoranthene	EPA 8270C	µg/L	4.9	10	<4.9	10
Benzo (g,h,i) Perylene	EPA 8270C	µg/L	2.8	10	<2.8	5
Benzo (k) Fluoranthene	EPA 8270C	µg/L	2.7	10	<2.7	10
Bis(2-Chloroethoxy) Methane	EPA 8270C	µg/L	2.0	10	<2.0	5
Bis(2-Chloroethyl) Ether	EPA 8270C	µg/L	2.1	10	<2.1	1
Bis(2-Chloroisopropyl) Ether	EPA 8270C	µg/L	2.6	10	<2.6	2
Bis(2-Ethylhexyl) Phthalate	EPA 8270C	µg/L	2.7	10	<2.7	5
Butyl Benzyl Phthalate	EPA 8270C	µg/L	2.7	10	<2.7	10
Chrysene	EPA 8270C	µg/L	2.7	10	<2.7	10
Dibenz (a,h) Anthracene	EPA 8270C	µg/L	2.8	10	<2.8	10
Diethyl Phthalate	EPA 8270C	µg/L	2.8	10	<2.8	2
Dimethyl Phthalate	EPA 8270C	µg/L	2.6	10	<2.6	2
Di-n-Butyl Phthalate	EPA 8270C	µg/L	3.1	10	<3.1	10
Di-n-Octyl Phthalate	EPA 8270C	µg/L	2.5	10	<2.5	10
Fluoranthene	EPA 8270C	µg/L	3.2	10	<3.2	1
Fluorene	EPA 8270C	µg/L	2.5	10	<2.5	10
Hexachlorobenzene	EPA 8270C	µg/L	2.4	10	<2.4	1
Hexachlorocyclopentadiene	EPA 8270C	µg/L	1.1	10	<1.1	5
Hexachloroethane	EPA 8270C	µg/L	1.5	10	<1.5	1
Indeno (1,2,3-c,d) Pyrene	EPA 8270C	µg/L	2.8	10	<2.8	10
Isophorone	EPA 8270C	µg/L	2.5	10	<2.5	1
Nitrobenzene	EPA 8270C	µg/L	1.8	10	<1.8	1
N-Nitrosodimethylamine	EPA 8270C	µg/L	2.0	51	<2.0	5
N-Nitroso-di-n-propylamine	EPA 8270C	µg/L	2.5	10	<2.5	5
N-Nitrosodiphenylamine	EPA 8270C	µg/L	2.5	10	<2.5	1
Pentachlorophenol	EPA 8270C	µg/L	1.8	51	<1.8	5
Phenanthrene	EPA 8270C	µg/L	2.7	10	<2.7	5
Phenol	EPA 8270C	µg/L	1.9	10	<1.9	1
Pyrene	EPA 8270C	µg/L	3.1	10	<3.1	10
2,3,7,8-TCDD	EPA 8290	pg/L	1.2	50	<1.2	NE
Asbestos	EPA 600 94 134, 100.1	MFL	0.2	0.2	<0.2	NE
Cyanide (Total)	SM 4500 CN-E	mg/L	0.006	0.01	<0.006	NE

Note

1. State Water Resources Control Board Policy for the Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California.

Abbreviations

DNQ = detected, but not quantified. Result is greater than or equal to the laboratory MDL but less than the ML (or RL if no ML is listed)
J = detected at a concentration below the RL and above the MDL. Reported value is estimated.
MDL = laboratory method detection limit
ML = minimum level
mg/L = milligrams per liter
µg/L = micrograms per liter
< = not-detected above the MDL
NE = not established
MFL = millions of fibers per liter
pg/L = picograms per liter
RL = laboratory reporting limit

Appendix A
Laboratory Analytical Reports and Chain-of-Custody Documents

April 13, 2012

Daniel Jablonski
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612

TEL: (213)228-8271
FAX: (510) 622-9129

CA-ELAP No.:2676
NV Cert. No.:NV-009222007A

Workorder No.: N007608

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on April 03, 2012 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

for Jose Tenorio Jr.
Laboratory Director

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Samples were analyzed within method holding time.

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Subcontracted Analyses:

Cyanide , Phenols, Settleable Matter and Surfactants were subcontracted to Advanced Technology Laboratories-Signal Hill, CA .

Asbestos was subcontracted to EMS Laboratories-Pasadena, CA .

2,3,7,8-TCDD was subcontracted to APPL,Inc.-Clovis,CA.

Analytical Comments for EPA 200.8:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Silver and Copper possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

RPD for Matrix Spike (MS)/Matrix Spike Duplicate (MSD) is outside criteria for Silver ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Analytical Comments for EPA 8015B_GRO:

Matrix Spike Duplicate (MSD) is outside recovery criteria possibly due to matrix interference. The

Advanced Technology Laboratories, Inc. *3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691*

associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 8260B:

Laboratory Control Sample (LCS) recovery bias high for Acrylonitrile. Sample result was non- detect (ND) for this analyte, therefore reanalysis was not necessary.

RPD for Matrix Spike (MS)/Matrix Spike Duplicate (MSD) is outside criteria for Naphthalene ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Analytical Comments for EPA 8270C:

Laboratory Control Sample (LCS) recovery bias low for Hexachlorocyclopentadiene. Re-extraction was not possible due to limited sample.

RPD for Matrix Spike (MS)/Matrix Spike Duplicate (MSD) is outside criteria for Bis(2-chloroethyl)ether ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Advanced Technology Laboratories, Inc.
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Advanced Technology Laboratories, Inc.

Date: *13-Apr-12*

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N007608
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N007608-001A	EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	4/3/2012	
N007608-001B	EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	4/3/2012	
N007608-001C	EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	4/3/2012	
N007608-001D	EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	4/3/2012	
N007608-001E	EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	4/3/2012	
N007608-001F	EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	4/3/2012	
N007608-001G	EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	4/3/2012	
N007608-001H	EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	4/3/2012	
N007608-001I	EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	4/3/2012	
N007608-001J	EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	4/3/2012	
N007608-001K	EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	4/3/2012	
N007608-001L	EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	4/3/2012	
N007608-001M	EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	4/3/2012	
N007608-001N	EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	4/3/2012	
N007608-001O	EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	4/3/2012	
N007608-001P	EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	4/3/2012	
N007608-001Q	EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	4/3/2012	
N007608-001R	EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	4/3/2012	

Advanced Technology Laboratories, Inc.
3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Lab Order: N007608
Project: SFPP - Norwalk Site
Lab ID: N007608-001

Client Sample ID: EFF-04-03
Collection Date: 4/3/2012 11:40:00 AM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **WETCHEM_120404C**	QC Batch: **39446**			PrepDate:		**4/4/2012**	Analyst: **KAB**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	4/4/2012
TURBIDITY							
			SM 2130B				
RunID: **WETCHEM_120404B**	QC Batch: **R83815**			PrepDate:			Analyst: **KAB**
Turbidity	0.10	0.10	0.10		NTU	1	4/4/2012
AMMONIA-N							
			SM4500-NH3C				
RunID: **WETCHEM_120409A**	QC Batch: **39447**			PrepDate:		**4/6/2012**	Analyst: **KAB**
Nitrogen, Ammonia (As N)	0.14	0.030	0.10		mg/L	1	4/9/2012
OIL & GREASE							
			EPA 1664 _HEM				
RunID: **WETCHEM_120409C**	QC Batch: **39486**			PrepDate:		**4/9/2012**	Analyst: **QBM**
Oil & Grease	ND	1.2	4.3		mg/L	1	4/9/2012
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 3510C		**EPA 8270C**		
RunID: **MS4_120406A**	QC Batch: **39454**			PrepDate:		**4/5/2012**	Analyst: **MDM**
1,2-Diphenylhydrazine	ND	2.9	10		µg/L	1	4/6/2012 04:40 PM
2,4,6-Trichlorophenol	ND	2.0	10		µg/L	1	4/6/2012 04:40 PM
2,4-Dichlorophenol	ND	1.7	10		µg/L	1	4/6/2012 04:40 PM
2,4-Dimethylphenol	ND	1.4	10		µg/L	1	4/6/2012 04:40 PM
2,4-Dinitrophenol	ND	2.2	51		µg/L	1	4/6/2012 04:40 PM
2,4-Dinitrotoluene	ND	2.3	10		µg/L	1	4/6/2012 04:40 PM
2,6-Dinitrotoluene	ND	2.4	10		µg/L	1	4/6/2012 04:40 PM
2-Chloronaphthalene	ND	1.9	10		µg/L	1	4/6/2012 04:40 PM
2-Chlorophenol	ND	1.6	10		µg/L	1	4/6/2012 04:40 PM
2-Nitrophenol	ND	2.0	10		µg/L	1	4/6/2012 04:40 PM
3,3´-Dichlorobenzidine	ND	5.7	20		µg/L	1	4/6/2012 04:40 PM
4,6-Dinitro-2-methylphenol	ND	2.0	51		µg/L	1	4/6/2012 04:40 PM
4-Bromophenyl-phenylether	ND	2.7	10		µg/L	1	4/6/2012 04:40 PM
4-Chloro-3-methylphenol	ND	1.9	51		µg/L	1	4/6/2012 04:40 PM
4-Chlorophenyl-phenylether	ND	2.4	10		µg/L	1	4/6/2012 04:40 PM
4-Nitrophenol	ND	3.2	51		µg/L	1	4/6/2012 04:40 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified
E	Value above quantitation range
J	Analyte detected below quantitation limits
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out

CLIENT: CH2M HILL
Lab Order: N007608
Project: SFPP - Norwalk Site
Lab ID: N007608-001

Client Sample ID: EFF-04-03
Collection Date: 4/3/2012 11:40:00 AM
Matrix: WASTEWATER

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3510C **EPA 8270C**

RunID: **MS4_120406A** QC Batch: **39454** PrepDate: **4/5/2012** Analyst: **MDM**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
Acenaphthene	ND	2.1	10		µg/L	1	4/6/2012 04:40 PM
Acenaphthylene	ND	2.3	10		µg/L	1	4/6/2012 04:40 PM
Anthracene	ND	2.6	10		µg/L	1	4/6/2012 04:40 PM
Benzidine (M)	ND	8.0	51		µg/L	1	4/6/2012 04:40 PM
Benzo(a)anthracene	ND	2.8	10		µg/L	1	4/6/2012 04:40 PM
Benzo(a)pyrene	ND	2.6	10		µg/L	1	4/6/2012 04:40 PM
Benzo(b)fluoranthene	ND	4.9	10		µg/L	1	4/6/2012 04:40 PM
Benzo(g,h,i)perylene	ND	2.8	10		µg/L	1	4/6/2012 04:40 PM
Benzo(k)fluoranthene	ND	2.7	10		µg/L	1	4/6/2012 04:40 PM
Bis(2-chloroethoxy)methane	ND	2.0	10		µg/L	1	4/6/2012 04:40 PM
Bis(2-chloroethyl)ether	ND	2.1	10		µg/L	1	4/6/2012 04:40 PM
Bis(2-chloroisopropyl)ether	ND	2.6	10		µg/L	1	4/6/2012 04:40 PM
Bis(2-ethylhexyl)phthalate	ND	2.7	10		µg/L	1	4/6/2012 04:40 PM
Butylbenzylphthalate	ND	2.7	10		µg/L	1	4/6/2012 04:40 PM
Chrysene	ND	2.7	10		µg/L	1	4/6/2012 04:40 PM
Di-n-butylphthalate	ND	3.1	10		µg/L	1	4/6/2012 04:40 PM
Di-n-octylphthalate	ND	2.5	10		µg/L	1	4/6/2012 04:40 PM
Dibenz(a,h)anthracene	ND	2.8	10		µg/L	1	4/6/2012 04:40 PM
Diethylphthalate	ND	2.8	10		µg/L	1	4/6/2012 04:40 PM
Dimethylphthalate	ND	2.6	10		µg/L	1	4/6/2012 04:40 PM
Fluoranthene	ND	3.2	10		µg/L	1	4/6/2012 04:40 PM
Fluorene	ND	2.5	10		µg/L	1	4/6/2012 04:40 PM
Hexachlorobenzene	ND	2.4	10		µg/L	1	4/6/2012 04:40 PM
Hexachlorocyclopentadiene	ND	1.1	10		µg/L	1	4/6/2012 04:40 PM
Hexachloroethane	ND	1.5	10		µg/L	1	4/6/2012 04:40 PM
Indeno(1,2,3-cd)pyrene	ND	2.8	10		µg/L	1	4/6/2012 04:40 PM
Isophorone	ND	2.5	10		µg/L	1	4/6/2012 04:40 PM
N-Nitrosodi-n-propylamine	ND	2.5	10		µg/L	1	4/6/2012 04:40 PM
N-Nitrosodimethylamine	ND	2.0	51		µg/L	1	4/6/2012 04:40 PM
N-Nitrosodiphenylamine	ND	2.5	10		µg/L	1	4/6/2012 04:40 PM
Nitrobenzene	ND	1.8	10		µg/L	1	4/6/2012 04:40 PM
Pentachlorophenol	ND	1.8	51		µg/L	1	4/6/2012 04:40 PM
Phenanthrene	ND	2.7	10		µg/L	1	4/6/2012 04:40 PM
Phenol	ND	1.9	10		µg/L	1	4/6/2012 04:40 PM
Pyrene	ND	3.1	10		µg/L	1	4/6/2012 04:40 PM
Surr: 1,2-Dichlorobenzene-d4	71.6	0	27-100		%REC	1	4/6/2012 04:40 PM

Qualifiers:

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	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT: CH2M HILL
Lab Order: N007608
Project: SFPP - Norwalk Site
Lab ID: N007608-001

Client Sample ID: EFF-04-03
Collection Date: 4/3/2012 11:40:00 AM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS							
	EPA 3510C				**EPA 8270C**		
RunID: **MS4_120406A**	QC Batch: **39454**				PrepDate:	**4/5/2012**	Analyst: **MDM**
Surr: 2,4,6-Tribromophenol	79.3	0	42-124		%REC	1	4/6/2012 04:40 PM
Surr: 2-Chlorophenol-d4	71.5	0	34-98		%REC	1	4/6/2012 04:40 PM
Surr: 2-Fluorobiphenyl	69.3	0	48-120		%REC	1	4/6/2012 04:40 PM
Surr: 2-Fluorophenol	55.3	0	20-120		%REC	1	4/6/2012 04:40 PM
Surr: 4-Terphenyl-d14	76.1	0	51-135		%REC	1	4/6/2012 04:40 PM
Surr: Nitrobenzene-d5	77.5	0	41-120		%REC	1	4/6/2012 04:40 PM
Surr: Phenol-d5	48.1	0	20-120		%REC	1	4/6/2012 04:40 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
					EPA 8260B		
RunID: **MS1_120405A**	QC Batch: **D12VW040**				PrepDate:		Analyst: **QBM**
1,1,1-Trichloroethane	ND	0.14	1.0		µg/L	1	4/5/2012 02:01 PM
1,1,2,2-Tetrachloroethane	ND	0.20	1.0		µg/L	1	4/5/2012 02:01 PM
1,1,2-Trichloroethane	ND	0.18	1.0		µg/L	1	4/5/2012 02:01 PM
1,1-Dichloroethane	ND	0.13	0.50		µg/L	1	4/5/2012 02:01 PM
1,1-Dichloroethene	ND	0.18	1.0		µg/L	1	4/5/2012 02:01 PM
1,2,4-Trichlorobenzene	ND	0.082	1.0		µg/L	1	4/5/2012 02:01 PM
1,2-Dichlorobenzene	ND	0.095	1.0		µg/L	1	4/5/2012 02:01 PM
1,2-Dichloroethane	ND	0.10	0.50		µg/L	1	4/5/2012 02:01 PM
1,2-Dichloropropane	ND	0.17	1.0		µg/L	1	4/5/2012 02:01 PM
1,3-Dichlorobenzene	ND	0.094	1.0		µg/L	1	4/5/2012 02:01 PM
1,4-Dichlorobenzene	ND	0.069	1.0		µg/L	1	4/5/2012 02:01 PM
2-Butanone	ND	0.59	10		µg/L	1	4/5/2012 02:01 PM
2-Chloroethyl vinyl ether	ND	0.14	1.0		µg/L	1	4/5/2012 08:04 PM
Acrolein	ND	4.3	20		µg/L	1	4/5/2012 02:01 PM
Acrylonitrile	ND	0.61	20		µg/L	1	4/5/2012 02:01 PM
Benzene	ND	0.11	1.0		µg/L	1	4/5/2012 02:01 PM
Bromodichloromethane	ND	0.11	1.0		µg/L	1	4/5/2012 02:01 PM
Bromoform	ND	0.18	1.0		µg/L	1	4/5/2012 02:01 PM
Bromomethane	ND	0.14	1.0		µg/L	1	4/5/2012 02:01 PM
Carbon tetrachloride	ND	0.12	1.0		µg/L	1	4/5/2012 02:01 PM
Chlorobenzene	ND	0.11	1.0		µg/L	1	4/5/2012 02:01 PM
Chloroethane	ND	0.17	1.0		µg/L	1	4/5/2012 02:01 PM
Chloroform	ND	0.079	1.0		µg/L	1	4/5/2012 02:01 PM
Chloromethane	ND	0.19	1.0		µg/L	1	4/5/2012 02:01 PM
cis-1,3-Dichloropropene	ND	0.16	1.0		µg/L	1	4/5/2012 02:01 PM

Qualifiers:

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	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT: CH2M HILL
Lab Order: N007608
Project: SFPP - Norwalk Site
Lab ID: N007608-001

Client Sample ID: EFF-04-03
Collection Date: 4/3/2012 11:40:00 AM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS1_120405A**	QC Batch: **D12VW040**			PrepDate:			Analyst: **QBM**
Di-isopropyl ether	ND	0.12	1.0		µg/L	1	4/5/2012 02:01 PM
Dibromochloromethane	ND	0.16	1.0		µg/L	1	4/5/2012 02:01 PM
Ethylbenzene	ND	0.13	1.0		µg/L	1	4/5/2012 02:01 PM
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	4/5/2012 02:01 PM
m,p-Xylene	ND	0.16	1.0		µg/L	1	4/5/2012 02:01 PM
Methylene chloride	1.6	0.14	2.0	J	µg/L	1	4/5/2012 02:01 PM
MTBE	ND	0.089	1.0		µg/L	1	4/5/2012 02:01 PM
Naphthalene	ND	0.10	1.0		µg/L	1	4/5/2012 02:01 PM
o-Xylene	ND	0.10	1.0		µg/L	1	4/5/2012 02:01 PM
Tert-amyl methyl ether	ND	0.12	1.0		µg/L	1	4/5/2012 02:01 PM
Tert-Butanol	ND	3.0	5.0		µg/L	1	4/5/2012 02:01 PM
Tetrachloroethene	ND	0.19	1.0		µg/L	1	4/5/2012 02:01 PM
Toluene	ND	0.082	2.0		µg/L	1	4/5/2012 02:01 PM
trans-1,2-Dichloroethene	ND	0.13	1.0		µg/L	1	4/5/2012 02:01 PM
trans-1,3-Dichloropropene	ND	0.15	1.0		µg/L	1	4/5/2012 02:01 PM
Trichloroethene	ND	0.18	1.0		µg/L	1	4/5/2012 02:01 PM
Vinyl chloride	ND	0.23	1.0		µg/L	1	4/5/2012 02:01 PM
Xylenes, Total	ND	1.5	2.0		µg/L	1	4/5/2012 02:01 PM
Surr: 1,2-Dichloroethane-d4	96.2	0	72-119		%REC	1	4/5/2012 08:04 PM
Surr: 1,2-Dichloroethane-d4	95.2	0	72-119		%REC	1	4/5/2012 02:01 PM
Surr: 4-Bromofluorobenzene	109	0	76-119		%REC	1	4/5/2012 02:01 PM
Surr: 4-Bromofluorobenzene	103	0	76-119		%REC	1	4/5/2012 08:04 PM
Surr: Dibromofluoromethane	101	0	85-115		%REC	1	4/5/2012 02:01 PM
Surr: Dibromofluoromethane	104	0	85-115		%REC	1	4/5/2012 08:04 PM
Surr: Toluene-d8	113	0	81-120		%REC	1	4/5/2012 02:01 PM
Surr: Toluene-d8	102	0	81-120		%REC	1	4/5/2012 08:04 PM
TPH-FUEL PRODUCT BY GC/FID							
	EPA 3510C		**EPA 8015B**				
RunID: **GC1_120406B**	QC Batch: **39455**			PrepDate:	**4/5/2012**		Analyst: **MDM**
TPH-Diesel (C13-C22)	ND	13	51		ug/L	1	4/6/2012 02:49 PM
TPH-Oil (C23-C36)	32	9.7	51	J	ug/L	1	4/6/2012 02:49 PM
Surr: Octacosane	71.2	0	26-152		%REC	1	4/6/2012 02:49 PM
Surr: p-Terphenyl	76.1	0	57-132		%REC	1	4/6/2012 02:49 PM

Qualifiers:

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S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out

CLIENT: CH2M HILL
Lab Order: N007608
Project: SFPP - Norwalk Site
Lab ID: N007608-001

Client Sample ID: EFF-04-03
Collection Date: 4/3/2012 11:40:00 AM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD							
	EPA 3510C			**EPA 8081A**			
RunID: **GC5_120406B**	QC Batch: **39456**				PrepDate:	**4/5/2012**	Analyst: **MDM**
4,4´-DDD	ND	0.0051	0.051		µg/L	1	4/6/2012 02:16 AM
4,4´-DDE	ND	0.0051	0.051		µg/L	1	4/6/2012 02:16 AM
4,4´-DDT	ND	0.0051	0.051		µg/L	1	4/6/2012 02:16 AM
Aldrin	ND	0.0043	0.026		µg/L	1	4/6/2012 02:16 AM
alpha-BHC	ND	0.0045	0.026		µg/L	1	4/6/2012 02:16 AM
alpha-Chlordane	ND	0.0050	0.026		µg/L	1	4/6/2012 02:16 AM
beta-BHC	ND	0.0034	0.026		µg/L	1	4/6/2012 02:16 AM
Chlordane	ND	0.042	0.26		µg/L	1	4/6/2012 02:16 AM
delta-BHC	ND	0.0042	0.026		µg/L	1	4/6/2012 02:16 AM
Dieldrin	ND	0.0048	0.051		µg/L	1	4/6/2012 02:16 AM
Endosulfan I	ND	0.0038	0.026		µg/L	1	4/6/2012 02:16 AM
Endosulfan II	ND	0.0046	0.051		µg/L	1	4/6/2012 02:16 AM
Endosulfan sulfate	ND	0.0067	0.051		µg/L	1	4/6/2012 02:16 AM
Endrin	ND	0.0035	0.051		µg/L	1	4/6/2012 02:16 AM
Endrin aldehyde	ND	0.0043	0.051		µg/L	1	4/6/2012 02:16 AM
gamma-BHC	ND	0.0043	0.026		µg/L	1	4/6/2012 02:16 AM
gamma-Chlordane	ND	0.0038	0.026		µg/L	1	4/6/2012 02:16 AM
Heptachlor	ND	0.0050	0.026		µg/L	1	4/6/2012 02:16 AM
Heptachlor epoxide	ND	0.0049	0.026		µg/L	1	4/6/2012 02:16 AM
Methoxychlor	ND	0.0036	0.26		µg/L	1	4/6/2012 02:16 AM
Toxaphene	ND	0.27	2.6		µg/L	1	4/6/2012 02:16 AM
Surr: Tetrachloro-m-xylene	83.3	0	33-138		%REC	1	4/6/2012 02:16 AM
Surr: Decachlorobiphenyl	103	0	29-135		%REC	1	4/6/2012 02:16 AM
PCBS BY GC/ECD							
	EPA 3510C			**EPA 8082**			
RunID: **GC5_120405A**	QC Batch: **39456**				PrepDate:	**4/5/2012**	Analyst: **MDM**
Aroclor 1016	ND	0.19	0.51		µg/L	1	4/5/2012 07:59 PM
Aroclor 1221	ND	0.50	1.0		µg/L	1	4/5/2012 07:59 PM
Aroclor 1232	ND	0.26	0.51		µg/L	1	4/5/2012 07:59 PM
Aroclor 1242	ND	0.23	0.51		µg/L	1	4/5/2012 07:59 PM
Aroclor 1248	ND	0.14	0.51		µg/L	1	4/5/2012 07:59 PM
Aroclor 1254	ND	0.24	0.51		µg/L	1	4/5/2012 07:59 PM
Aroclor 1260	ND	0.071	0.51		µg/L	1	4/5/2012 07:59 PM
Surr: Decachlorobiphenyl	87.5	0	29-133		%REC	1	4/5/2012 07:59 PM
Surr: Tetrachloro-m-xylene	87.6	0	50-120		%REC	1	4/5/2012 07:59 PM

Qualifiers:

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ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT: CH2M HILL
Lab Order: N007608
Project: SFPP - Norwalk Site
Lab ID: N007608-001

Client Sample ID: EFF-04-03
Collection Date: 4/3/2012 11:40:00 AM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID							
			EPA 8015B				
RunID: **GC4_120405A** QC Batch: **E12VW015**				PrepDate:			Analyst: **MCS**
TPH-Gasoline (C4-C12)	ND	8.5	100		µg/L	1	4/5/2012
Surr: Chlorobenzene - d5	113	0	74-138		%REC	1	4/5/2012
HEXAVALENT CHROMIUM BY IC							
			EPA 7199				
RunID: **IC1_120404A** QC Batch: **R83819**				PrepDate:			Analyst: **QBM**
Hexavalent Chromium	ND	0.014	0.20		µg/L	1	4/4/2012 10:57 AM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 245.1				
RunID: **AA1_120405B** QC Batch: **39448**				PrepDate:	**4/5/2012**		Analyst: **CEI**
Mercury	ND	0.026	0.050		µg/L	1	4/5/2012
ICP-MS METALS BY COLLISION/REACTION CELL							
			EPA 200.8				
RunID: **ICP7_120405A** QC Batch: **39443**				PrepDate:	**4/4/2012**		Analyst: **CEI**
Selenium	0.21	0.084	0.50	J	µg/L	1	4/5/2012 03:39 PM
ICPMS METALS							
			EPA 200.8				
RunID: **ICP7_120405A** QC Batch: **39443**				PrepDate:	**4/4/2012**		Analyst: **CEI**
Antimony	0.36	0.084	0.50	J	µg/L	1	4/5/2012 03:39 PM
Arsenic	23	0.035	0.10		µg/L	1	4/5/2012 03:39 PM
Beryllium	ND	0.76	5.0		µg/L	10	4/5/2012 04:18 PM
Cadmium	ND	0.084	0.25		µg/L	1	4/5/2012 03:39 PM
Chromium	ND	0.17	0.50		µg/L	1	4/5/2012 03:39 PM
Copper	3.4	0.14	0.50		µg/L	1	4/6/2012 11:26 AM
Lead	ND	1.5	5.0		µg/L	10	4/5/2012 04:18 PM
Nickel	15	0.17	1.0		µg/L	1	4/5/2012 03:39 PM
Silver	ND	0.15	0.25		µg/L	1	4/5/2012 03:39 PM
Thallium	ND	0.75	5.0		µg/L	10	4/5/2012 04:18 PM
Zinc	34	1.3	10		µg/L	1	4/5/2012 03:39 PM

Qualifiers:

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ND	Not Detected at the Reporting Limit
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E	Value above quantitation range
J	Analyte detected below quantitation limits
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: **MB-39446** SampType: **MBLK** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **4/4/2012** RunNo: **83839**
Client ID: **PBW** Batch ID: **39446** TestNo: **SM2540D** Analysis Date: **4/4/2012** SeqNo: **1380807**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10									

Sample ID: **LCS-39446** SampType: **LCS** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **4/4/2012** RunNo: **83839**
Client ID: **LCSW** Batch ID: **39446** TestNo: **SM2540D** Analysis Date: **4/4/2012** SeqNo: **1380808**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	994.000	10	1000	0	99.4	80	120				

Sample ID: **N007608-001E-DUP** SampType: **DUP** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **4/4/2012** RunNo: **83839**
Client ID: **ZZZZZZ** Batch ID: **39446** TestNo: **SM2540D** Analysis Date: **4/4/2012** SeqNo: **1380810**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	5.0						0	0	5	

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 1664_HEM_W

Sample ID: **MB-39486**	SampType: **MBLK**	TestCode: **1664_HEM_W**	Units: **mg/L**	Prep Date: **4/9/2012**	RunNo: **83905**
Client ID: **PBW**	Batch ID: **39486**	TestNo: **EPA 1664 _H**		Analysis Date: **4/9/2012**	SeqNo: **1382904**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease	ND	4.0									

Sample ID: **LCS-39486**	SampType: **LCS**	TestCode: **1664_HEM_W**	Units: **mg/L**	Prep Date: **4/9/2012**	RunNo: **83905**
Client ID: **LCSW**	Batch ID: **39486**	TestNo: **EPA 1664 _H**		Analysis Date: **4/9/2012**	SeqNo: **1382905**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease	32.700	4.0	40.00	0	81.8	78	114				

Sample ID: **N007608-001A-MS**	SampType: **MS**	TestCode: **1664_HEM_W**	Units: **mg/L**	Prep Date: **4/9/2012**	RunNo: **83905**
Client ID: **ZZZZZZ**	Batch ID: **39486**	TestNo: **EPA 1664 _H**		Analysis Date: **4/9/2012**	SeqNo: **1382907**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease	35.054	4.3	43.01	0	81.5	78	114				

Sample ID: **N007608-001A-MSD**	SampType: **MSD**	TestCode: **1664_HEM_W**	Units: **mg/L**	Prep Date: **4/9/2012**	RunNo: **83905**
Client ID: **ZZZZZZ**	Batch ID: **39486**	TestNo: **EPA 1664 _H**		Analysis Date: **4/9/2012**	SeqNo: **1382908**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease	35.269	4.3	43.01	0	82.0	78	114	35.05	0.612	18	

Qualifiers:

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_DRC

Sample ID: **MB-39443**	SampType: **MBLK**	TestCode: **200.8_W_DR**	Units: **µg/L**	Prep Date: **4/4/2012**	RunNo: **83846**
Client ID: **PBW**	Batch ID: **39443**	TestNo: **EPA 200.8**		Analysis Date: **4/5/2012**	SeqNo: **1381077**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	0.145	0.50									J

Sample ID: **LCS-39443**	SampType: **LCS**	TestCode: **200.8_W_DR**	Units: **µg/L**	Prep Date: **4/4/2012**	RunNo: **83846**
Client ID: **LCSW**	Batch ID: **39443**	TestNo: **EPA 200.8**		Analysis Date: **4/5/2012**	SeqNo: **1381078**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	8.695	0.50	10.00	0	87.0	85	115				

Sample ID: **N007608-001H-MS**	SampType: **MS**	TestCode: **200.8_W_DR**	Units: **µg/L**	Prep Date: **4/4/2012**	RunNo: **83846**
Client ID: **ZZZZZZ**	Batch ID: **39443**	TestNo: **EPA 200.8**		Analysis Date: **4/5/2012**	SeqNo: **1381084**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	9.522	0.50	10.00	0.2114	93.1	75	125				

Sample ID: **N007608-001H-MSD**	SampType: **MSD**	TestCode: **200.8_W_DR**	Units: **µg/L**	Prep Date: **4/4/2012**	RunNo: **83846**
Client ID: **ZZZZZZ**	Batch ID: **39443**	TestNo: **EPA 200.8**		Analysis Date: **4/5/2012**	SeqNo: **1381085**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	9.397	0.50	10.00	0.2114	91.9	75	125	9.522	1.32	20	

Qualifiers:

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: **MB-39443** SampType: **MBLK** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **4/4/2012** RunNo: **83846**
Client ID: **PBW** Batch ID: **39443** TestNo: **EPA 200.8** Analysis Date: **4/5/2012** SeqNo: **1381141**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.50									
Arsenic	ND	0.10									
Beryllium	ND	0.50									
Cadmium	ND	0.25									
Chromium	ND	0.50									
Lead	ND	0.50									
Nickel	ND	1.0									
Silver	ND	0.25									
Thallium	ND	0.50									
Zinc	ND	10									

Sample ID: **LCS-39443** SampType: **LCS** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **4/4/2012** RunNo: **83846**
Client ID: **LCSW** Batch ID: **39443** TestNo: **EPA 200.8** Analysis Date: **4/5/2012** SeqNo: **1381142**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	8.653	0.50	10.00	0	86.5	85	115				
Arsenic	8.891	0.10	10.00	0	88.9	85	115				
Beryllium	9.483	0.50	10.00	0	94.8	85	115				
Cadmium	9.131	0.25	10.00	0	91.3	85	115				
Chromium	9.132	0.50	10.00	0	91.3	85	115				
Lead	9.310	0.50	10.00	0	93.1	85	115				
Nickel	9.043	1.0	10.00	0	90.4	85	115				
Silver	9.869	0.25	10.00	0	98.7	85	115				
Thallium	9.277	0.50	10.00	0	92.8	85	115				
Zinc	89.912	10	100.0	0	89.9	85	115				

Sample ID: **N007608-001H-MS** SampType: **MS** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **4/4/2012** RunNo: **83846**
Client ID: **ZZZZZZ** Batch ID: **39443** TestNo: **EPA 200.8** Analysis Date: **4/5/2012** SeqNo: **1381148**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: **N007608-001H-MS** SampType: **MS** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **4/4/2012** RunNo: **83846**
Client ID: **ZZZZZZ** Batch ID: **39443** TestNo: **EPA 200.8** Analysis Date: **4/5/2012** SeqNo: **1381148**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	9.048	0.50	10.00	0.3591	86.9	75	125				
Arsenic	32.230	0.10	10.00	22.88	93.5	75	125				
Cadmium	8.625	0.25	10.00	0	86.3	75	125				
Chromium	8.903	0.50	10.00	0	89.0	75	125				
Nickel	23.306	1.0	10.00	15.04	82.6	75	125				
Silver	0.482	0.25	10.00	0	4.82	75	125				S
Zinc	120.491	10	100.0	34.09	86.4	75	125				

Sample ID: **N007608-001H-MSD** SampType: **MSD** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **4/4/2012** RunNo: **83846**
Client ID: **ZZZZZZ** Batch ID: **39443** TestNo: **EPA 200.8** Analysis Date: **4/5/2012** SeqNo: **1381149**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	8.987	0.50	10.00	0.3591	86.3	75	125	9.048	0.671	20	
Arsenic	32.377	0.10	10.00	22.88	95.0	75	125	32.23	0.454	20	
Cadmium	8.524	0.25	10.00	0	85.2	75	125	8.625	1.18	20	
Chromium	8.779	0.50	10.00	0	87.8	75	125	8.903	1.40	20	
Nickel	23.356	1.0	10.00	15.04	83.1	75	125	23.31	0.215	20	
Silver	9.056	0.25	10.00	0	90.6	75	125	0.4817	180	20	R
Zinc	118.885	10	100.0	34.09	84.8	75	125	120.5	1.34	20	

Sample ID: **N007608-001H-MS** SampType: **MS** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **4/4/2012** RunNo: **83846**
Client ID: **ZZZZZZ** Batch ID: **39443** TestNo: **EPA 200.8** Analysis Date: **4/5/2012** SeqNo: **1381153**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	10.366	5.0	10.00	0	104	75	125				
Lead	8.881	5.0	10.00	0	88.8	75	125				
Thallium	9.361	5.0	10.00	0	93.6	75	125				

Qualifiers:

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S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: **N007608-001H-MSD** SampType: **MSD** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **4/4/2012** RunNo: **83846**
Client ID: **ZZZZZZ** Batch ID: **39443** TestNo: **EPA 200.8** Analysis Date: **4/5/2012** SeqNo: **1381154**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	10.213	5.0	10.00	0	102	75	125	10.37	1.49	20	
Lead	8.857	5.0	10.00	0	88.6	75	125	8.881	0.262	20	
Thallium	9.404	5.0	10.00	0	94.0	75	125	9.361	0.450	20	

Sample ID: **MB-39443** SampType: **MBLK** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **4/4/2012** RunNo: **83859**
Client ID: **PBW** Batch ID: **39443** TestNo: **EPA 200.8** Analysis Date: **4/6/2012** SeqNo: **1381545**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	ND	0.50									

Sample ID: **LCS-39443** SampType: **LCS** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **4/4/2012** RunNo: **83859**
Client ID: **LCSW** Batch ID: **39443** TestNo: **EPA 200.8** Analysis Date: **4/6/2012** SeqNo: **1381546**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	9.347	0.50	10.00	0	93.5	85	115				

Sample ID: **N007608-001H-MS** SampType: **MS** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **4/4/2012** RunNo: **83859**
Client ID: **ZZZZZZ** Batch ID: **39443** TestNo: **EPA 200.8** Analysis Date: **4/6/2012** SeqNo: **1381550**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	10.695	0.50	10.00	3.418	72.8	75	125				S

Sample ID: **N007608-001H-MSD** SampType: **MSD** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **4/4/2012** RunNo: **83859**
Client ID: **ZZZZZZ** Batch ID: **39443** TestNo: **EPA 200.8** Analysis Date: **4/6/2012** SeqNo: **1381551**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	10.584	0.50	10.00	3.418	71.7	75	125	10.69	1.04	20	S

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 2130_W

Sample ID: **MB-R83815**	SampType: **MBLK**	TestCode: **2130_W**	Units: **NTU**	Prep Date:	RunNo: **83815**
Client ID: **PBW**	Batch ID: **R83815**	TestNo: **SM 2130B**		Analysis Date: **4/4/2012**	SeqNo: **1380068**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Turbidity	ND	0.10									

Sample ID: **N007608-001E-DUP**	SampType: **DUP**	TestCode: **2130_W**	Units: **NTU**	Prep Date:	RunNo: **83815**
Client ID: **ZZZZZZ**	Batch ID: **R83815**	TestNo: **SM 2130B**		Analysis Date: **4/4/2012**	SeqNo: **1380070**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Turbidity	0.100	0.10						0.1000	0	30	

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W_LL

Sample ID: **LCS-39448**	SampType: **LCS**	TestCode: **245.1_W_LL**	Units: **µg/L**	Prep Date: **4/5/2012**	RunNo: **83829**
Client ID: **LCSW**	Batch ID: **39448**	TestNo: **EPA 245.1**		Analysis Date: **4/5/2012**	SeqNo: **1380608**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.549	0.050	2.500	0	102	85	115				

Sample ID: **MB-39448**	SampType: **MBLK**	TestCode: **245.1_W_LL**	Units: **µg/L**	Prep Date: **4/5/2012**	RunNo: **83829**
Client ID: **PBW**	Batch ID: **39448**	TestNo: **EPA 245.1**		Analysis Date: **4/5/2012**	SeqNo: **1380609**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.050									

Sample ID: **N007608-001H-MS**	SampType: **MS**	TestCode: **245.1_W_LL**	Units: **µg/L**	Prep Date: **4/5/2012**	RunNo: **83829**
Client ID: **ZZZZZZ**	Batch ID: **39448**	TestNo: **EPA 245.1**		Analysis Date: **4/5/2012**	SeqNo: **1380611**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.515	0.050	2.500	0	101	75	125				

Sample ID: **N007608-001H-MSD**	SampType: **MSD**	TestCode: **245.1_W_LL**	Units: **µg/L**	Prep Date: **4/5/2012**	RunNo: **83829**
Client ID: **ZZZZZZ**	Batch ID: **39448**	TestNo: **EPA 245.1**		Analysis Date: **4/5/2012**	SeqNo: **1380612**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.541	0.050	2.500	0	102	75	125	2.515	1.04	20	

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 350.2_4500NH3C_W

Sample ID: **LCS-39447**	SampType: **LCS**	TestCode: **350.2_4500N**	Units: **mg/L**	Prep Date: **4/6/2012**	RunNo: **83857**
Client ID: **LCSW**	Batch ID: **39447**	TestNo: **SM4500-NH3**		Analysis Date: **4/9/2012**	SeqNo: **1381445**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia (As N)	1.086	0.10	1.000	0	109	80	120				

Sample ID: **MB-39447**	SampType: **MBLK**	TestCode: **350.2_4500N**	Units: **mg/L**	Prep Date: **4/6/2012**	RunNo: **83857**
Client ID: **PBW**	Batch ID: **39447**	TestNo: **SM4500-NH3**		Analysis Date: **4/9/2012**	SeqNo: **1381446**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia (As N)	ND	0.10									

Sample ID: **N007618-001D-DUP**	SampType: **DUP**	TestCode: **350.2_4500N**	Units: **mg/L**	Prep Date: **4/6/2012**	RunNo: **83857**
Client ID: **ZZZZZZ**	Batch ID: **39447**	TestNo: **SM4500-NH3**		Analysis Date: **4/9/2012**	SeqNo: **1381449**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia (As N)	0.147	0.10						0.1480	0.678	20	

Sample ID: **N007618-001D-MS**	SampType: **MS**	TestCode: **350.2_4500N**	Units: **mg/L**	Prep Date: **4/6/2012**	RunNo: **83857**
Client ID: **ZZZZZZ**	Batch ID: **39447**	TestNo: **SM4500-NH3**		Analysis Date: **4/9/2012**	SeqNo: **1381450**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia (As N)	2.120	0.10	2.000	0.1480	98.6	80	120				

Sample ID: **N007618-001D-MSD**	SampType: **MSD**	TestCode: **350.2_4500N**	Units: **mg/L**	Prep Date: **4/6/2012**	RunNo: **83857**
Client ID: **ZZZZZZ**	Batch ID: **39447**	TestNo: **SM4500-NH3**		Analysis Date: **4/9/2012**	SeqNo: **1381451**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia (As N)	2.121	0.10	2.000	0.1480	98.6	80	120	2.120	0.0472	20	

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 7199_WPGE

Sample ID: **MB-R83819**	SampType: **MBLK**	TestCode: **7199_WPGE**	Units: **µg/L**	Prep Date:	RunNo: **83819**
Client ID: **PBW**	Batch ID: **R83819**	TestNo: **EPA 7199**		Analysis Date: **4/4/2012**	SeqNo: **1380196**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **LCS-R83819**	SampType: **LCS**	TestCode: **7199_WPGE**	Units: **µg/L**	Prep Date:	RunNo: **83819**
Client ID: **LCSW**	Batch ID: **R83819**	TestNo: **EPA 7199**		Analysis Date: **4/4/2012**	SeqNo: **1380197**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.994	0.20	5.000	0	99.9	90	110				

Sample ID: **N007608-001IDUP**	SampType: **DUP**	TestCode: **7199_WPGE**	Units: **µg/L**	Prep Date:	RunNo: **83819**
Client ID: **ZZZZZZ**	Batch ID: **R83819**	TestNo: **EPA 7199**		Analysis Date: **4/4/2012**	SeqNo: **1380199**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N007608-001IMS**	SampType: **MS**	TestCode: **7199_WPGE**	Units: **µg/L**	Prep Date:	RunNo: **83819**
Client ID: **ZZZZZZ**	Batch ID: **R83819**	TestNo: **EPA 7199**		Analysis Date: **4/4/2012**	SeqNo: **1380200**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.988	0.20	1.000	0	98.8	85	115				

Sample ID: **N007607-001AMS**	SampType: **MS**	TestCode: **7199_WPGE**	Units: **µg/L**	Prep Date:	RunNo: **83819**
Client ID: **ZZZZZZ**	Batch ID: **R83819**	TestNo: **EPA 7199**		Analysis Date: **4/4/2012**	SeqNo: **1380202**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.096	0.20	1.000	0.09152	100	85	115				

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 7199_WPGE

Sample ID: **N007607-001AMSD** SampType: **MSD** TestCode: **7199_WPGE** Units: **µg/L** Prep Date: RunNo: **83819**
Client ID: **ZZZZZZ** Batch ID: **R83819** TestNo: **EPA 7199** Analysis Date: **4/4/2012** SeqNo: **1380203**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.075	0.20	1.000	0.09152	98.4	85	115	1.096	1.87	20	

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: **MB-39455** SampType: **MBLK** TestCode: **8015_W_FP_** Units: **ug/L** Prep Date: **4/5/2012** RunNo: **83853**
Client ID: **PBW** Batch ID: **39455** TestNo: **EPA 8015B** **EPA 3510C** Analysis Date: **4/6/2012** SeqNo: **1381236**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	50									
TPH-Oil (C23-C36)	ND	50									
Surr: Octacosane	64.781		80.00		81.0	26	152				
Surr: p-Terphenyl	68.187		80.00		85.2	57	132				

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GSFPP

Sample ID: **E120405LCS**	SampType: **LCS**	TestCode: **8015_W_GSF**	Units: **µg/L**	Prep Date:	RunNo: **83833**
Client ID: **LCSW**	Batch ID: **E12VW015**	TestNo: **EPA 8015B**		Analysis Date: **4/5/2012**	SeqNo: **1380625**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1195.000	100	1000	0	120	67	136				
Surr: Chlorobenzene - d5	53.895		50.00		108	74	138				

Sample ID: **E120405MB2**	SampType: **MBLK**	TestCode: **8015_W_GSF**	Units: **µg/L**	Prep Date:	RunNo: **83833**
Client ID: **PBW**	Batch ID: **E12VW015**	TestNo: **EPA 8015B**		Analysis Date: **4/5/2012**	SeqNo: **1380626**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	ND	100									
Surr: Chlorobenzene - d5	56.749		50.00		113	74	138				

Sample ID: **N007608-001BMS**	SampType: **MS**	TestCode: **8015_W_GSF**	Units: **µg/L**	Prep Date:	RunNo: **83833**
Client ID: **ZZZZZZ**	Batch ID: **E12VW015**	TestNo: **EPA 8015B**		Analysis Date: **4/5/2012**	SeqNo: **1380627**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1160.000	100	1000	0	116	67	136				
Surr: Chlorobenzene - d5	53.507		50.00		107	74	138				

Sample ID: **N007608-001BMSD**	SampType: **MSD**	TestCode: **8015_W_GSF**	Units: **µg/L**	Prep Date:	RunNo: **83833**
Client ID: **ZZZZZZ**	Batch ID: **E12VW015**	TestNo: **EPA 8015B**		Analysis Date: **4/5/2012**	SeqNo: **1380628**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1517.000	100	1000	0	152	67	136	1160	26.7	30	S
Surr: Chlorobenzene - d5	59.716		50.00		119	74	138		0	0	

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081_W_PGE

Sample ID: **N007608-001P-MSD** SampType: **MSD** TestCode: **8081_W_PGE** Units: **µg/L** Prep Date: **4/5/2012** RunNo: **83852**
Client ID: **ZZZZZZ** Batch ID: **39456** TestNo: **EPA 8081A** **EPA 3510C** Analysis Date: **4/6/2012** SeqNo: **1381223**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	0.420	0.050	0.5000	0	83.9	50	139	0.4365	3.91	30	
4,4´-DDE	0.434	0.050	0.5000	0	86.8	48	137	0.4414	1.70	30	
4,4´-DDT	0.443	0.050	0.5000	0	88.6	47	138	0.4512	1.84	30	
Aldrin	0.383	0.025	0.5000	0	76.6	42	138	0.4089	6.52	30	
alpha-BHC	0.393	0.025	0.5000	0	78.5	60	128	0.4153	5.59	30	
alpha-Chlordane	0.394	0.025	0.5000	0	78.8	63	123	0.4003	1.58	30	
beta-BHC	0.433	0.025	0.5000	0	86.6	66	126	0.4911	12.6	30	
delta-BHC	0.288	0.025	0.5000	0	57.5	46	136	0.2892	0.564	30	
Dieldrin	0.478	0.050	0.5000	0	95.7	62	129	0.4811	0.548	30	
Endosulfan I	0.439	0.025	0.5000	0	87.8	49	120	0.4346	1.06	30	
Endosulfan II	0.443	0.050	0.5000	0	88.6	42	130	0.4472	0.926	30	
Endosulfan sulfate	0.354	0.050	0.5000	0	70.9	54	137	0.3517	0.720	30	
Endrin	0.495	0.050	0.5000	0	99.0	56	134	0.5039	1.82	30	
Endrin aldehyde	0.480	0.050	0.5000	0	96.0	56	137	0.4886	1.82	30	
gamma-BHC	0.400	0.025	0.5000	0	80.0	30	146	0.4107	2.59	30	
gamma-Chlordane	0.410	0.025	0.5000	0	82.1	67	120	0.4175	1.71	30	
Heptachlor	0.399	0.025	0.5000	0	79.7	51	128	0.4155	4.15	30	
Heptachlor epoxide	0.412	0.025	0.5000	0	82.4	62	131	0.4172	1.29	30	
Methoxychlor	0.446	0.25	0.5000	0	89.1	56	150	0.4647	4.18	30	
Surr: Tetrachloro-m-xylene	0.398		0.5000		79.5	33	138		0	30	
Surr: Decachlorobiphenyl	0.485		0.5000		97.1	29	135		0	30	

Sample ID: **MB-39456** SampType: **MBLK** TestCode: **8081_W_PGE** Units: **µg/L** Prep Date: **4/5/2012** RunNo: **83852**
Client ID: **PBW** Batch ID: **39456** TestNo: **EPA 8081A** **EPA 3510C** Analysis Date: **4/6/2012** SeqNo: **1381224**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	ND	0.050									
4,4´-DDE	ND	0.050									
4,4´-DDT	ND	0.050									
Aldrin	ND	0.025									

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081_W_PGE

Sample ID: **MB-39456** SampType: **MBLK** TestCode: **8081_W_PGE** Units: **µg/L** Prep Date: **4/5/2012** RunNo: **83852**
Client ID: **PBW** Batch ID: **39456** TestNo: **EPA 8081A** **EPA 3510C** Analysis Date: **4/6/2012** SeqNo: **1381224**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	ND	0.025									
alpha-Chlordane	ND	0.025									
beta-BHC	ND	0.025									
Chlordane	ND	0.25									
delta-BHC	ND	0.025									
Dieldrin	ND	0.050									
Endosulfan I	ND	0.025									
Endosulfan II	ND	0.050									
Endosulfan sulfate	ND	0.050									
Endrin	ND	0.050									
Endrin aldehyde	ND	0.050									
gamma-BHC	ND	0.025									
gamma-Chlordane	ND	0.025									
Heptachlor	ND	0.025									
Heptachlor epoxide	ND	0.025									
Methoxychlor	ND	0.25									
Toxaphene	ND	2.5									
Surr: Tetrachloro-m-xylene	0.418		0.5000		83.6	33	138				
Surr: Decachlorobiphenyl	0.548		0.5000		110	29	135				

Sample ID: **LCS-39456_OCP** SampType: **LCS** TestCode: **8081_W_PGE** Units: **µg/L** Prep Date: **4/5/2012** RunNo: **83852**
Client ID: **LCSW** Batch ID: **39456** TestNo: **EPA 8081A** **EPA 3510C** Analysis Date: **4/6/2012** SeqNo: **1381227**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	0.481	0.050	0.5000	0	96.2	50	139				
4,4´-DDE	0.498	0.050	0.5000	0	99.6	48	137				
4,4´-DDT	0.520	0.050	0.5000	0	104	47	138				
Aldrin	0.462	0.025	0.5000	0	92.4	42	138				
alpha-BHC	0.498	0.025	0.5000	0	99.7	60	128				
alpha-Chlordane	0.458	0.025	0.5000	0	91.6	63	123				

Qualifiers:

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
R RPD outside accepted recovery limits
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081_W_PGE

Sample ID: **LCS-39456_OCP** SampType: **LCS** TestCode: **8081_W_PGE** Units: **µg/L** Prep Date: **4/5/2012** RunNo: **83852**
Client ID: **LCSW** Batch ID: **39456** TestNo: **EPA 8081A** **EPA 3510C** Analysis Date: **4/6/2012** SeqNo: **1381227**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
beta-BHC	0.506	0.025	0.5000	0	101	66	126				
delta-BHC	0.317	0.025	0.5000	0	63.3	46	136				
Dieldrin	0.525	0.050	0.5000	0	105	62	129				
Endosulfan I	0.492	0.025	0.5000	0	98.3	49	120				
Endosulfan II	0.512	0.050	0.5000	0	102	42	130				
Endosulfan sulfate	0.438	0.050	0.5000	0	87.6	54	137				
Endrin	0.587	0.050	0.5000	0	117	56	134				
Endrin aldehyde	0.547	0.050	0.5000	0	109	56	137				
gamma-BHC	0.559	0.025	0.5000	0	112	30	146				
gamma-Chlordane	0.476	0.025	0.5000	0	95.3	67	120				
Heptachlor	0.472	0.025	0.5000	0	94.5	51	128				
Heptachlor epoxide	0.470	0.025	0.5000	0	94.0	62	131				
Methoxychlor	0.597	0.25	0.5000	0	119	56	150				
Surr: Tetrachloro-m-xylene	0.511		0.5000		102	33	138				
Surr: Decachlorobiphenyl	0.554		0.5000		111	29	135				

Sample ID: **N007608-001P-MS** SampType: **MS** TestCode: **8081_W_PGE** Units: **µg/L** Prep Date: **4/5/2012** RunNo: **83852**
Client ID: **ZZZZZZ** Batch ID: **39456** TestNo: **EPA 8081A** **EPA 3510C** Analysis Date: **4/6/2012** SeqNo: **1381228**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	0.436	0.050	0.5000	0	87.3	50	139				
4,4´-DDE	0.441	0.050	0.5000	0	88.3	48	137				
4,4´-DDT	0.451	0.050	0.5000	0	90.2	47	138				
Aldrin	0.409	0.025	0.5000	0	81.8	42	138				
alpha-BHC	0.415	0.025	0.5000	0	83.1	60	128				
alpha-Chlordane	0.400	0.025	0.5000	0	80.1	63	123				
beta-BHC	0.491	0.025	0.5000	0	98.2	66	126				
delta-BHC	0.289	0.025	0.5000	0	57.8	46	136				
Dieldrin	0.481	0.050	0.5000	0	96.2	62	129				
Endosulfan I	0.435	0.025	0.5000	0	86.9	49	120				

Qualifiers:

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
R RPD outside accepted recovery limits
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081_W_PGE

Sample ID: **N007608-001P-MS** SampType: **MS** TestCode: **8081_W_PGE** Units: **µg/L** Prep Date: **4/5/2012** RunNo: **83852**
Client ID: **ZZZZZZ** Batch ID: **39456** TestNo: **EPA 8081A** **EPA 3510C** Analysis Date: **4/6/2012** SeqNo: **1381228**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Endosulfan II	0.447	0.050	0.5000	0	89.4	42	130				
Endosulfan sulfate	0.352	0.050	0.5000	0	70.3	54	137				
Endrin	0.504	0.050	0.5000	0	101	56	134				
Endrin aldehyde	0.489	0.050	0.5000	0	97.7	56	137				
gamma-BHC	0.411	0.025	0.5000	0	82.1	30	146				
gamma-Chlordane	0.418	0.025	0.5000	0	83.5	67	120				
Heptachlor	0.415	0.025	0.5000	0	83.1	51	128				
Heptachlor epoxide	0.417	0.025	0.5000	0	83.4	62	131				
Methoxychlor	0.465	0.25	0.5000	0	92.9	56	150				
Surr: Tetrachloro-m-xylene	0.417		0.5000		83.4	33	138				
Surr: Decachlorobiphenyl	0.487		0.5000		97.4	29	135				

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082_W_PGE

Sample ID: **LCS-39456**	SampType: **LCS**	TestCode: **8082_W_PGE**	Units: **µg/L**	Prep Date: **4/5/2012**	RunNo: **83840**
Client ID: **LCSW**	Batch ID: **39456**	TestNo: **EPA 8082**	**EPA 3510C**	Analysis Date: **4/5/2012**	SeqNo: **1380811**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	5.706	0.50	5.000	0	114	40	144				
Aroclor 1260	5.788	0.50	5.000	0	116	45	145				
Surr: Decachlorobiphenyl	0.544		0.5000		109	29	133				
Surr: Tetrachloro-m-xylene	0.548		0.5000		110	50	120				

Sample ID: **MB-39456**	SampType: **MBLK**	TestCode: **8082_W_PGE**	Units: **µg/L**	Prep Date: **4/5/2012**	RunNo: **83840**
Client ID: **PBW**	Batch ID: **39456**	TestNo: **EPA 8082**	**EPA 3510C**	Analysis Date: **4/5/2012**	SeqNo: **1380812**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.50									
Aroclor 1221	ND	1.0									
Aroclor 1232	ND	0.50									
Aroclor 1242	ND	0.50									
Aroclor 1248	ND	0.50									
Aroclor 1254	ND	0.50									
Aroclor 1260	ND	0.50									
Surr: Decachlorobiphenyl	0.474		0.5000		94.7	29	133				
Surr: Tetrachloro-m-xylene	0.436		0.5000		87.2	50	120				

Sample ID: **N007608-001P-MS**	SampType: **MS**	TestCode: **8082_W_PGE**	Units: **µg/L**	Prep Date: **4/5/2012**	RunNo: **83840**
Client ID: **ZZZZZZ**	Batch ID: **39456**	TestNo: **EPA 8082**	**EPA 3510C**	Analysis Date: **4/5/2012**	SeqNo: **1380815**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	4.703	0.50	5.000	0	94.1	40	144				
Aroclor 1260	4.398	0.50	5.000	0	88.0	45	145				
Surr: Decachlorobiphenyl	0.439		0.5000		87.8	29	133				
Surr: Tetrachloro-m-xylene	0.383		0.5000		76.6	50	120				

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082_W_PGE

Sample ID: **N007608-001P-MSD** SampType: **MSD** TestCode: **8082_W_PGE** Units: **µg/L** Prep Date: **4/5/2012** RunNo: **83840**
Client ID: **ZZZZZZ** Batch ID: **39456** TestNo: **EPA 8082** **EPA 3510C** Analysis Date: **4/5/2012** SeqNo: **1380816**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	5.161	0.50	5.000	0	103	40	144	4.703	9.28	30	
Aroclor 1260	5.163	0.50	5.000	0	103	45	145	4.398	16.0	30	
Surr: Decachlorobiphenyl	0.466		0.5000		93.3	29	133		0		
Surr: Tetrachloro-m-xylene	0.452		0.5000		90.4	50	120		0		

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **D120405LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **83830**
Client ID: **LCSW** Batch ID: **D12VW040** TestNo: **EPA 8260B** Analysis Date: **4/5/2012** SeqNo: **1380615**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	18.870	1.0	20.00	0	94.4	67	132				
1,1,2,2-Tetrachloroethane	19.550	1.0	20.00	0	97.8	63	128				
1,1,2-Trichloroethane	20.230	1.0	20.00	0	101	75	125				
1,1-Dichloroethane	17.880	0.50	20.00	0	89.4	69	133				
1,1-Dichloroethene	17.510	1.0	20.00	0	87.6	68	130				
1,2,4-Trichlorobenzene	21.660	1.0	20.00	0	108	66	134				
1,2-Dichlorobenzene	19.220	1.0	20.00	0	96.1	71	122				
1,2-Dichloroethane	18.860	0.50	20.00	0	94.3	69	132				
1,2-Dichloropropane	19.340	1.0	20.00	0	96.7	75	125				
1,3-Dichlorobenzene	19.390	1.0	20.00	0	97.0	75	124				
1,4-Dichlorobenzene	18.670	1.0	20.00	0	93.4	74	123				
2-Butanone	231.650	10	200.0	0	116	49	136				
Acrolein	171.170	20	200.0	0	85.6	75	125				
Acrylonitrile	257.190	20	200.0	0	129	75	125				S
Benzene	19.130	1.0	20.00	0	95.7	81	122				
Bromodichloromethane	20.390	1.0	20.00	0	102	76	121				
Bromoform	23.840	1.0	20.00	0	119	69	128				
Bromomethane	16.710	1.0	20.00	0	83.6	53	141				
Carbon tetrachloride	19.650	1.0	20.00	0	98.2	66	138				
Chlorobenzene	19.450	1.0	20.00	0	97.3	81	122				
Chloroethane	16.830	1.0	20.00	0	84.2	58	133				
Chloroform	18.530	1.0	20.00	0	92.6	69	128				
Chloromethane	17.430	1.0	20.00	0	87.2	56	131				
cis-1,3-Dichloropropene	19.820	1.0	20.00	0	99.1	69	131				
Di-isopropyl ether	17.860	1.0	20.00	0	89.3	70	130				
Dibromochloromethane	21.900	1.0	20.00	0	110	66	133				
Ethylbenzene	18.660	1.0	20.00	0	93.3	73	127				
Hexachlorobutadiene	20.160	1.0	20.00	0	101	67	131				
m,p-Xylene	38.710	1.0	40.00	0	96.8	76	128				
Methylene chloride	19.420	2.0	20.00	0	97.1	63	137				

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **D120405LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **83830**
Client ID: **LCSW** Batch ID: **D12VW040** TestNo: **EPA 8260B** Analysis Date: **4/5/2012** SeqNo: **1380615**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	15.640	1.0	20.00	0	78.2	65	123				
Naphthalene	21.770	1.0	20.00	0	109	54	138				
o-Xylene	19.920	1.0	20.00	0	99.6	80	121				
Tert-amyl methyl ether	17.650	1.0	20.00	0	88.2	70	130				
Tert-Butanol	98.830	5.0	100.0	0	98.8	70	130				
Tetrachloroethene	19.020	1.0	20.00	0	95.1	66	128				
Toluene	19.200	2.0	20.00	0	96.0	77	122				
trans-1,2-Dichloroethene	18.720	1.0	20.00	0	93.6	63	137				
trans-1,3-Dichloropropene	19.660	1.0	20.00	0	98.3	59	135				
Trichloroethene	19.340	1.0	20.00	0	96.7	70	127				
Vinyl chloride	17.320	1.0	20.00	0	86.6	50	134				
Xylenes, Total	58.630	2.0	60.00	0	97.7	75	125				
Surr: 1,2-Dichloroethane-d4	23.560		25.00		94.2	72	119				
Surr: 4-Bromofluorobenzene	25.410		25.00		102	76	119				
Surr: Dibromofluoromethane	25.220		25.00		101	85	115				
Surr: Toluene-d8	25.050		25.00		100	81	120				

Sample ID: **N007618-001LMS** SampType: **MS** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **83830**
Client ID: **ZZZZZZ** Batch ID: **D12VW040** TestNo: **EPA 8260B** Analysis Date: **4/5/2012** SeqNo: **1380616**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	19.350	1.0	20.00	0	96.8	67	132				
1,1,2,2-Tetrachloroethane	21.690	1.0	20.00	0	108	63	128				
1,1,2-Trichloroethane	21.160	1.0	20.00	0	106	75	125				
1,1-Dichloroethane	18.170	0.50	20.00	0	90.9	69	133				
1,1-Dichloroethene	17.570	1.0	20.00	0	87.9	68	130				
1,2,4-Trichlorobenzene	22.110	1.0	20.00	0	111	66	134				
1,2-Dichlorobenzene	19.910	1.0	20.00	0	99.6	71	122				
1,2-Dichloroethane	19.800	0.50	20.00	0	99.0	69	132				
1,2-Dichloropropane	20.130	1.0	20.00	0	101	75	125				

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N007618-001LMS** SampType: **MS** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **83830**
Client ID: **ZZZZZZ** Batch ID: **D12VW040** TestNo: **EPA 8260B** Analysis Date: **4/5/2012** SeqNo: **1380616**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	19.670	1.0	20.00	0	98.4	75	124				
1,4-Dichlorobenzene	19.340	1.0	20.00	0	96.7	74	123				
2-Butanone	169.810	10	200.0	0	84.9	49	136				
Acrolein	169.670	20	200.0	0	84.8	75	125				
Acrylonitrile	258.720	20	200.0	0	129	75	125				S
Benzene	19.700	1.0	20.00	0	98.5	81	122				
Bromodichloromethane	21.130	1.0	20.00	0	106	76	121				
Bromoform	25.310	1.0	20.00	0	127	69	128				
Bromomethane	17.390	1.0	20.00	0	87.0	53	141				
Carbon tetrachloride	20.010	1.0	20.00	0	100	66	138				
Chlorobenzene	19.750	1.0	20.00	0	98.8	81	122				
Chloroethane	16.800	1.0	20.00	0	84.0	58	133				
Chloroform	19.070	1.0	20.00	0	95.4	69	128				
Chloromethane	18.160	1.0	20.00	0	90.8	56	131				
cis-1,3-Dichloropropene	20.530	1.0	20.00	0	103	69	131				
Di-isopropyl ether	18.330	1.0	20.00	0	91.7	70	130				
Dibromochloromethane	21.890	1.0	20.00	0	109	66	133				
Ethylbenzene	18.470	1.0	20.00	0	92.4	73	127				
Hexachlorobutadiene	20.380	1.0	20.00	0	102	67	131				
m,p-Xylene	36.330	1.0	40.00	0	90.8	76	128				
Methylene chloride	19.100	2.0	20.00	0.6700	92.2	63	137				
MTBE	16.460	1.0	20.00	0	82.3	65	123				
Naphthalene	21.270	1.0	20.00	0	106	54	138				
o-Xylene	19.130	1.0	20.00	0	95.7	80	121				
Tert-amyl methyl ether	18.570	1.0	20.00	0	92.8	70	130				
Tert-Butanol	78.450	5.0	100.0	0	78.4	70	130				
Tetrachloroethene	19.030	1.0	20.00	0	95.2	66	128				
Toluene	19.300	2.0	20.00	0	96.5	77	122				
trans-1,2-Dichloroethene	18.710	1.0	20.00	0	93.6	63	137				
trans-1,3-Dichloropropene	20.570	1.0	20.00	0	103	59	135				

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N007618-001LMS** SampType: **MS** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **83830**
Client ID: **ZZZZZZ** Batch ID: **D12VW040** TestNo: **EPA 8260B** Analysis Date: **4/5/2012** SeqNo: **1380616**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	19.920	1.0	20.00	0	99.6	70	127				
Vinyl chloride	17.650	1.0	20.00	0	88.2	50	134				
Xylenes, Total	55.460	2.0	60.00	0	92.4	75	125				
Surr: 1,2-Dichloroethane-d4	24.640		25.00		98.6	72	119				
Surr: 4-Bromofluorobenzene	25.600		25.00		102	76	119				
Surr: Dibromofluoromethane	25.840		25.00		103	85	115				
Surr: Toluene-d8	25.140		25.00		101	81	120				

Sample ID: **N007618-001LMSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **83830**
Client ID: **ZZZZZZ** Batch ID: **D12VW040** TestNo: **EPA 8260B** Analysis Date: **4/5/2012** SeqNo: **1380617**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	19.850	1.0	20.00	0	99.2	67	132	19.35	2.55	20	
1,1,2,2-Tetrachloroethane	20.010	1.0	20.00	0	100	63	128	21.69	8.06	20	
1,1,2-Trichloroethane	20.260	1.0	20.00	0	101	75	125	21.16	4.35	20	
1,1-Dichloroethane	18.770	0.50	20.00	0	93.8	69	133	18.17	3.25	20	
1,1-Dichloroethene	17.000	1.0	20.00	0	85.0	68	130	17.57	3.30	20	
1,2,4-Trichlorobenzene	22.300	1.0	20.00	0	112	66	134	22.11	0.856	20	
1,2-Dichlorobenzene	20.270	1.0	20.00	0	101	71	122	19.91	1.79	20	
1,2-Dichloroethane	19.220	0.50	20.00	0	96.1	69	132	19.80	2.97	20	
1,2-Dichloropropane	20.170	1.0	20.00	0	101	75	125	20.13	0.199	20	
1,3-Dichlorobenzene	20.270	1.0	20.00	0	101	75	124	19.67	3.00	20	
1,4-Dichlorobenzene	19.710	1.0	20.00	0	98.6	74	123	19.34	1.90	20	
2-Butanone	161.010	10	200.0	0	80.5	49	136	169.8	5.32	20	
Acrolein	150.250	20	200.0	0	75.1	75	125	169.7	12.1	20	
Acrylonitrile	238.180	20	200.0	0	119	75	125	258.7	8.27	20	
Benzene	19.990	1.0	20.00	0	100	81	122	19.70	1.46	20	
Bromodichloromethane	20.690	1.0	20.00	0	103	76	121	21.13	2.10	20	
Bromoform	23.960	1.0	20.00	0	120	69	128	25.31	5.48	20	
Bromomethane	17.370	1.0	20.00	0	86.9	53	141	17.39	0.115	20	

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N007618-001LMSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **83830**
Client ID: **ZZZZZZ** Batch ID: **D12VW040** TestNo: **EPA 8260B** Analysis Date: **4/5/2012** SeqNo: **1380617**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon tetrachloride	20.490	1.0	20.00	0	102	66	138	20.01	2.37	20	
Chlorobenzene	19.730	1.0	20.00	0	98.6	81	122	19.75	0.101	20	
Chloroethane	17.350	1.0	20.00	0	86.8	58	133	16.80	3.22	20	
Chloroform	18.950	1.0	20.00	0	94.8	69	128	19.07	0.631	20	
Chloromethane	18.140	1.0	20.00	0	90.7	56	131	18.16	0.110	20	
cis-1,3-Dichloropropene	20.270	1.0	20.00	0	101	69	131	20.53	1.27	20	
Di-isopropyl ether	18.240	1.0	20.00	0	91.2	70	130	18.33	0.492	20	
Dibromochloromethane	22.110	1.0	20.00	0	111	66	133	21.89	1.00	20	
Ethylbenzene	18.400	1.0	20.00	0	92.0	73	127	18.47	0.380	20	
Hexachlorobutadiene	21.060	1.0	20.00	0	105	67	131	20.38	3.28	20	
m,p-Xylene	34.320	1.0	40.00	0	85.8	76	128	36.33	5.69	20	
Methylene chloride	19.620	2.0	20.00	0.6700	94.8	63	137	19.10	2.69	20	
MTBE	15.730	1.0	20.00	0	78.7	65	123	16.46	4.54	20	
Naphthalene	14.540	1.0	20.00	0	72.7	54	138	21.27	37.6	20	R
o-Xylene	18.390	1.0	20.00	0	92.0	80	121	19.13	3.94	20	
Tert-amyl methyl ether	17.880	1.0	20.00	0	89.4	70	130	18.57	3.79	20	
Tert-Butanol	69.850	5.0	100.0	0	69.8	70	130	78.45	11.6	20	S
Tetrachloroethene	19.850	1.0	20.00	0	99.2	66	128	19.03	4.22	20	
Toluene	19.110	2.0	20.00	0	95.6	77	122	19.30	0.989	20	
trans-1,2-Dichloroethene	18.920	1.0	20.00	0	94.6	63	137	18.71	1.12	20	
trans-1,3-Dichloropropene	19.850	1.0	20.00	0	99.2	59	135	20.57	3.56	20	
Trichloroethene	20.230	1.0	20.00	0	101	70	127	19.92	1.54	20	
Vinyl chloride	17.640	1.0	20.00	0	88.2	50	134	17.65	0.0567	20	
Xylenes, Total	52.710	2.0	60.00	0	87.9	75	125	55.46	5.08	20	
Surr: 1,2-Dichloroethane-d4	23.660		25.00		94.6	72	119		0		
Surr: 4-Bromofluorobenzene	25.600		25.00		102	76	119		0		
Surr: Dibromofluoromethane	25.160		25.00		101	85	115		0		
Surr: Toluene-d8	24.580		25.00		98.3	81	120		0		

Qualifiers:

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
R RPD outside accepted recovery limits
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **D120405MB2** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **83830**
Client ID: **PBW** Batch ID: **D12VW040** TestNo: **EPA 8260B** Analysis Date: **4/5/2012** SeqNo: **1380618**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
2-Butanone	ND	10									
Acrolein	ND	20									
Acrylonitrile	ND	20									
Benzene	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	1.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
Di-isopropyl ether	ND	1.0									
Dibromochloromethane	ND	1.0									
Ethylbenzene	ND	1.0									
Hexachlorobutadiene	ND	1.0									
m,p-Xylene	ND	1.0									
Methylene chloride	0.970	2.0									J

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **D120405MB2** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **83830**
Client ID: **PBW** Batch ID: **D12VW040** TestNo: **EPA 8260B** Analysis Date: **4/5/2012** SeqNo: **1380618**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	ND	1.0									
Naphthalene	ND	1.0									
o-Xylene	ND	1.0									
Tert-amyl methyl ether	ND	1.0									
Tert-Butanol	ND	5.0									
Tetrachloroethene	ND	1.0									
Toluene	ND	2.0									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
Trichloroethene	ND	1.0									
Vinyl chloride	ND	1.0									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	23.000		25.00		92.0	72	119				
Surr: 4-Bromofluorobenzene	26.570		25.00		106	76	119				
Surr: Dibromofluoromethane	24.210		25.00		96.8	85	115				
Surr: Toluene-d8	27.410		25.00		110	81	120				

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **D120405LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **83873**
Client ID: **LCSW** Batch ID: **D12VW041** TestNo: **EPA 8260B** Analysis Date: **4/5/2012** SeqNo: **1381990**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chloroethyl vinyl ether	17.930	1.0	20.00	0	89.7	70	130				
Surr: 1,2-Dichloroethane-d4	22.240		25.00		89.0	72	119				
Surr: 4-Bromofluorobenzene	23.890		25.00		95.6	76	119				
Surr: Dibromofluoromethane	24.570		25.00		98.3	85	115				
Surr: Toluene-d8	25.850		25.00		103	81	120				

Sample ID: **N007608-001GMS** SampType: **MS** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **83873**
Client ID: **ZZZZZZ** Batch ID: **D12VW041** TestNo: **EPA 8260B** Analysis Date: **4/5/2012** SeqNo: **1381991**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chloroethyl vinyl ether	ND	1.0	20.00	0	0	70	130				S
Surr: 1,2-Dichloroethane-d4	24.450		25.00		97.8	72	119				
Surr: 4-Bromofluorobenzene	24.320		25.00		97.3	76	119				
Surr: Dibromofluoromethane	26.000		25.00		104	85	115				
Surr: Toluene-d8	26.750		25.00		107	81	120				

Sample ID: **N007608-001GMSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **83873**
Client ID: **ZZZZZZ** Batch ID: **D12VW041** TestNo: **EPA 8260B** Analysis Date: **4/5/2012** SeqNo: **1381992**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chloroethyl vinyl ether	ND	1.0	20.00	0	0	70	130	0	0	20	S
Surr: 1,2-Dichloroethane-d4	23.650		25.00		94.6	72	119		0		
Surr: 4-Bromofluorobenzene	25.260		25.00		101	76	119		0		
Surr: Dibromofluoromethane	26.440		25.00		106	85	115		0		
Surr: Toluene-d8	26.330		25.00		105	81	120		0		

Qualifiers:

- 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
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **D120405MB3** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **83873**
Client ID: **PBW** Batch ID: **D12VW041** TestNo: **EPA 8260B** Analysis Date: **4/5/2012** SeqNo: **1381993**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chloroethyl vinyl ether	ND	1.0									
Surr: 1,2-Dichloroethane-d4	24.600		25.00		98.4	72	119				
Surr: 4-Bromofluorobenzene	24.420		25.00		97.7	76	119				
Surr: Dibromofluoromethane	25.960		25.00		104	85	115				
Surr: Toluene-d8	25.150		25.00		101	81	120				

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_PGE

Sample ID: **LCS-39454**	SampType: **LCS**	TestCode: **8270_W_PGE**	Units: **µg/L**	Prep Date: **4/5/2012**	RunNo: **83851**
Client ID: **LCSW**	Batch ID: **39454**	TestNo: **EPA 8270C**	**EPA 3510C**	Analysis Date: **4/6/2012**	SeqNo: **1381213**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Diphenylhydrazine	63.240	10	100.0	0	63.2	60	117				
2,4,6-Trichlorophenol	58.470	10	100.0	0	58.5	49	126				
2,4-Dichlorophenol	51.690	10	100.0	0	51.7	48	120				
2,4-Dimethylphenol	49.510	10	100.0	0	49.5	28	120				
2,4-Dinitrophenol	79.110	50	100.0	0	79.1	25	130				
2,4-Dinitrotoluene	83.200	10	100.0	0	83.2	51	120				
2,6-Dinitrotoluene	75.430	10	100.0	0	75.4	49	120				
2-Chloronaphthalene	50.170	10	100.0	0	50.2	49	120				
2-Chlorophenol	46.610	10	100.0	0	46.6	37	120				
2-Nitrophenol	53.850	10	100.0	0	53.8	39	123				
3,3´-Dichlorobenzidine	136.040	20	200.0	0	68.0	20	120				
4,6-Dinitro-2-methylphenol	85.040	50	100.0	0	85.0	40	130				
4-Bromophenyl-phenylether	70.590	10	100.0	0	70.6	52	120				
4-Chloro-3-methylphenol	61.000	50	100.0	0	61.0	47	120				
4-Chlorophenyl-phenylether	62.670	10	100.0	0	62.7	50	120				
4-Nitrophenol	64.540	50	100.0	0	64.5	20	120				
Acenaphthene	57.140	10	100.0	0	57.1	47	120				
Acenaphthylene	59.150	10	100.0	0	59.2	50	120				
Anthracene	70.360	10	100.0	0	70.4	54	120				
Benzidine (M)	157.850	50	200.0	0	78.9	10	162				
Benzo(a)anthracene	84.610	10	100.0	0	84.6	56	100				
Benzo(a)pyrene	86.590	10	100.0	0	86.6	53	120				
Benzo(b)fluoranthene	89.060	10	100.0	0	89.1	45	124				
Benzo(g,h,i)perylene	89.260	10	100.0	0	89.3	38	123				
Benzo(k)fluoranthene	81.690	10	100.0	0	81.7	45	124				
Bis(2-chloroethoxy)methane	52.260	10	100.0	0	52.3	46	120				
Bis(2-chloroethyl)ether	50.740	10	100.0	0	50.7	37	120				
Bis(2-chloroisopropyl)ether	50.430	10	100.0	0	50.4	26	131				
Bis(2-ethylhexyl)phthalate	90.830	10	100.0	0	90.8	42	126				
Butylbenzylphthalate	91.080	10	100.0	0	91.1	46	120				

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_PGE

Sample ID: **LCS-39454**	SampType: **LCS**	TestCode: **8270_W_PGE**	Units: **µg/L**	Prep Date: **4/5/2012**	RunNo: **83851**
Client ID: **LCSW**	Batch ID: **39454**	TestNo: **EPA 8270C**	**EPA 3510C**	Analysis Date: **4/6/2012**	SeqNo: **1381213**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	84.080	10	100.0	0	84.1	55	120				
Di-n-butylphthalate	75.100	10	100.0	0	75.1	54	120				
Di-n-octylphthalate	90.490	10	100.0	0	90.5	37	137				
Dibenz(a,h)anthracene	88.970	10	100.0	0	89.0	42	127				
Diethylphthalate	74.520	10	100.0	0	74.5	41	120				
Dimethylphthalate	70.180	10	100.0	0	70.2	25	127				
Fluoranthene	75.050	10	100.0	0	75.1	54	120				
Fluorene	67.640	10	100.0	0	67.6	50	120				
Hexachlorobenzene	69.550	10	100.0	0	69.6	52	120				
Hexachlorocyclopentadiene	45.750	10	100.0	0	45.8	51	108				S
Hexachloroethane	45.930	10	100.0	0	45.9	28	120				
Indeno(1,2,3-cd)pyrene	89.430	10	100.0	0	89.4	43	125				
Isophorone	58.380	10	100.0	0	58.4	50	120				
N-Nitrosodi-n-propylamine	51.940	10	100.0	0	51.9	34	128				
N-Nitrosodimethylamine	42.570	50	100.0	0	42.6	35	98				J
N-Nitrosodiphenylamine	73.490	10	100.0	0	73.5	48	120				
Nitrobenzene	49.970	10	100.0	0	50.0	44	120				
Pentachlorophenol	72.280	50	100.0	0	72.3	38	120				
Phenanthrene	69.920	10	100.0	0	69.9	51	120				
Phenol	45.970	10	100.0	0	46.0	20	120				
Pyrene	72.630	10	100.0	0	72.6	49	128				
Surr: 1,2-Dichlorobenzene-d4	48.400		100.0		48.4	27	100				
Surr: 2,4,6-Tribromophenol	87.350		100.0		87.4	42	124				
Surr: 2-Chlorophenol-d4	50.050		100.0		50.0	34	98				
Surr: 2-Fluorobiphenyl	50.280		100.0		50.3	48	120				
Surr: 2-Fluorophenol	48.740		100.0		48.7	20	120				
Surr: 4-Terphenyl-d14	84.220		100.0		84.2	51	135				
Surr: Nitrobenzene-d5	53.510		100.0		53.5	41	120				
Surr: Phenol-d5	46.990		100.0		47.0	20	120				

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_PGE

Sample ID: **N007608-001R-MS** SampType: **MS** TestCode: **8270_W_PGE** Units: **µg/L** Prep Date: **4/5/2012** RunNo: **83851**
Client ID: **ZZZZZZ** Batch ID: **39454** TestNo: **EPA 8270C** **EPA 3510C** Analysis Date: **4/6/2012** SeqNo: **1381214**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Diphenylhydrazine	71.439	10	102.0	0	70.0	60	117				
2,4,6-Trichlorophenol	70.806	10	102.0	0	69.4	49	126				
2,4-Dichlorophenol	67.776	10	102.0	0	66.4	48	120				
2,4-Dimethylphenol	63.500	10	102.0	0	62.2	28	120				
2,4-Dinitrophenol	86.031	51	102.0	0	84.3	25	130				
2,4-Dinitrotoluene	90.520	10	102.0	0	88.7	51	120				
2,6-Dinitrotoluene	84.990	10	102.0	0	83.3	49	120				
2-Chloronaphthalene	63.163	10	102.0	0	61.9	49	120				
2-Chlorophenol	62.459	10	102.0	0	61.2	37	120				
2-Nitrophenol	73.612	10	102.0	0	72.1	39	123				
3,3´-Dichlorobenzidine	143.041	20	204.1	0	70.1	20	120				
4,6-Dinitro-2-methylphenol	91.122	51	102.0	0	89.3	40	130				
4-Bromophenyl-phenylether	78.337	10	102.0	0	76.8	52	120				
4-Chloro-3-methylphenol	74.143	51	102.0	0	72.7	47	120				
4-Chlorophenyl-phenylether	71.582	10	102.0	0	70.2	50	120				
4-Nitrophenol	47.357	51	102.0	0	46.4	20	120				J
Acenaphthene	68.755	10	102.0	0	67.4	47	120				
Acenaphthylene	72.133	10	102.0	0	70.7	50	120				
Anthracene	76.429	10	102.0	0	74.9	54	120				
Benzidine (M)	172.337	51	204.1	0	84.4	10	162				
Benzo(a)anthracene	93.500	10	102.0	0	91.6	56	100				
Benzo(a)pyrene	94.663	10	102.0	0	92.8	53	120				
Benzo(b)fluoranthene	97.612	10	102.0	0	95.7	45	124				
Benzo(g,h,i)perylene	99.031	10	102.0	0	97.0	38	123				
Benzo(k)fluoranthene	89.010	10	102.0	0	87.2	45	124				
Bis(2-chloroethoxy)methane	68.459	10	102.0	0	67.1	46	120				
Bis(2-chloroethyl)ether	62.245	10	102.0	0	61.0	37	120				
Bis(2-chloroisopropyl)ether	64.643	10	102.0	0	63.4	26	131				
Bis(2-ethylhexyl)phthalate	96.041	10	102.0	0	94.1	42	126				
Butylbenzylphthalate	100.245	10	102.0	0	98.2	46	120				

Qualifiers:

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
R RPD outside accepted recovery limits
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_PGE

Sample ID: **N007608-001R-MS** SampType: **MS** TestCode: **8270_W_PGE** Units: **µg/L** Prep Date: **4/5/2012** RunNo: **83851**
Client ID: **ZZZZZZ** Batch ID: **39454** TestNo: **EPA 8270C** **EPA 3510C** Analysis Date: **4/6/2012** SeqNo: **1381214**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	92.704	10	102.0	0	90.8	55	120				
Di-n-butylphthalate	79.571	10	102.0	0	78.0	54	120				
Di-n-octylphthalate	95.837	10	102.0	0	93.9	37	137				
Dibenz(a,h)anthracene	98.592	10	102.0	0	96.6	42	127				
Diethylphthalate	80.429	10	102.0	0	78.8	41	120				
Dimethylphthalate	77.276	10	102.0	0	75.7	25	127				
Fluoranthene	80.510	10	102.0	0	78.9	54	120				
Fluorene	76.480	10	102.0	0	75.0	50	120				
Hexachlorobenzene	76.949	10	102.0	0	75.4	52	120				
Hexachlorocyclopentadiene	61.051	10	102.0	0	59.8	51	108				
Hexachloroethane	57.235	10	102.0	0	56.1	28	120				
Indeno(1,2,3-cd)pyrene	98.612	10	102.0	0	96.6	43	125				
Isophorone	73.878	10	102.0	0	72.4	50	120				
N-Nitrosodi-n-propylamine	66.704	10	102.0	0	65.4	34	128				
N-Nitrosodimethylamine	47.561	51	102.0	0	46.6	35	98				J
N-Nitrosodiphenylamine	80.173	10	102.0	0	78.6	48	120				
Nitrobenzene	65.908	10	102.0	0	64.6	44	120				
Pentachlorophenol	79.469	51	102.0	0	77.9	38	120				
Phenanthrene	77.051	10	102.0	0	75.5	51	120				
Phenol	51.245	10	102.0	0	50.2	20	120				
Pyrene	78.990	10	102.0	0	77.4	49	128				
Surr: 1,2-Dichlorobenzene-d4	62.724		102.0		61.5	27	100				
Surr: 2,4,6-Tribromophenol	94.265		102.0		92.4	42	124				
Surr: 2-Chlorophenol-d4	65.816		102.0		64.5	34	98				
Surr: 2-Fluorobiphenyl	62.571		102.0		61.3	48	120				
Surr: 2-Fluorophenol	60.582		102.0		59.4	20	120				
Surr: 4-Terphenyl-d14	91.051		102.0		89.2	51	135				
Surr: Nitrobenzene-d5	70.102		102.0		68.7	41	120				
Surr: Phenol-d5	51.061		102.0		50.0	20	120				

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_PGE

Sample ID: **N007608-001R-MSD** SampType: **MSD** TestCode: **8270_W_PGE** Units: **µg/L** Prep Date: **4/5/2012** RunNo: **83851**
Client ID: **ZZZZZZ** Batch ID: **39454** TestNo: **EPA 8270C** **EPA 3510C** Analysis Date: **4/6/2012** SeqNo: **1381215**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Diphenylhydrazine	74.081	10	101.0	0	73.3	60	117	71.44	3.63	20	
2,4,6-Trichlorophenol	75.586	10	101.0	0	74.8	49	126	70.81	6.53	20	
2,4-Dichlorophenol	74.222	10	101.0	0	73.5	48	120	67.78	9.08	20	
2,4-Dimethylphenol	70.061	10	101.0	0	69.4	28	120	63.50	9.82	20	
2,4-Dinitrophenol	87.303	51	101.0	0	86.4	25	130	86.03	1.47	20	
2,4-Dinitrotoluene	94.919	10	101.0	0	94.0	51	120	90.52	4.74	20	
2,6-Dinitrotoluene	88.081	10	101.0	0	87.2	49	120	84.99	3.57	20	
2-Chloronaphthalene	67.960	10	101.0	0	67.3	49	120	63.16	7.32	20	
2-Chlorophenol	67.667	10	101.0	0	67.0	37	120	62.46	8.00	20	
2-Nitrophenol	79.919	10	101.0	0	79.1	39	123	73.61	8.22	20	
3,3´-Dichlorobenzidine	139.586	20	202.0	0	69.1	20	120	143.0	2.44	20	
4,6-Dinitro-2-methylphenol	90.101	51	101.0	0	89.2	40	130	91.12	1.13	20	
4-Bromophenyl-phenylether	79.919	10	101.0	0	79.1	52	120	78.34	2.00	20	
4-Chloro-3-methylphenol	79.808	51	101.0	0	79.0	47	120	74.14	7.36	20	
4-Chlorophenyl-phenylether	74.848	10	101.0	0	74.1	50	120	71.58	4.46	20	
4-Nitrophenol	48.616	51	101.0	0	48.1	20	120	47.36	0	20	J
Acenaphthene	72.505	10	101.0	0	71.8	47	120	68.76	5.31	20	
Acenaphthylene	75.949	10	101.0	0	75.2	50	120	72.13	5.16	20	
Anthracene	77.495	10	101.0	0	76.7	54	120	76.43	1.39	20	
Benzidine (M)	169.495	51	202.0	0	83.9	10	162	172.3	1.66	20	
Benzo(a)anthracene	93.636	10	101.0	0	92.7	56	100	93.50	0.146	20	
Benzo(a)pyrene	94.768	10	101.0	0	93.8	53	120	94.66	0.110	20	
Benzo(b)fluoranthene	94.545	10	101.0	0	93.6	45	124	97.61	3.19	20	
Benzo(g,h,i)perylene	98.444	10	101.0	0	97.5	38	123	99.03	0.594	20	
Benzo(k)fluoranthene	83.333	10	101.0	0	82.5	45	124	89.01	6.59	20	
Bis(2-chloroethoxy)methane	74.131	10	101.0	0	73.4	46	120	68.46	7.96	20	
Bis(2-chloroethyl)ether	76.444	10	101.0	0	75.7	37	120	62.24	20.5	20	R
Bis(2-chloroisopropyl)ether	70.242	10	101.0	0	69.5	26	131	64.64	8.30	20	
Bis(2-ethylhexyl)phthalate	98.263	10	101.0	0	97.3	42	126	96.04	2.29	20	
Butylbenzylphthalate	100.465	10	101.0	0	99.5	46	120	100.2	0.219	20	

Qualifiers:

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
R RPD outside accepted recovery limits
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_PGE

Sample ID: **N007608-001R-MSD** SampType: **MSD** TestCode: **8270_W_PGE** Units: **µg/L** Prep Date: **4/5/2012** RunNo: **83851**
Client ID: **ZZZZZZ** Batch ID: **39454** TestNo: **EPA 8270C** **EPA 3510C** Analysis Date: **4/6/2012** SeqNo: **1381215**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	93.343	10	101.0	0	92.4	55	120	92.70	0.687	20	
Di-n-butylphthalate	81.061	10	101.0	0	80.2	54	120	79.57	1.85	20	
Di-n-octylphthalate	95.929	10	101.0	0	95.0	37	137	95.84	0.0965	20	
Dibenz(a,h)anthracene	97.899	10	101.0	0	96.9	42	127	98.59	0.705	20	
Diethylphthalate	82.859	10	101.0	0	82.0	41	120	80.43	2.98	20	
Dimethylphthalate	80.010	10	101.0	0	79.2	25	127	77.28	3.48	20	
Fluoranthene	81.697	10	101.0	0	80.9	54	120	80.51	1.46	20	
Fluorene	79.525	10	101.0	0	78.7	50	120	76.48	3.90	20	
Hexachlorobenzene	78.303	10	101.0	0	77.5	52	120	76.95	1.74	20	
Hexachlorocyclopentadiene	66.141	10	101.0	0	65.5	51	108	61.05	8.00	20	
Hexachloroethane	62.394	10	101.0	0	61.8	28	120	57.23	8.63	20	
Indeno(1,2,3-cd)pyrene	98.030	10	101.0	0	97.0	43	125	98.61	0.592	20	
Isophorone	80.242	10	101.0	0	79.4	50	120	73.88	8.26	20	
N-Nitrosodi-n-propylamine	72.778	10	101.0	0	72.0	34	128	66.70	8.71	20	
N-Nitrosodimethylamine	50.808	51	101.0	0	50.3	35	98	47.56	6.60	20	
N-Nitrosodiphenylamine	81.222	10	101.0	0	80.4	48	120	80.17	1.30	20	
Nitrobenzene	72.000	10	101.0	0	71.3	44	120	65.91	8.83	20	
Pentachlorophenol	81.424	51	101.0	0	80.6	38	120	79.47	2.43	20	
Phenanthrene	77.283	10	101.0	0	76.5	51	120	77.05	0.300	20	
Phenol	55.636	10	101.0	0	55.1	20	120	51.24	8.22	20	
Pyrene	80.192	10	101.0	0	79.4	49	128	78.99	1.51	20	
Surr: 1,2-Dichlorobenzene-d4	67.707		101.0		67.0	27	100		0		
Surr: 2,4,6-Tribromophenol	99.152		101.0		98.2	42	124		0		
Surr: 2-Chlorophenol-d4	71.242		101.0		70.5	34	98		0		
Surr: 2-Fluorobiphenyl	67.364		101.0		66.7	48	120		0		
Surr: 2-Fluorophenol	65.424		101.0		64.8	20	120		0		
Surr: 4-Terphenyl-d14	91.919		101.0		91.0	51	135		0		
Surr: Nitrobenzene-d5	76.081		101.0		75.3	41	120		0		
Surr: Phenol-d5	54.515		101.0		54.0	20	120		0		

Qualifiers:

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
R RPD outside accepted recovery limits
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_PGE

Sample ID: **MB-39454** SampType: **MBLK** TestCode: **8270_W_PGE** Units: **µg/L** Prep Date: **4/5/2012** RunNo: **83851**
Client ID: **PBW** Batch ID: **39454** TestNo: **EPA 8270C** **EPA 3510C** Analysis Date: **4/6/2012** SeqNo: **1381216**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Diphenylhydrazine	ND	10									
2,4,6-Trichlorophenol	ND	10									
2,4-Dichlorophenol	ND	10									
2,4-Dimethylphenol	ND	10									
2,4-Dinitrophenol	ND	50									
2,4-Dinitrotoluene	ND	10									
2,6-Dinitrotoluene	ND	10									
2-Chloronaphthalene	ND	10									
2-Chlorophenol	ND	10									
2-Nitrophenol	ND	10									
3,3´-Dichlorobenzidine	ND	20									
4,6-Dinitro-2-methylphenol	ND	50									
4-Bromophenyl-phenylether	ND	10									
4-Chloro-3-methylphenol	ND	50									
4-Chlorophenyl-phenylether	ND	10									
4-Nitrophenol	ND	50									
Acenaphthene	ND	10									
Acenaphthylene	ND	10									
Anthracene	ND	10									
Benzidine (M)	ND	50									
Benzo(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									
Bis(2-chloroethoxy)methane	ND	10									
Bis(2-chloroethyl)ether	ND	10									
Bis(2-chloroisopropyl)ether	ND	10									
Bis(2-ethylhexyl)phthalate	ND	10									
Butylbenzylphthalate	ND	10									

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007608
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_PGE

Sample ID: **MB-39454** SampType: **MBLK** TestCode: **8270_W_PGE** Units: **µg/L** Prep Date: **4/5/2012** RunNo: **83851**
Client ID: **PBW** Batch ID: **39454** TestNo: **EPA 8270C** **EPA 3510C** Analysis Date: **4/6/2012** SeqNo: **1381216**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	ND	10									
Di-n-butylphthalate	ND	10									
Di-n-octylphthalate	ND	10									
Dibenz(a,h)anthracene	ND	10									
Diethylphthalate	ND	10									
Dimethylphthalate	ND	10									
Fluoranthene	ND	10									
Fluorene	ND	10									
Hexachlorobenzene	ND	10									
Hexachlorocyclopentadiene	ND	10									
Hexachloroethane	ND	10									
Indeno(1,2,3-cd)pyrene	ND	10									
Isophorone	ND	10									
N-Nitrosodi-n-propylamine	ND	10									
N-Nitrosodimethylamine	ND	50									
N-Nitrosodiphenylamine	ND	10									
Nitrobenzene	ND	10									
Pentachlorophenol	ND	50									
Phenanthrene	ND	10									
Phenol	ND	10									
Pyrene	ND	10									
Surr: 1,2-Dichlorobenzene-d4	58.030		100.0		58.0	27	100				
Surr: 2,4,6-Tribromophenol	60.090		100.0		60.1	42	124				
Surr: 2-Chlorophenol-d4	57.230		100.0		57.2	34	98				
Surr: 2-Fluorobiphenyl	54.950		100.0		55.0	48	120				
Surr: 2-Fluorophenol	53.910		100.0		53.9	20	120				
Surr: 4-Terphenyl-d14	72.460		100.0		72.5	51	135				
Surr: Nitrobenzene-d5	60.070		100.0		60.1	41	120				
Surr: Phenol-d5	46.370		100.0		46.4	20	120				

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

LAB COPY

Advanced Technology Laboratories
3151 W. Post Road
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Tel: 702-307-2659 Fax: 702-307-2691
Marlon Cartin (marlon@atl-labs.com)

CHAIN OF CUSTODY RECORD

DATE: 4/3/12
PAGE: 1 OF 1

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Defibaugh
ADDRESS: 1100 Town & Country Road
CITY: Orange, CA 92868
TEL: 714-560-4802 FAX: 714-560-4601 E-MAIL: james_dye@kindermorgan.com

CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site
PROJECT CONTACT: James Dye
SAMPLER(S): (SIGNATURE)
P.O. NO.:
QUOTE NO.:
LAB USE ONLY

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ■ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS:
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195
"J" flags required/Use lowest possible detection limit - all methods.

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Ammonia Nitrogen (as N) (SM-4500 NH3C)	DIPE, TAME, and MEK (8260B)	MBAs (SM 5540C)	Turbidity (SM2130B)	Cu, Pb, Tl, Zn, & Priority Pollutants (200.8)	Se (200.8); Hg (245.1)	Cr VI (7199)	Priority Pollutants (8082)	Priority Pollutants (8081A)	BTEX, 1,1-DCA, 1,2-DCA, & Priority Pollutans (8260B)	MTBE and TBA, (8260B) 48HR TAT	Oil & Grease (1664)	TPH-g, TPH-d, and TPH-oil (8015B)	Settleable Solids (SM2540F)	Total Suspended Solids (SM2540D)	Phenol (420.1)	Priority Pollutants (8270C)	Cyanide (SM 4500 CN-E, EPA 9014)	Asbestos (EPA/600/R-93/116(PCM))	2,3,7,8-TCDD (8280)	Comments
	EFF-04-03	Effluent	4/3/12	1140	WW	31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Priority Pollutants List was provided to Marlon Cartin.

4007608-1

	Received by: (Signature)	Date	Time
Relinquished by: (Signature)		4/3/12	1417
Relinquished by: (Signature)		4/3/12	1450
Relinquished by: (Signature)		Date:	Time:

Revised: 02/8/2011

LAB COPY

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3151 W. Post Road
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Tel: 702-307-2659 Fax: 702-307-2691
Marlon Cartin (marlon@atl-labs.com)

CHAIN OF CUSTODY RECORD

DATE: 4/3/12
PAGE: 1 OF 1

LABORATORY CLIENT: **Kinder Morgan Energy Partners, Attn: Steve Defibaugh**
ADDRESS: **1100 Town & Country Road**
CITY: **Orange, CA 92868**
TEL: **714-560-4802** FAX: **714-560-4601** E-MAIL: james_dye@kindermorgan.com

CLIENT PROJECT NAME / NUMBER: **SFPP - Norwalk Site**
PROJECT CONTACT: **James Dye**
SAMPLER(S): (SIGNATURE)
P.O. NO.:
QUOTE NO.:
LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ■ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195
"J" flags required/Use lowest possible detection limit - all methods.

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MAT-RIX	NO. OF CONT.	Ammonia Nitrogen (as N) (SM-4500 NH3C)	DIPE, TAME, and MEK (8260B)	MBAs (SM 5540C)	Turbidity (SM2130B)	Cu, Pb, Tl, Zn, & Priority Pollutants (200.8)	Se (200.8); Hg (245.1)	Cr VI (7199)	Priority Pollutants (8082)	Priority Pollutants (8081A)	BTEX, 1,1-DCA, 1,2-DCA, & Priority Pollutants (8260B)	MTBE and TBA, (8260B) 48HR TAT	Oil & Grease (1664)	TPH-g, TPH-d, and TPH-oil (8015B)	Settleable Solids (SM2540F)	Total Suspended Solids (SM2540D)	Phenol (420.1)	Priority Pollutants (8270C)	Cyanide (SM 4500 CN-E, EPA 9014)	Asbestos (EPA/600/R-93/116(PCM))	2,3,7,8-TCDD (8290)	Comments
	EFF-04-03	Effluent	4/3/12	1140	WW	31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Priority Pollutants List was provided to Marlon Cartin.

Relinquished by: (Signature)	Received by: (Signature)	Date: 4/3/12	Time: 1417
Relinquished by: (Signature)	Received by: (Signature)	Date: 4/3/12	Time: 1450
Relinquished by: (Signature)	Received by: (Signature) MSCARTON	Date: 4/4/12	Time: 9:00

4.5°C ICE 1 BTL

Revised: 02/8/2011

Advanced Technology Laboratories, Inc.

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	4/4/2012	Workorder:	N007608
Rep sample Temp (Deg C):	4.5	IR Gun ID:	2
Temp Blank:	☐ Yes ☑ No		
Carrier name:	OnTrac		
Last 4 digits of Tracking No.:	0914	Packing Material Used:	Bubble Wrap
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☑	No ☐	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☑	No ☐	NA ☐
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☑	No ☐	NA ☐
15. Did the bottle labels indicate correct preservatives used?	Yes ☑	No ☐	NA ☐
16. Were there Non-Conformance issues at login?	Yes ☐	No ☐	NA ☑
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments:

Checklist Completed B MBC 4/5/12

Reviewed By: JGE

Advanced Technology Laboratories, Inc.

WORK ORDER Summary

07-Apr-12

WorkOrder: N007608

Client ID: CH2M HILL-OAKLAND

Project: SFPP - Norwalk Site **QC Level:** RTNE **Date Received:** 4/3/2012

Comments: Report to D. Jablonski/CH2M HILL ,cc:KMEP. Direct Bill KMEP/SFPP-Steve Defibaugh-ref.AFE# 81195. "J" Flag required / Use lowest possible detection

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N007608-001A	EFF-04-03	4/3/2012 11:40:00 AM	4/9/2012	Wastewater		Oil and Grease Sample Prep	☐	☐	☐	WW
			4/9/2012		EPA 1664 _HEM	OIL & GREASE	☐	☐	☐	WW
N007608-001B			4/9/2012		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	☐	☐	☐	WV
N007608-001C			4/9/2012		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	☐	☐	☐	WW
			4/9/2012		EPA 8015B	TPH-Fuel Product BY GC/FID	☐	☐	☐	WW
N007608-001D			4/9/2012		SM2540F	SETTLEABLE MATTER	☐	☐	☑	SUB
			4/9/2012			Setteable Matter	☐	☐	☑	SUB
N007608-001E			4/9/2012		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			4/9/2012			Total Suspended Solids Prep	☐	☐	☐	WW
			4/9/2012		SM 2130B	TURBIDITY	☐	☐	☐	WW
N007608-001F			4/9/2012		EPA 420.1	PHENOLICS	☐	☐	☑	SUB
			4/9/2012			Phenols Prep	☐	☐	☑	SUB
N007608-001G			4/5/2012		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WV
N007608-001H			4/9/2012			AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			4/9/2012		EPA 200.8	ICP-MS METALS BY COLLISION/REACTION CELL	☐	☐	☐	WW
			4/9/2012		EPA 200.8	ICPMS METALS	☐	☐	☐	WW
			4/9/2012		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	☐	☐	☐	WW
			4/9/2012			MERCURY PREP	☐	☐	☐	WW
N007608-001I			4/9/2012		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WW
N007608-001J			4/9/2012		SM4500-CN E	CYANIDE, TOTAL	☐	☐	☑	SUB

Advanced Technology Laboratories, Inc.

WORK ORDER Summary

07-Apr-12

WorkOrder: N007608

Client ID: CH2M HILL-OAKLAND

Project: SFPP - Norwalk Site **QC Level:** RTNE **Date Received:** 4/3/2012

Comments: Report to D. Jablonski/CH2M HILL ,cc:KMEP. Direct Bill KMEP/SFPP-Steve Defibaugh-ref.AFE# 81195. "J" Flag required / Use lowest possible detection

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N007608-001J	EFF-04-03	4/3/2012 11:40:00 AM	4/9/2012	Wastewater		Cyanide Prep	☐	☐	☑	SUB
N007608-001K			4/9/2012		Asb_TEM	Asbestos TEM	☐	☐	☑	SUB
N007608-001L			4/9/2012		EPA 8290	Dioxins and Dibenzofurans	☐	☐	☑	SUB
N007608-001M			4/9/2012		SM4500-NH3C	AMMONIA-N	☐	☐	☐	WW
			4/9/2012			Ammonia Prep	☐	☐	☐	WW
N007608-001N			4/9/2012		SM 5540 C	SURFACTANTS	☐	☐	☑	SUB
N007608-001O							☐	☐	☐	WW
N007608-001P			4/9/2012		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: PESTICIDE/PCB	☐	☐	☐	WW
			4/9/2012		EPA 8081A	ORGANOCHLORINE PESTICIDES BY GC/ECD	☐	☐	☐	WW
			4/9/2012		EPA 8082	PCBs BY GC/ECD	☐	☐	☐	WW
N007608-001Q							☐	☐	☐	WW
N007608-001R			4/9/2012		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C	☐	☐	☐	WW
			4/9/2012		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WW
N007608-002A	FOLDER		4/9/2012		Folder	Folder	☐	☐	☐	LAB

OnTrac On Time Delivery For Less

800-334-5000
Call For A Pickup!

Account Number [redacted] B10246440914

Date M M D D Y Y 184944

B10246440914

FROM (Company)
ENVIRO TREATMENT & TECHNOLOGY*

Street Address
3275 WALNUT AVE Suite

City
SIGNAL HILL

State: CA
Zip Code (Required): 90755
Phone Number: 562-989-4045

PLEASE PRINT IN BLOCK LETTERS with Blue / Black Ink

TO (Company) WE CANNOT DELIVER TO A P.O. BOX
ATL-LAS VEGAS

Street Address
3151 W POST ROAD

Suite #
City: LAS VEGAS

State: NV
Zip Code (Required): 89118
Phone Number: 702-307-2659

Recipient's Name
MARLON CARTIN

Shipper's Ref. #
CH2M HILL

Service Options

*If no box is checked, Sunrise Service will be applied.
**Minimum charge weight is 300 lbs. - Delivery by 5:00 P.M.
Note: delivery times for all services may be later in some areas. Check service guide or visit our website for details.

- ☐ SUNRISE - BY 10:30 AM*
- ☒ SUNRISE GOLD - BY 8:00 AM*
- ☐ HEAVYWEIGHT**
- ☐ Saturday Delivery - Extra Charge (see Service Guide for details)
- ☐ HOLD FOR PICKUP
- ☒ This shipment requires a delivery signature
- ☐ Declared Value $ (maximum $25,000) [redacted]
- ☐ C.O.D. Amount $, Limit $10,000 (affix C.O.D. tag to package)

Billing Information

If none is selected, shipper will be invoiced.

- ☐ Bill Shipper's Account
- ☒ Bill Other Acct # [redacted]

Weight

- ☐ 8 oz. Letter or
- 8 Weight lbs. (Subject to verification)

Dim weight charge if greater than actual weight
L in. X W in. X H in. ÷225 = ____

- ☐ Secured Payment (Money Order or Certified Check)
- ☐ Unsecured Payment (Company Check or Personal Check)

WWW.CALOVER.COM

B1024644

OnTrac
ontrac.com 800.334.5000

Advanced Technology Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atlglobal.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

EMS Laboratories
117 W. Bellevue Dr.
Pasadena, CA 91105

TEL: (626) 568-4065
FAX:
Acct #:

Field Sampler: Signed

04-Apr-12

				Requested Tests		
Sample ID	**Matrix**	**Date Collected**	**Bottle Type**	**Asb_TEM**		
N007608-001K / EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	16OZP	1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N007608 Please fax results by: Normal TAT

Please analyze for Abestos by EPA 600/R-93/116(PCM)

		Date/Time			Date/Time
Relinquished by:		4/4/1700	**Received by:**		
Relinquished by:			**Received by:**		

Advanced Technology Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atlglobal.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

APPL, Inc.
908 N. Temperance Ave.
Clovis, CA 93611

TEL:
FAX: (209) 275-4422
Acct #:

Field Sampler: Signed

04-Apr-12

				Requested Tests		
Sample ID	**Matrix**	**Date Collected**	**Bottle Type**	**EPA 8290**		
N007608-001L / EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	32OZA	1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N007608 Please fax results by: Normal TAT

Please analyze the sample for 2,3,7,8-TCDD only by 8290. Please send report and bill to ATL, Inc.

		Date/Time			Date/Time
Relinquished by:		4/4/1700	**Received by:**		
Relinquished by:			**Received by:**		

Advanced Technology Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atlglobal.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Advanced Technology Laboratories - Signal Hill
3283 Walnut Ave.
Signal Hill, California

TEL: (562) 989-4045
FAX: (562) 989-4045
Acct #:

Field Sampler: Signed

03-Apr-12

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA 420.1	SM 5540 C	SM2540F
N007608-001D / EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	32OZP			1
N007608-001F / EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	32OZA	1		
N007608-001J / EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	16OZP			
N007608-001N / EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	8OZP		1	

General Comments: Please email sample receipt acknowledgement to the PM.
Please use PO#: N007608 Please fax results by: Normal TAT

	Date/Time		Date/Time
Relinquished by:	4/3/12	**Received by:**	
Relinquished by:		**Received by:**	

Advanced Technology Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atlglobal.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Advanced Technology Laboratories - Signal Hill
3283 Walnut Ave.
Signal Hill, California

TEL: (562) 989-4045
FAX: (562) 989-4045
Acct #:

Field Sampler: Signed

03-Apr-12

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				SM4500-CN E		
N007608-001D / EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	32OZP			
N007608-001F / EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	32OZA			
N007608-001J / EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	16OZP	1		
N007608-001N / EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	8OZP			

General Comments: Please email sample receipt acknowledgement to the PM.
Please use PO#: N007608 Please fax results by: Normal TAT

	Date/Time		Date/Time
Relinquished by:	4/3/12	**Received by:**	
Relinquished by:		**Received by:**	

ADVANCED TECHNOLOGY LABORATORIES

April 13, 2012

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Marlon Cartin
Advanced Technology Laboratory-Las Vegas
3151 W Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659
Fax:(702) 307-2691

Re: ATL Work Order Number : 1201205
Client Reference : [none]

Enclosed are the results for sample(s) received on April 03, 2012 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 04/13/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N007608-001D / EFF-04-03	1201205-01	Waste Water	4/03/12 11:40	4/03/12 16:48
N007608-001F / EFF-04-03	1201205-02	Waste Water	4/03/12 11:40	4/03/12 16:48
N007608-001J / EFF-04-03	1201205-03	Waste Water	4/03/12 11:40	4/03/12 16:48
N007608-001N / EFF-04-03	1201205-04	Waste Water	4/03/12 11:40	4/03/12 16:48

CASE NARRATIVE

The samples for MBAS (SM 5540C) and Phenols (EPA 420.1) were subcontracted to AETL with ELAP Cert.# 1541.

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 04/13/2012

Client Sample ID N007608-001D / EFF-04-03

Lab ID: 1201205-01

Residue, Settleable by SM 2540F **Analyst: AG**

Analyte	Result (mL/L)	PQL (mL/L)	MDL (mL/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Settleable	ND	0.10	NA	1	B2D0130	04/04/2012	04/04/12 09:44	

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 04/13/2012

Client Sample ID N007608-001J / EFF-04-03

Lab ID: 1201205-03

Cyanide, Total by SM4500-CN E **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Cyanide, Total	ND	0.01	0.006	1	B2D0224	04/06/2012	04/06/12 14:39	

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 04/13/2012

QUALITY CONTROL SECTION

Residue, Settleable by SM 2540F - Quality Control

Analyte	Result (mL/L)	PQL (mL/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2D0130 - No_Prep_WC_1									
Blank (B2D0130-BLK1)				Prepared: 4/4/2012 Analyzed: 4/4/2012					
Residue, Settleable	ND	0.10			NR				

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 04/13/2012

Cyanide, Total by SM4500-CN E - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2D0224 - Prep_WC_3_W									
Blank (B2D0224-BLK1)				Prepared: 4/6/2012 Analyzed: 4/6/2012					
Cyanide, Total	ND	0.01			NR				
LCS (B2D0224-BS1)				Prepared: 4/6/2012 Analyzed: 4/6/2012					
Cyanide, Total	0.4	0.01	0.400		96	80 - 120			

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 04/13/2012

Notes and Definitions

ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Advanced Technology Laboratories
3275 Walnut Street
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attention: Rachelle Arada

Number of Pages 3
Date Received 04/04/2012
Date Reported 04/12/2012

Job Number	Order Date	Client
65317	04/04/2012	ATL

Project ID: 1201205
Project Name: PO# SC07160

Enclosed please find results of analyses of 2 water samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Advanced Technology Laboratories **3275 Walnut Street** **Signal Hill, CA 90755-5225**

Telephone: (562)989-4045
Attention: Rachelle Arada

Project ID: 1201205 **Date Received 04/04/2012** **Date Reported 04/12/2012**

Job Number	Order Date	Client
65317	04/04/2012	ATL

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 2 samples with the following specification on 04/04/2012.

Lab ID	Sample ID	Sample Date	Matrix	QTY of Containers
65317.01	1201205-02	04/03/2012	Aqueous	1
65317.02	1201205-04	04/03/2012	Aqueous	1

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
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ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Street
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: **2**

Project ID: 1201205
Project Name: PO# SC07160

AETL Job Number	Submitted	Client
65317	04/04/2012	ATL

Method: 420.1, Phenolics, Total Recoverable, Spectrophotometric, Manual

QC Batch No: 040512-1

Our Lab I.D.			Method Blank	**65317.01**			
Client Sample I.D.				1201205-02			
Date Sampled				**04/03/2012**			
Date Prepared			**04/05/2012**	**04/05/2012**			
Preparation Method			**420.1**	**420.1**			
Date Analyzed			**04/05/2012**	**04/05/2012**			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Phenolic compounds as phenol	**0.15**	**0.30**	**ND**	**ND**			

QUALITY CONTROL REPORT

QC Batch No: 040512-1; Dup or Spiked Sample: 65308.01; LCS: Clean Water; QC Prepared: 04/05/2012; QC Analyzed: 04/05/2012; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Phenol	**0.00**	**0.200**	**0.191**	**95.6**	**0.200**	**0.193**	**96.4**	**<1**	**80-120**	**<15**

QC Batch No: 040512-1; Dup or Spiked Sample: 65308.01; LCS: Clean Water; QC Prepared: 04/05/2012; QC Analyzed: 04/05/2012; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit		
Phenol	**ND**	**ND**	**<1**	**<15**	**0.200**	**0.199**	**99.6**	**80-120**		

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ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Street
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: **3**

Project ID: 1201205
Project Name: PO# SC07160

AETL Job Number	Submitted	Client
65317	04/04/2012	ATL

Method: 425.1, Methylene Blue Active Substances (MBAS), (EPA/600/4-79-020)

QC Batch No: 040412-1

Our Lab I.D.			Method Blank	65317.02			
Client Sample I.D.				1201205-04			
Date Sampled				04/03/2012			
Date Prepared			04/04/2012	04/04/2012			
Preparation Method			425.1	425.1			
Date Analyzed			04/04/2012	04/04/2012			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Surfactants (MBAS)	0.05	0.05	ND	ND			

QUALITY CONTROL REPORT

QC Batch No: 040412-1; Dup or Spiked Sample: B040412; LCS: Clean Water; QC Prepared: 04/04/2012; QC Analyzed: 04/04/2012; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Surfactants (MBAS)	0.00	0.500	0.415X	83.0	0.500	0.410X	82.0	1.2	80-120	<15

QC Batch No: 040412-1; Dup or Spiked Sample: B040412; LCS: Clean Water; QC Prepared: 04/04/2012; QC Analyzed: 04/04/2012; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Surfactants (MBAS)	ND	ND	<1	<15						

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

ADVANCED TECHNOLOGY LABORATORIES

Job# 65317

SUBCONTRACT ORDER

Work Order: 1201205

SENDING LABORATORY:	**RECEIVING LABORATORY:**
Advanced Technology Laboratories	AETL
3275 Walnut Avenue	2834 North Naomi Street
Signal Hill, CA 90755	Burbank, CA 91504
Phone: 562.989.4045	Phone :(818) 845-8200
Fax: 562.989.6348	Fax: (818) 845-8840
Project Manager: Rachelle Arada	PO#: SC07160 - Standard TAT RR

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires		Sampled	Comments
ATL Lab#: 1201205-02	**/ N007608-001F / EFF-04-03**		**Waste Water**	**04/03/12 11:40**	65317-01
420.1_5530BD	04/11/12 17:00	05/01/12 11:40			
ATL Lab#: 1201205-04	**/ N007608-001N / EFF-04-03**		**Waste Water**	**04/03/12 11:40**	65317-02
425.1_5540C	04/11/12 17:00	04/05/12 11:40			

Released By	Date	Received By	Date
	04/04/12 1259		04/04/12 1259
Released By	Date	Received By	Date
Carrier	04/04/12 15:12	Julius	04/04/12 1512

Advanced Technology Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atlglobal.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Advanced Technology Laboratories - Signal Hill
3283 Walnut Ave.
Signal Hill, California

TEL: (562) 989-4045
FAX: (562) 989-4045
Acct #:

Field Sampler: Signed

03-Apr-12

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA 420.1	SM 5540 C	SM2540F
N007608-001D / EFF-04-03 120205 - 01	Wastewater	4/3/2012 11:40:00 AM	32OZP			1
N007608-001F / EFF-04-03 - 02	Wastewater	4/3/2012 11:40:00 AM	32OZA	1		
N007608-001J / EFF-04-03 - 03	Wastewater	4/3/2012 11:40:00 AM	16OZP			
N007608-001N / EFF-04-03 - 04	Wastewater	4/3/2012 11:40:00 AM	8OZP		1	

General Comments: Please email sample receipt acknowledgement to the PM.
Please use PO#: N007608 Please fax results by: Normal TAT

	Date/Time		Date/Time
Relinquished by:	4/3/12	Received by: APDMA	4/3/12 1648
Relinquished by:		Received by:	

Advanced Technology Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atlglobal.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Advanced Technology Laboratories - Signal Hill
3283 Walnut Ave.
Signal Hill, California

TEL: (562) 989-4045
FAX: (562) 989-4045
Acct #:

Field Sampler: Signed

03-Apr-12

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests: SM4500-CN E		
N007608-001D / EFF-04-03 / 207205 -01	Wastewater	4/3/2012 11:40:00 AM	32OZP			
N007608-001F / EFF-04-03 -02	Wastewater	4/3/2012 11:40:00 AM	32OZA			
N007608-001J / EFF-04-03 -03	Wastewater	4/3/2012 11:40:00 AM	16OZP	1		
N007608-001N / EFF-04-03 -04	Wastewater	4/3/2012 11:40:00 AM	8OZP			

General Comments: Please email sample receipt acknowledgement to the PM.
Please use PO#: N007608 Please fax results by: Normal TAT

	Date/Time		Date/Time
Relinquished by:	4/3/12	**Received by:**	4/13/12 1645
Relinquished by:		**Received by:**	

DATE:	April 10, 2012
CUSTOMER:	Advanced Technology Laboratories 3151-3153 W Post Rd Las Vegas, NV 89118
ATTENTION:	Marlon Cartin
REPORT NO:	150270
REFERENCE:	PO# N007608
DATE RECEIVED:	April 5, 2012 at 0845
DATE ANALYZED:	April 10, 2012
SUBJECT:	ANALYSIS OF WATER SAMPLES FOR ASBESTOS BY TEM
ACCREDITATION:	California Dept. of Health Services ELAP 1119

The sample was prepared and analyzed according to EPA 600 94 134, 100.1.

The date and times of collection filtration are as follows:

Sample	Date/Time of Collection	Date/Time of Filtration
N007608-001K/EFF-04-03	04/03/12 at 1140	04/05/12 at 0922

The results of the analysis and the detection limit(s) are summarized on the following page(s), accompanied by the chain of custody.

Respectfully submitted,
EMS Laboratories, Inc.

B.M. Kolk
Laboratory Director
BMK/am

Note: The report shall not be reproduced, except in full without the written approval of EMS Laboratories, Inc.
Note: The results of the analysis are based upon the sample submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples. All the analytical quality control data meet the requirement of the procedure unless otherwise indicated. Any deviation or exclusion from the test method is noted in this cover letter. Unless otherwise noted in this cover letter the samples were received properly packaged, clearly identified and intact.

ANALYSIS OF WATER BY TEM (EPA-600/4-83-043) EPA 100.1

LAB.NO. 150270
CLIENT: Advanced Technology Laboratories
DATE: 4/10/2012

Laboratory I.D.	Client I.D.	FILTER MEDIA DATA			No. of G.O.	Analyzed Area, mm^2	Sample Volume (ml)
		Type	Diameter mm	Effective Area mm^2			
150270-03	N007608-001K / EFF-04-03	PC	47	1017	20	0.188	25
4-5-12-BL	EMS Blank	PC	47	1017	20	0.188	500

INDIVIDUAL ANALYTICAL RESULTS

Laboratory I.D.	Client I.D.	No of Asbestos Fib			Detection Limit (MFL)	CONCENTRATION (MFL)		
		All sizes	Fib >5µm	Fib >10µm		Fib	Fib >5µm	Fib >10µm
150270-03	N007608-001K / EFF-04-03	ND	ND	ND	0.2	< 0.2	< 0.2	< 0.2
4-5-12-BL	EMS Blank	ND	ND	ND	0.01	< 0.01	< 0.01	< 0.01

The analysis was carried out to the approved TEM method. This laboratory is in compliance with the quality specified by the method.

Authorized Signature

NA Not Applicable
ND None Detected
PC Polycarbonate Filter
GO Grid Openings
MFL Million Fibers per Liter
Fib Fibers

TEM-6A (2011 Rev)

150270

Advanced Technology Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atlglobal.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

EMS Laboratories
117 W. Bellevue Dr.
Pasadena, CA 91105

TEL: (626) 568-4065
FAX:
Acct #:

Field Sampler: Signed

04-Apr-12

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				Asb_TEM		
N007608-001K / EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	16OZP	1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N007608 Please fax results by: Normal TAT

Please analyze for Abestos by EPA 600/R-93/116(PCM)

		Date/Time			Date/Time
Relinquished by:		4/4 e 700	**Received by:**		4/5/12 0845 am
Relinquished by:			**Received by:**		

Laboratory Submittal Form

Client:	Advanced Technology Laboratories		
Address:	3151-3153 W. Post Rd.	Carrier:	Golden State Overnight
	Las Vegas, NV 89118		
Phone:	702-307-2659		
Contact:	Marlon Cartin		

Turnaround Time:	Standard	Sample Preservatives:	
Number of Samples:	1	Sampler's Name:	
Date & Time of Sample Collection:		Holding Times:	Signature:

Type: ☐ Water ☐ Waste Water ☐ Soil ☐ Filter ☐ Impinger ☐ Sorbent Tube ☐ Other

EMS Only				
150270-1			TEM-WW	
3				
4				
5	SEE ATTACHED FOR DETAILS			
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				

Laboratory Number:	**150270**	Received by:	Time: 8:45
Date of Package Delivery:	4/5/2012	Shipping Bill Retained?	YES
Condition of Package on Receipt:	OK	Condition of Custody Seal:	NONE
Number of Samples:	1	Chain of Custody Signature:	
Disposition of Samples:	EMS LABS	Misc. Info:	SF 7/06

EPA METHOD 8290
Dioxins/Furans

APPL, INC.

Data Validation Package
for

EPA METHOD 8290
Dioxins/Furans by HR-MS

TABLE OF CONTENTS

LABORATORY NAME: *APPL, Inc.*

APPL, INC.

EPA METHOD 8290
Dioxins/Furans

Case Narrative

APPL, INC.

908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

EPA Method 8290
2,3,7,8-TCDD
Case Narrative

ARF: 67427

Project: N007608

State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

Results in this report apply to the sample analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sample Receipt Information:

The sample was received on April 5, 2012, at 4.5°C. The sample was assigned Analytical Request Form (ARF) number 67427. The sample number and requested analysis were compared to the chain of custody. No exception was encountered.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
N007608-001L / EFF-04-03	AY58592	WATER	04/03/12	04/05/12

The sample was screened for responses down to the EMPC or EDL, in accordance with the EPA 8290 method.

Sample Preparation:

The sample was extracted and cleaned up according to the EPA 8290 method. All holding times were met.

Analysis Information:

The samplewas analyzed according to the EPA 8290, using a Waters Inc. Autospec Premier High Resolution Mass Spectrometer. The results were reported in accordance with EPA 8290 guidelines, as follows:

1. For analytes that had no chromatographic response in the sample, the EDL (Estimated Detection Limit) was reported in the EDL / EMPC column on the Form 1.
2. For analytes that exhibited chromatographic peaks in the sample (but did not meet the method requirements for positive identification), the EMPC (Estimated Maximum Potential Concentration) was reported in the EDL / EMPC column.

3. For the positively identified analytes the concentration was reported in the "Results" column, and EMPC was reported in the EDL / EMPC column. The EMPC is equal to the detected concentration.

Quality Control/Assurance

Calibrations:

Calibrations and Resolution Checks were performed according to the method. All calibration acceptance criteria were met.

Blanks:

The method blank contained no target analytes at or above one-half the PQL.

Spikes:

A Laboratory Control Spike (LCS) was used for quality control. All LCS recoveries met acceptance criteria.

No sample was designated by the client for MS/MSD analysis.

Surrogate Recoveries (C13 Internal Standards):

C13 Internal Standards were added to the extracts in accordance with the method and reported on the Form 1s as surrogate recoveries. All recoveries met acceptance criteria.

Summary:

All data were acceptable. No analytical exception is noted.

CERTIFICATION

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

4-18-12

Sharon Dehmlow, Laboratory Director / Date

EPA METHOD 8290
Dioxins/Furans

Chain of Custody and ARF

APPL, INC.

APPL - Analysis Request Form 67427

Client: **Advanced Technology Labs**
Address: **3151-3153 W. Post Rd.**
Las Vegas, NV 89118
Attn: **Marlon Cartin**
Phone: **702-307-2659** Fax: **702-307-2691**
Job: **N007608**
PO #: **N007608**
Chain of Custody (Y/N): **Y** #
RAD Screen (Y/N): **Y** pH (Y/N): **N**
Turn Around Type: **STD**

Received by: **TBV**
Date Received: **04/05/12** Time: **12:25**
Delivered by: **GSO**
Shuttle Custody Seals (Y/N): **N** Time Zone: **-7**
Chest Temp(s): **4.5°C**
Color: **E-BRWN**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Cynthia Clark**
QC Report Type: **DVP4/NV**
Due Date: **04/26/12**

Comments:
H8290 Report 'PC' or 'DL' on Form 1; report 2,3,7,8-TCDD only

email report to marlon@atl-labs.com

Sample Distribution: Charges: Invoice To:
Extractions: 1-_SEP8290
Other: 1-$8290W

	Client ID	APPL ID	Sampled	Analyses Requested
1.	N007608-001L / EFF-04-03	AY58592W	04/03/12 11:40	$8290W

APPL Sample Receipt Form

ARF# **67427**

Sample	Container Type	Count	pH	Sample	Container Type	Count	pH
AY58592	17 Amber Liter	1	NA				

Advanced Technology Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atlglobal.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

APPL, Inc.
908 N. Temperance Ave.
Clovis, CA 93611

TEL:
FAX: (209) 275-4422
Acct#:

Field Sampler: Signed

04-Apr-12

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA 8290		
N007608-001L / EFF-04-03	Wastewater	4/3/2012 11:40:00 AM	32OZA	1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N007608 Please fax results by: Normal TAT

Please analayze the sample for 2,3,7,8-TCDD only by 8290. Please send report and bill to ATL, Inc.

		Date/Time			Date/Time
Relinquished by:		4/4@1700	**Received by:**		4/5/12 1225
Relinquished by:			**Received by:**		

COOLER RECEIPT FORM

1) Project: NJ007608 Date Received: 4/5/12

2) Coolers: Number of Coolers: 1

3) (YES) NO Were coolers and samples screened for radioactivity?

4) YES (NO) Were custody seals on outside of cooler? How many?_____ Date on seal? _____

5) Name on seal?_____

6) YES NO (NA) Were custody seals unbroken and intact at the time of arrival? @ 4/5/12

7) (YES) NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: FDX GSO

8) Shipping slip numbers: 1) 518817587 2)_____ 3)_____

9) (YES) NO NA Was the shipping slip scanned into the database?

10) YES (NO) NA If cooler belongs to APPL, has it been logged into the ice chest database?

11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.):_____
Bubble & Zip lock Bag wet ice

12) YES NO (NA) For hand delivered samples was sufficient ice present to start the cooling process?

13) YES (NO) Was a temperature blank included in the cooler?

14) Serial number of certified NIST thermometer used: A39267 Correction factor: 0

15) Cooler temp(s): 1) 4.5c 2)_____ 3)_____ 4)_____ 5)_____ 6)_____ 7)_____ 8)_____

Chain of custody:

16) (YES) NO Was a chain of custody received?

17) (YES) NO Were the custody papers signed in the appropriate places?

18) (YES) NO Was the project identifiable from custody papers?

19) (YES) NO Did the chain of custody include date and time of sampling?

20) (YES) NO Is location where sample was taken listed on the chain of custody?

Sample Labels:

21) (YES) NO Were container labels in good condition?

22) (YES) NO Was the client ID on the label?

23) (YES) NO Was the date of sampling on the label?

24) (YES) NO Was the time of sampling on the label?

25) (YES) NO Did all container labels agree with custody papers?

Sample Containers:

26) (YES) NO Were all containers sealed in separate bags?

27) (YES) NO Did all containers arrive unbroken?

28) YES (NO) Was there any leakage from samples?

29) YES (NO) Were any of the lids cracked or broken?

30) (YES) NO Were correct containers used for the tests indicated?

31) (YES) NO Was a sufficient amount of sample sent for tests indicated?

32) YES NO (NA) Were bubbles present in volatile samples? If yes, the following were received with air bubbles:

Larger than a pea: _____

Smaller than a pea: _____

Preservation & Hold time:

33) (YES) NO NA Was a sufficient amount of holding time remaining to analyze the samples?

34) YES NO (NA) Do the sample containers contain the same preservative as what is stated on the COC?

35) YES NO (NA) Was the pH taken of all non-VOA preserved samples and written on the sample container?

36) YES NO (NA) Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 12?

37) YES NO (NA) Unpreserved VOA Vials received? _____

38) YES NO (NA) Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF? _____

Lab notified if pH was not adequate:_____

Deficiencies:_____

Signature of personnel receiving samples: _____ Second reviewer: _____

Signature of project manager notified:_____ Date and Time of notification:_____

Name of client notified:_____ Date and Time of notification:_____

Information given to client:_____

_____ by whom (Initials): _____

EPA METHOD 8290
Dioxins/Furans

QC Summary

APPL, INC.

Method Blank

EPA 8290 - Dioxins and Furans

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **120410W-58592 - 165857**
Batch ID: $8290W-120410A

Sample Type	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
BLANK	2,3,7,8-TCDD	Not detected	50.0	1.2PC	pg/L	04/10/12	04/15/12
BLANK	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	96.8	40-135		%	04/10/12	04/15/12
BLANK	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	85.2	40-135		%	04/10/12	04/15/12
BLANK	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	87.8	40-135		%	04/10/12	04/15/12
BLANK	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	74.5	40-135		%	04/10/12	04/15/12
BLANK	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	81.6	40-135		%	04/10/12	04/15/12
BLANK	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	86.4	40-135		%	04/10/12	04/15/12
BLANK	SURROGATE: 13C-2,3,7,8-TCDD (S)	80.0	40-135		%	04/10/12	04/15/12
BLANK	SURROGATE: 13C-2,3,7,8-TCDF (S)	84.4	40-135		%	04/10/12	04/15/12
BLANK	SURROGATE: 13C-OCDD (S)	83.0	40-135		%	04/10/12	04/15/12

Quant Method: 8290_120414
Run #: 120414_HR_16
Instrument: Magneto
Sequence: 120414
Initials: RP

Laboratory Control Spike Recovery
EPA 8290 - Dioxins and Furans

APPL ID: **120410W-58592 LCS - 165857**
Batch ID: #8290W-120410A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level pg/L	SPK Result pg/L	SPK % Recovery	Recovery Limits
2,3,7,8-TCDD	500	490	98.0	70-130
SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD	5000	4470	89.4	40-135
SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF	5000	3670	73.4	40-135
SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S	5000	4210	84.2	40-135
SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S	5000	3560	71.2	40-135
SURROGATE: 13C-1,2,3,7,8-PECDD (S)	2000	1560	78.0	40-135
SURROGATE: 13C-1,2,3,7,8-PECDF (S)	2000	1620	81.0	40-135
SURROGATE: 13C-2,3,7,8-TCDD (S)	2000	1550	77.5	40-135
SURROGATE: 13C-2,3,7,8-TCDF (S)	2000	1600	80.0	40-135
SURROGATE: 13C-OCDD (S)	10000	7640	76.4	40-135

Comments: _____

Primary	SPK
Quant Method :	8290_120414
Extraction Date :	04/10/12
Analysis Date :	04/15/12
Instrument :	Magneto
Run :	120414_HR_14
Initials :	RP

Printed: 04/16/12 10:53:16 AM
APPL Standard LCS

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 67427

Case No: 67427 Date Analyzed: 04/15/12

Matrix: WATER Instrument: Magneto

APPL ID.	Client Sample No.	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)			SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
120410A-LCS	Lab Control Spike	40-135	89.4		40-135	73.4	
120410A-BLK	Blank	40-135	96.8		40-135	85.2	
AY58592	N007608-001L / EFF-04-03	40-135	96.7		40-135	84.1	

Comments: Batch: #8290W-120410A

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 67427

Case No: 67427 Date Analyzed: 04/15/12

Matrix: WATER Instrument: Magneto

APPL ID.	Client Sample No.	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)			SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
120410A-LCS	Lab Control Spike	40-135	84.2		40-135	71.2	
120410A-BLK	Blank	40-135	87.8		40-135	74.5	
AY58592	N007608-001L / EFF-04-03	40-135	85.5		40-135	75.0	

Comments: Batch: #8290W-120410A

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 67427

Case No: 67427 Date Analyzed: 04/15/12

Matrix: WATER Instrument: Magneto

APPL ID.	Client Sample No.	SURROGATE: 13C-1,2,3,7,8-PECDD (S)			SURROGATE: 13C-1,2,3,7,8-PECDF (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
120410A-LCS	Lab Control Spike	40-135	78.0		40-135	81.0	
120410A-BLK	Blank	40-135	81.6		40-135	86.4	
AY58592	N007608-001L / EFF-04-03	40-135	81.5		40-135	83.7	

Comments: Batch: #8290W-120410A

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 67427

Case No: 67427 Date Analyzed: 04/15/12

Matrix: WATER Instrument: Magneto

APPL ID.	Client Sample No.	SURROGATE: 13C-2,3,7,8-TCDD (S)			SURROGATE: 13C-2,3,7,8-TCDF (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
120410A-LCS	Lab Control Spike	40-135	77.5		40-135	80.0	
120410A-BLK	Blank	40-135	80.0		40-135	84.4	
AY58592	N007608-001L / EFF-04-03	40-135	79.5		40-135	81.9	

Comments: Batch: #8290W-120410A

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 67427

Case No: 67427 Date Analyzed: 04/15/12

Matrix: WATER Instrument: Magneto

APPL ID.	Client Sample No.	SURROGATE: 13C-OCDD (S)					
		Limits	Result	Qualifier	Limits	Result	Qualifier
120410A-LCS	Lab Control Spike	40-135	76.4				
120410A-BLK	Blank	40-135	83.0				
AY58592	N007608-001L / EFF-04-03	40-135	81.2				

Comments: Batch: #8290W-120410A

EPA 8290

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 67427

Case No: 67427 Date Analyzed: 04/15/12

Matrix: WATER Instrument: Magneto

Blank ID: 120410A-BLK Time Analyzed: 0855

APPL ID.	Client Sample No.	File ID.	Date Analyzed
120410A-LCS	Lab Control Spike	120414_HR_14	04/15/12 0642
120410A-BLK	Blank	120414_HR_16	04/15/12 0855
AY58592	N007608-001L / EFF-04-03	120414_HR_19	04/15/12 1224

Comments: Batch: #8290W-120410A

EPA METHOD 8290
Dioxins/Furans

Sample Data

APPL, INC.

EPA 8290 - Dioxins and Furans

Advanced Technology Labs
3151-3153 W. Post Rd.
Las Vegas, NV 89118

Attn: Marlon Cartin
Project: N007608

Sample ID: N007608-001L / EFF-04-03
Sample Collection Date: 04/03/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 67427
APPL ID: AY58592
QCG: $8290W-120410A-165857

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290	2,3,7,8-TCDD	Not detected	50.0	0.91DL	pg/L	04/10/12	04/15/12
EPA 8290	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S	96.7	40-135		%	04/10/12	04/15/12
EPA 8290	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S	84.1	40-135		%	04/10/12	04/15/12
EPA 8290	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	85.5	40-135		%	04/10/12	04/15/12
EPA 8290	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	75.0	40-135		%	04/10/12	04/15/12
EPA 8290	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	81.5	40-135		%	04/10/12	04/15/12
EPA 8290	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	83.7	40-135		%	04/10/12	04/15/12
EPA 8290	SURROGATE: 13C-2,3,7,8-TCDD (S)	79.5	40-135		%	04/10/12	04/15/12
EPA 8290	SURROGATE: 13C-2,3,7,8-TCDF (S)	81.9	40-135		%	04/10/12	04/15/12
EPA 8290	SURROGATE: 13C-OCDD (S)	81.2	40-135		%	04/10/12	04/15/12

Quant Method: 8290_120414
Run #: 120414_HR_19
Instrument: Magneto
Sequence: 120414
Dilution Factor: 1
Initials: RP

Printed: 04/16/12 10:53:29 AM
Form 1 - APPL Standard GC - No MC

Method: C:\MassLynx\Default.pro\Methdb\120414_8290.mdb 16 Apr 2012 09:09:34
Calibration: C:\MassLynx\Default.pro\Curvedb\120414_8290.cdb 16 Apr 2012 09:10:03

Name: 120414_HR_19, Date: 15-Apr-2012, Time: 12:24:31, ID: , Description: AY58592_W01 50.51 DF 04/10/12, User: RP

Name	Peak Area	IS Area	RT	Ion Ab.	Ion Pair	S/N1	S/N2	Conc.	%Rec	LOD	EMPC	Multiplier
2,3,7,8-TCDD	1.411310e2	9.347100e1	32.21	1.51	YES	NO	NO	~~1.051~~		0.910	~~0.744~~	50.51
1,2,3,7,8-PeCDD	1.371060e2	1.239340e2	41.13	1.11	YES	YES	YES	~~1.724~~		1.456	~~1.400~~	50.51
1,2,3,4,7,8-HxCDD	5.916600e1	3.315000e0	48.45	17.85	YES	YES	YES	~~0.570~~		1.454	~~0.068~~	50.51
1,2,3,6,7,8-HxCDD	1.365360e2	6.431100e1	48.69	2.12	YES	NO	NO	~~1.590~~		~~1.249~~	1.140	50.51
1,2,3,7,8,9-HxCDD	8.439700e1	1.275090e2	49.17	0.66	YES	YES	NO	~~1.772~~		1.319	~~1.275~~	50.51
1,2,3,4,6,7,8-HpCDD	1.608600e2	1.050390e2	55.06	1.53	YES	NO	NO	~~2.489~~		~~1.426~~	2.005	50.51
OCDD	3.476790e2	3.218970e2	61.49	1.08	YES	NO	NO	~~10.270~~		~~4.057~~	9.331	50.51
2,3,7,8-TCDF										0.562		50.51
1,2,3,7,8-PeCDF	2.675560e2	1.106460e2	38.43	2.42	YES	NO	NO	~~1.330~~		0.732	~~0.999~~	50.51
2,3,4,7,8-PeCDF	2.214180e2	6.342600e1	40.50	3.49	YES	NO	NO	~~1.079~~		~~0.703~~	0.613	50.51
1,2,3,4,7,8-HxCDF	1.683590e2	1.153670e2	46.62	1.46	YES	NO	NO	~~1.329~~		~~0.749~~	1.211	50.51
1,2,3,6,7,8-HxCDF	2.044400e2	1.065860e2	46.90	1.92	YES	NO	NO	~~1.471~~		~~0.602~~	0.899	50.51
2,3,4,6,7,8-HxCDF	1.666230e2	1.050510e2	48.02	1.59	YES	NO	NO	~~1.287~~		~~0.757~~	1.115	50.51
1,2,3,7,8,9-HxCDF	8.109800e1	8.572300e1	49.85	0.95	YES	NO	NO	~~0.893~~		~~0.952~~	0.672	50.51
1,2,3,4,6,7,8-HpCDF	6.758000e1	5.992300e1	52.89	1.46	YES	YES	NO	~~0.849~~		1.360	~~0.703~~	50.51
1,2,3,4,7,8,9-HpCDF										2.022		50.51
OCDF	3.171900e1	1.257610e2	61.81	0.25	YES	YES	NO	~~1.888~~		2.276	~~0.807~~	50.51
13C-2,3,7,8-TCDD	1.672769e5	2.177005e5	32.23	0.77	NO	NO	NO	1605.883	79.48	1.847		50.51
13C-1,2,3,7,8-PeCDD	1.613446e5	1.143255e5	41.07	1.59	NO	NO	NO	1647.493	81.54	3.453		50.51
13C-1,2,3,6,7,8-HxCDD	3.081785e5	2.418679e5	48.65	1.27	NO	NO	NO	3767.132	74.98	2.717		50.51
13C-1,2,3,4,6,7,8-HpCDD	2.443526e5	2.304713e5	55.04	1.06	NO	NO	NO	4883.638	96.69	5.399		50.51
13C-OCDD	2.604309e5	2.857330e5	61.45	0.91	NO	NO	NO	8199.867	81.17	8.185		50.51
13C-2,3,7,8-TCDF	2.809252e5	3.537674e5	31.29	0.79	NO	NO	NO	1653.620	81.85	0.938		50.51
13C-1,2,3,7,8-PeCDF	3.132643e5	1.980743e5	38.36	1.58	NO	NO	NO	1691.687	83.73	1.512		50.51
13C-1,2,3,4,7,8-HxCDF	2.769214e5	5.251854e5	46.59	0.53	NO	NO	NO	4317.532	85.48	2.757		50.51
13C-1,2,3,4,6,7,8-HpCDF	1.841746e5	4.076718e5	52.85	0.45	NO	NO	NO	4247.730	84.10	3.023		50.51
13C-1,2,3,4-TCDD	2.239652e5	2.823018e5	31.50	0.79	NO	NO	NO	2020.400	100.00	1.767		50.51
13C-1,2,3,7,8,9-HxCDD	1.655619e5	1.290625e5	49.17	1.28	NO	NO	NO	2020.400	100.00	2.706		50.51
Total Tetra-Dioxins	3.239546e3							26.966		0.910	17.896	50.51
Total Penta-Dioxins	1.768404e3							27.348		1.456	17.114	50.51
Total Hexa-Dioxins	2.635621e3							38.059		1.335	27.820	50.51
Total Hepta-Dioxins	1.302856e3							18.619		1.426	9.953	50.51
Total Tetra-Furans	1.030173e3							6.479		0.562	4.137	50.51
Total Penta-Furans	1.370362e3							9.548		0.756	6.565	50.51
Total Hexa-Furans	1.122947e3							9.026		0.745	7.145	50.51
Total Hepa-Furans	7.126080e2							6.807		1.626	4.068	50.51
PFK1	0.000000e0											1.00
PFK2	0.000000e0											1.00
PFK3	0.000000e0											1.00
PFK4	0.000000e0											1.00
PFK5	0.000000e0											1.00
HxCDPE	0.000000e0											1.00
HpCDPE	0.000000e0											1.00
OCDPE	0.000000e0											1.00
NCDPE	0.000000e0											1.00
DCDPE	0.000000e0											1.00

4/15/12 RP

RETENTION TIME CHECK

AY58592_W01_50.51 DF 04/10/12 EPA Method 8290

INSTRUMENT: Magneto
COLUMN: Restek DB5 - 60m
MATRIX:

ANALYSIS DATE/TIME:
EXTRACTION DATE:
SEQUENCE:
RUN FILE: 120414_HR_19

Analyte	RT of congener in sample 120414_HR_19	RT of ^{13}C congener in sample 120414_HR_19	RRT of congener in sample 120414_HR_19	RRT of congener in CCV 120414_HR_11	LCL[a]	UCL[b]	Qualifiers
2,3,7,8-TCDD	32.2055	32.2328	0.9992	1.0008	32.2161	32.2828	Fail
1,2,3,7,8-PeCDD	41.1300	41.0692	1.0015	1.0007	41.0525	41.1192	Fail
1,2,3,4,7,8-HxCDD	48.4515	48.6533	0.9959	0.9963	0.9913	1.0013	Pass
1,2,3,6,7,8-HxCDD	48.6853	48.6533	1.0007	1.0004	48.6366	48.7033	Pass
1,2,3,7,8,9-HxCDD	49.1740	48.6533	1.0107	1.0114	1.0063	1.0164	Pass
1,2,3,4,6,7,8-HpCDD	55.0558	55.0355	1.0004	1.0004	55.0188	55.0855	Pass
OCDD	61.4920	61.4515	1.0007	1.0006	61.4348	61.5015	Pass
2,3,7,8-TCDF		31.2938		1.0009	31.2771	31.3438	Fail
1,2,3,7,8-PeCDF	38.4338	38.3628	1.0019	1.0008	38.3461	38.4128	Fail
2,3,4,7,8-PeCDF	40.5015	38.3628	1.0557	1.0544	1.0491	1.0597	Pass
1,2,3,4,7,8-HxCDF	46.6240	46.5922	1.0007	1.0007	46.5755	46.6422	Pass
1,2,3,6,7,8-HxCDF	46.9003	46.5922	1.0066	1.0062	1.0011	1.0112	Pass
2,3,4,6,7,8-HxCDF	48.0160	46.5922	1.0306	1.0326	1.0274	1.0378	Pass
1,2,3,7,8,9-HxCDF	49.8540	46.5922	1.0700	1.0700	1.0646	1.0753	Pass
1,2,3,4,6,7,8-HpCDF	52.8868	52.8463	1.0008	1.0004	52.8296	52.8963	Pass
1,2,3,4,7,8,9-HpCDF		52.8463		1.0604	1.0551	1.0657	Fail
OCDF	61.8062	61.4515	1.0058	1.0068	1.0017	1.0118	Pass
$^{13}C_{12}$-2,3,7,8-TCDD	32.2328	31.4960	1.0233	1.0237	1.0186	1.0289	Pass
$^{13}C_{12}$-1,2,3,7,8-PeCDD	41.0692	31.4960	1.3039	1.3043	1.2978	1.3108	Pass
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	48.6533	49.1740	0.9894	0.9892	0.9843	0.9942	Pass
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	55.0355	49.1740	1.1192	1.1189	1.1133	1.1246	Pass
$^{13}C_{12}$-OCDD	61.4515	49.1740	1.2497	1.2495	1.2432	1.2557	Pass
$^{13}C_{12}$-2,3,7,8-TCDF	31.2938	31.4960	0.9936	0.9935	0.9886	0.9985	Pass
$^{13}C_{12}$-1,2,3,7,8-PeCDF	38.3628	31.4960	1.2179	1.2184	1.2123	1.2245	Pass
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	46.5922	49.1740	0.9475	0.9473	0.9426	0.9521	Pass
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	52.8463	49.1740	1.0747	1.0748	1.0692	1.0800	Pass

a. Lower control limit
b. Upper control limit

Method: C:\MassLynx\Default.pro\Methdb\120414_8290.mdb 16 Apr 2012 09:09:34
Calibration: C:\MassLynx\Default.pro\Curvedb\120414_8290.cdb 16 Apr 2012 09:10:03

Name: 120414_HR_19, Date: 15-Apr-2012, Time: 12:24:31, ID: , Description: AY58592_W01 50.51 DF 04/10/12, User: RP

#	Name	RT	IS RT	RRT
1	2,3,7,8-TCDD	32.205502	32.232800	0.999153
2	1,2,3,7,8-PeCDD	41.130001	41.069199	1.001480
3	1,2,3,4,7,8-HxCDD	48.451500	48.653301	0.995852
4	1,2,3,6,7,8-HxCDD	48.685299	48.653301	1.000658
5	1,2,3,7,8,9-HxCDD	49.174000	48.653301	1.010702
6	1,2,3,4,6,7,8-HpCDD	55.055801	55.035500	1.000369
7	OCDD	61.492001	61.451500	1.000659
8	2,3,7,8-TCDF		31.293800	
9	1,2,3,7,8-PeCDF	38.433800	38.362801	1.001851
10	2,3,4,7,8-PeCDF	40.501499	38.362801	1.055749
11	1,2,3,4,7,8-HxCDF	46.624001	46.592201	1.000682
12	1,2,3,6,7,8-HxCDF	46.900299	46.592201	1.006613
13	2,3,4,6,7,8-HxCDF	48.015999	46.592201	1.030559
14	1,2,3,7,8,9-HxCDF	49.854000	46.592201	1.070007
15	1,2,3,4,6,7,8-HpCDF	52.886799	52.846298	1.000766
16	1,2,3,4,7,8,9-HpCDF		52.846298	
17	OCDF	61.808198	61.451500	1.005772
18	13C-2,3,7,8-TCDD	32.232800	31.497999	1.023328
19	13C-1,2,3,7,8-PeCDD	41.069199	31.497999	1.303867
20	13C-1,2,3,6,7,8-HxCDD	48.653301	49.174000	0.989411
21	13C-1,2,3,4,6,7,8-HpCDD	55.035500	49.174000	1.119199
22	13C-OCDD	61.451500	49.174000	1.249675
23	13C-2,3,7,8-TCDF	31.293800	31.497999	0.993517
24	13C-1,2,3,7,8-PeCDF	38.362801	31.497999	1.217944
25	13C-1,2,3,4,7,8-HxCDF	46.592201	49.174000	0.947497
26	13C-1,2,3,4,6,7,8-HpCDF	52.846298	49.174000	1.074680
27	13C-1,2,3,4-TCDD	31.497999	31.497999	1.000000
28	13C-1,2,3,7,8,9-HxCDD	49.174000	49.174000	1.000000

Method: C:\MassLynx\Default.pro\Methdb\120414_8290.mdb 16 Apr 2012 09:09:34
Calibration: C:\MassLynx\Default.pro\Curvedb\120414_8290.cdb 16 Apr 2012 09:10:03

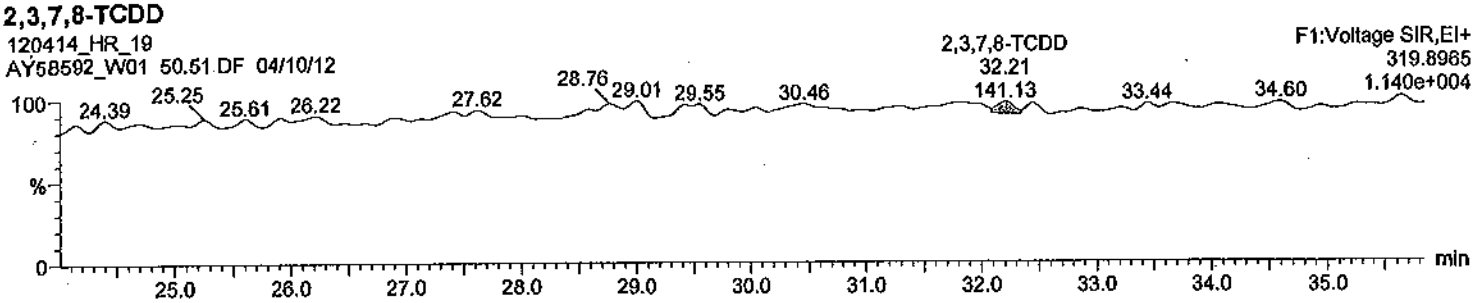
Name: 120414_HR_19, Date: 15-Apr-2012, Time: 12:24:31, ID: , Description: AY58592_W01 50.51 DF 04/10/12, User: RP

#	Name	Signal1	Noise1	S/N1	Flag S/N	Signal2	Noise2	S/N2	Flag S/N
1	2,3,7,8-TCDD	8.1400000e2	2.2921243e2	2.94	NO	6.3800000e2	2.5165645e2	2.54	NO
2	1,2,3,7,8-PeCDD	9.3600000e2	2.0406512e2	2.83	YES	8.4700000e2	3.5200433e2	2.41	YES
3	1,2,3,4,7,8-HxCDD	4.7700000e2	2.3343234e2	0.17	YES	6.4000000e1	1.8617598e2	0.34	YES
4	1,2,3,6,7,8-HxCDD	1.0080000e3	2.3343234e2	2.57	NO	4.6700000e2	1.8617598e2	2.51	NO
5	1,2,3,7,8,9-HxCDD	7.5600000e2	2.3343234e2	2.14	YES	9.3800000e2	1.8617598e2	5.04	NO
6	1,2,3,4,6,7,8-HpCDD	1.3480000e3	2.2726303e2	3.95	NO	6.9900000e2	1.5835471e2	4.41	NO
7	OCDD	1.8650000e3	1.1047652e2	13.53	NO	1.6530000e3	4.5627106e2	3.62	NO
8	2,3,7,8-TCDF		2.2983513e2				2.4384343e2		
9	1,2,3,7,8-PeCDF	1.9450000e3	2.8517822e2	5.62	NO	1.0160000e3	2.0717044e2	4.90	NO
10	2,3,4,7,8-PeCDF	1.1720000e3	2.8517822e2	43.39	NO	5.6800000e2	2.0717044e2	2.74	NO
11	1,2,3,4,7,8-HxCDF	1.0630000e3	1.4682724e2	3.66	NO	1.1080000e3	2.5588245e2	4.33	NO
12	1,2,3,6,7,8-HxCDF	9.4000000e2	1.4682724e2	2.77	NO	7.1700000e2	2.5588245e2	2.80	NO
13	2,3,4,6,7,8-HxCDF	1.3530000e3	1.4682724e2	6.03	NO	8.7400000e2	2.5588245e2	3.42	NO
14	1,2,3,7,8,9-HxCDF	9.0300000e2	1.4682724e2	3.87	NO	6.4800000e2	2.5588245e2	2.53	NO
15	1,2,3,4,6,7,8-HpCDF	6.1400000e2	4.3861041e2	0.84	YES	5.7100000e2	1.7475031e2	3.27	NO
16	1,2,3,4,7,8,9-HpCDF		4.3861041e2				1.7475031e2		
17	OCDF	3.1900000e2	1.7903171e2	0.08	YES	7.6400000e2	2.2808682e2	3.35	NO
18	13C-2,3,7,8-TCDD	9.8995400e5	6.1147131e2	1621.76	NO	1.2458080e6	5.1101141e2	2437.93	NO
19	13C-1,2,3,7,8-PeCDD	1.1438010e6	1.2400806e3	921.52	NO	7.1535500e5	3.3090848e2	2161.79	NO
20	13C-1,2,3,6,7,8-HxCDD	2.0469470e6	4.8277911e2	4248.58	NO	1.5973710e6	4.2984113e2	3716.19	NO
21	13C-1,2,3,4,6,7,8-HpCDD	1.5459000e6	3.7167624e2	4156.93	NO	1.4546500e6	8.4225378e2	1727.09	NO
22	13C-OCDD	1.3949260e8	7.0486243e2	1975.28	NO	1.5304090e6	5.5596918e2	2752.69	NO
23	13C-2,3,7,8-TCDF	1.6901660e6	4.3362738e2	3898.61	NO	2.0903640e6	4.7876154e2	4366.19	NO
24	13C-1,2,3,7,8-PeCDF	1.8654720e6	4.8879388e2	3816.03	NO	1.1728880e6	6.6942175e2	1752.09	NO
25	13C-1,2,3,4,7,8-HxCDF	1.7445560e6	4.2502551e2	4102.91	NO	3.3841390e6	7.5972595e2	4428.10	NO
26	13C-1,2,3,4,6,7,8-HpCDF	1.1948220e6	3.2915869e2	3626.17	NO	2.6483430e6	6.4490784e2	4106.54	NO
27	13C-1,2,3,4-TCDD	1.4193060e8	6.1147131e2	2323.38	NO	1.7822360e6	5.1101141e2	3487.66	NO
28	13C-1,2,3,7,8,9-HxCDD	9.5723500e5	4.8277911e2	1983.77	NO	7.4388100e5	4.2984113e2	1730.60	NO

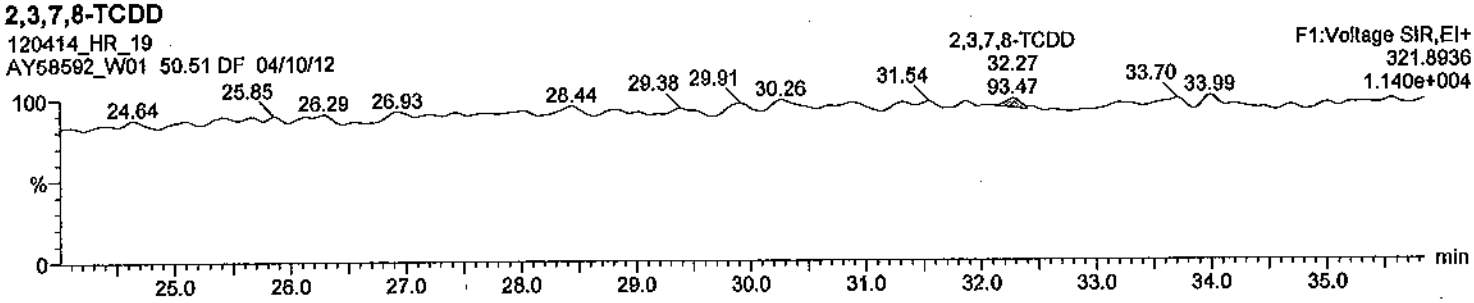
Method: C:\MassLynx\Default.pro\Methdb\120414_8290.mdb 16 Apr 2012 09:09:34
Calibration: C:\MassLynx\Default.pro\Curvedb\120414_8290.cdb 16 Apr 2012 09:10:03

Name: 120414_HR_19, Date: 15-Apr-2012, Time: 12:24:31, ID: , Description: AY58592_W01 50.51 DF 04/10/12, User: RP

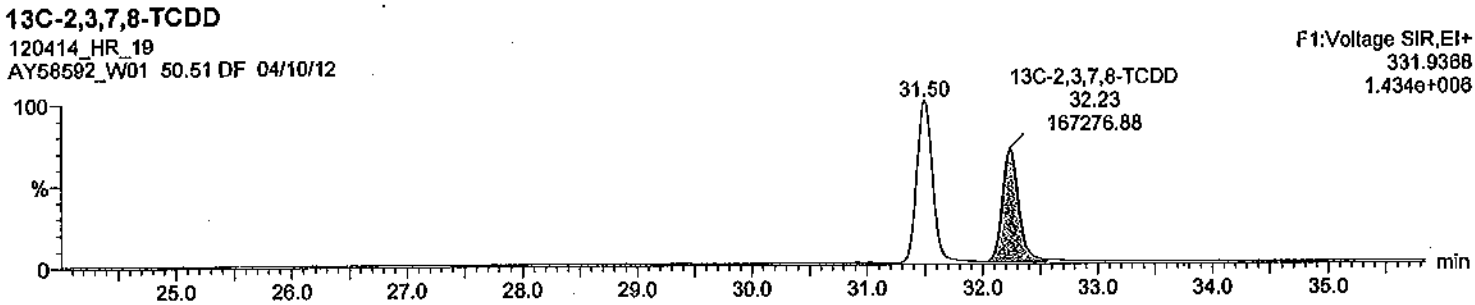
2,3,7,8-TCDD



2,3,7,8-TCDD



13C-2,3,7,8-TCDD



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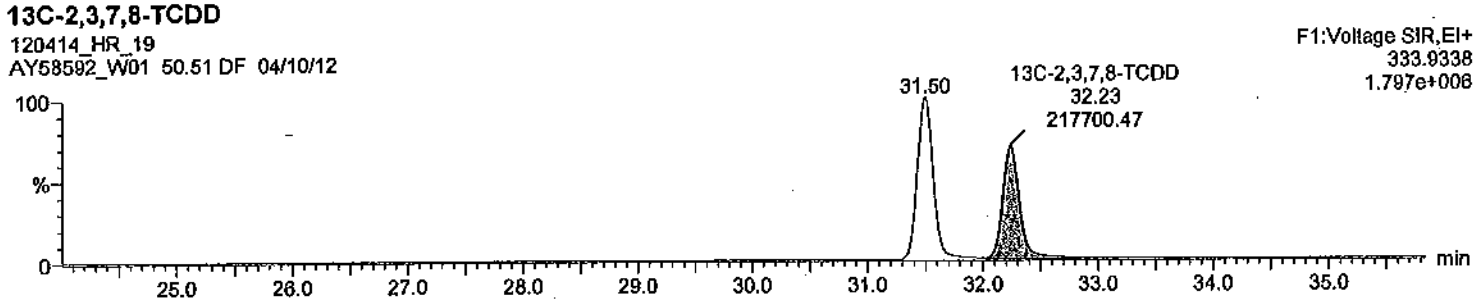
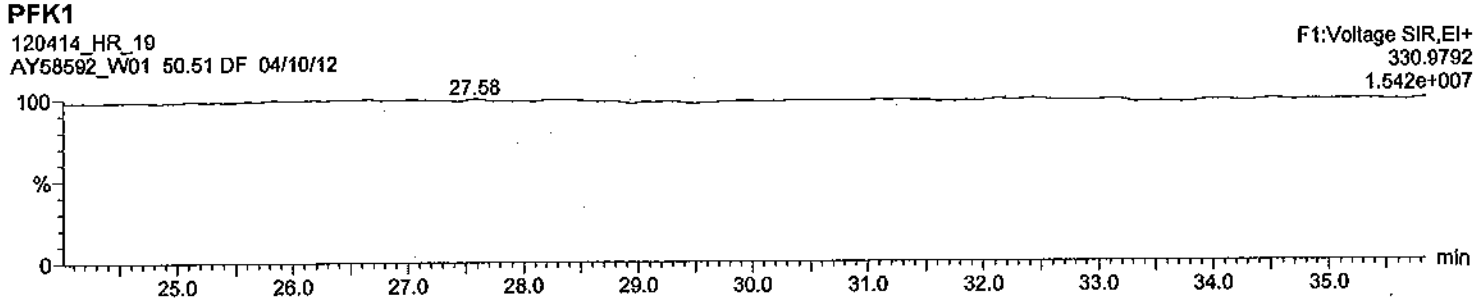
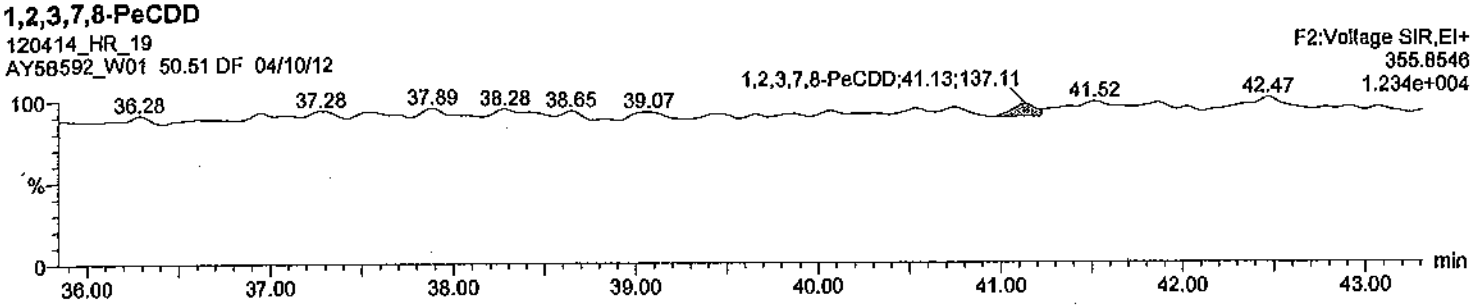


PFK1

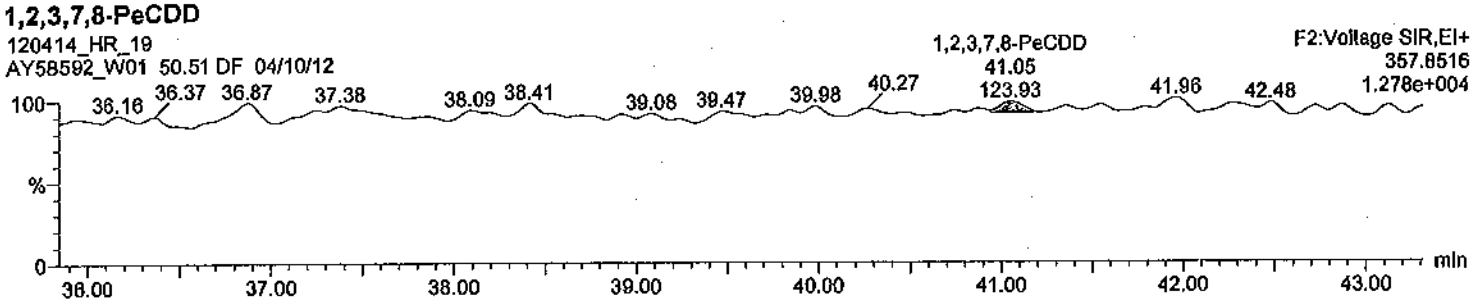


Name: 120414_HR_19, Date: 15-Apr-2012, Time: 12:24:31, ID: , Description: AY58592_W01 50.51 DF 04/10/12, User: RP

1,2,3,7,8-PeCDD



1,2,3,7,8-PeCDD



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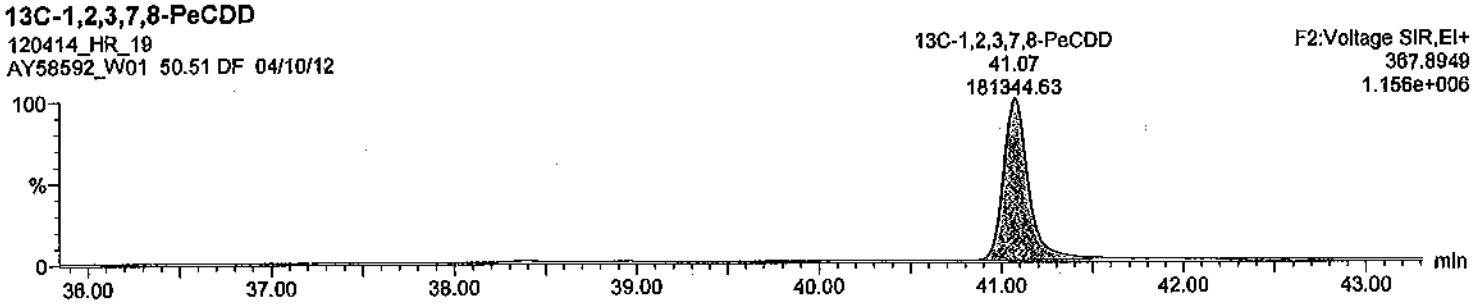

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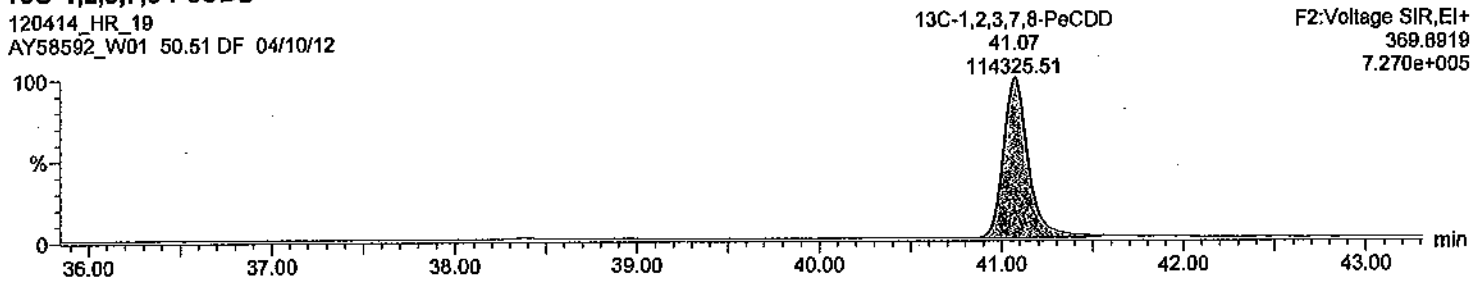

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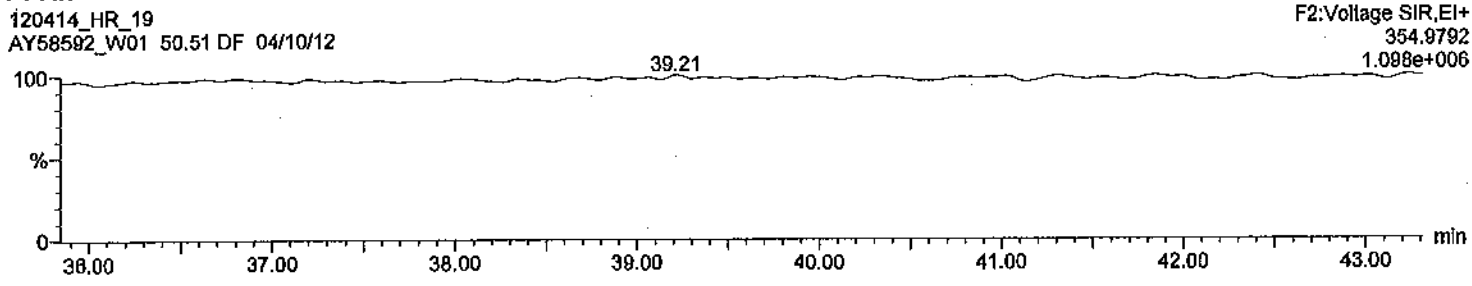
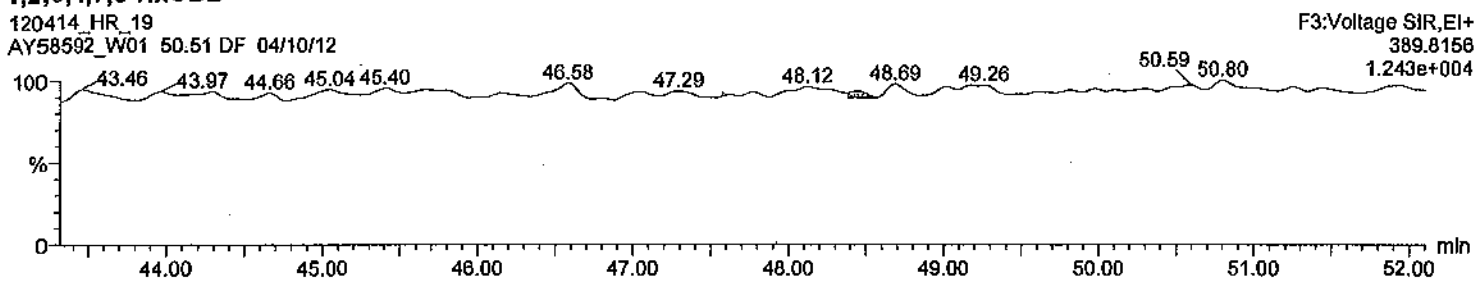
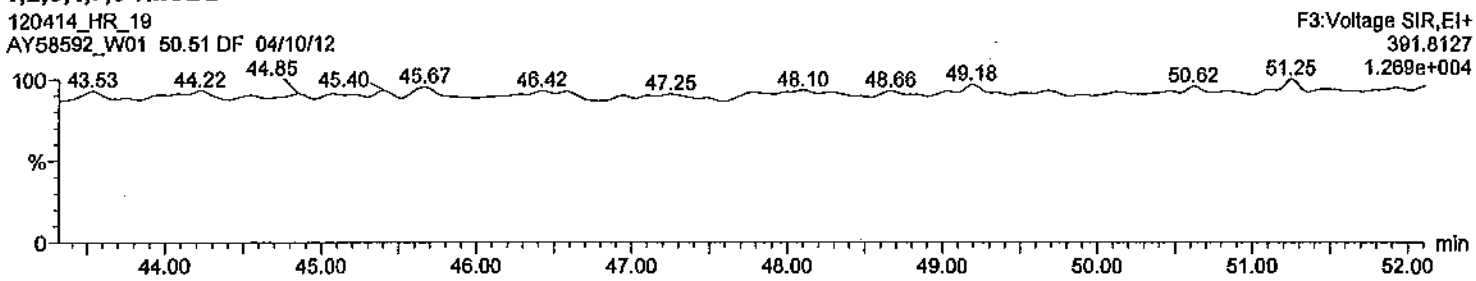


Name: 120414_HR_19, Date: 16-Apr-2012, Time: 12:24:31, ID: , Description: AY58592_W01 50.51 DF 04/10/12, User: RP

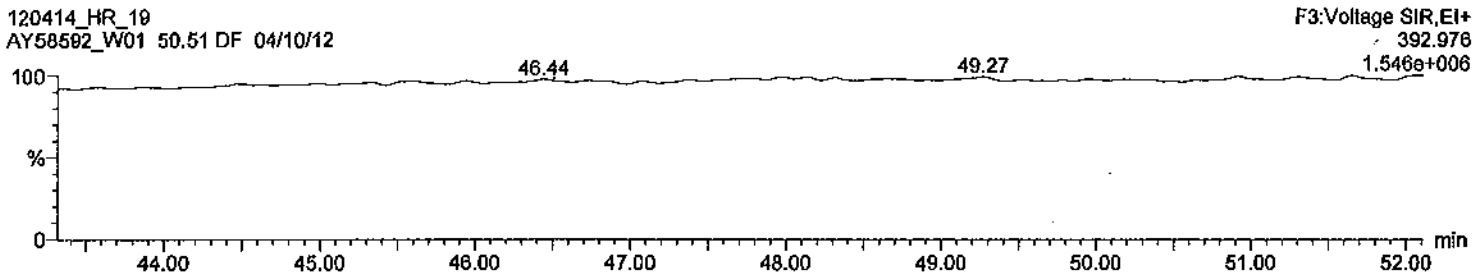
1,2,3,4,7,8-HxCDD



1,2,3,4,7,8-HxCDD

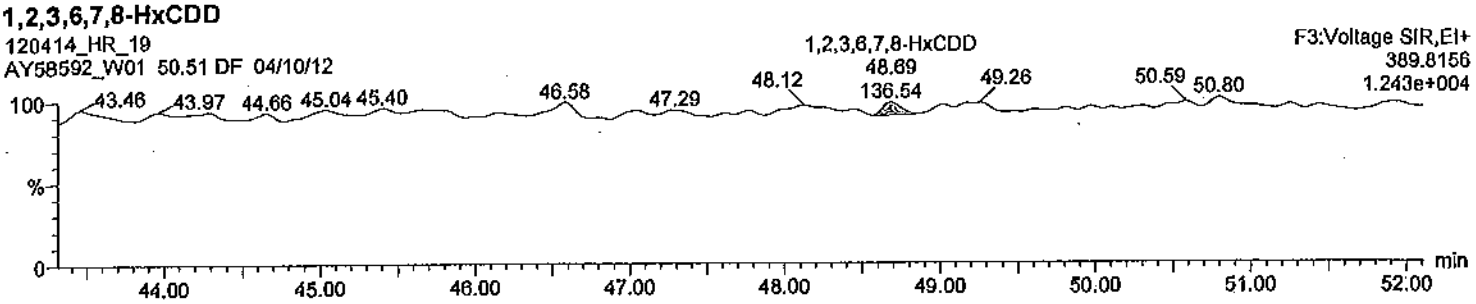


PFK3



Name: 120414_HR_19, Date: 16-Apr-2012, Time: 12:24:31, ID: , Description: AY58592_W01 50.51 DF 04/10/12, User: RP

1,2,3,6,7,8-HxCDD



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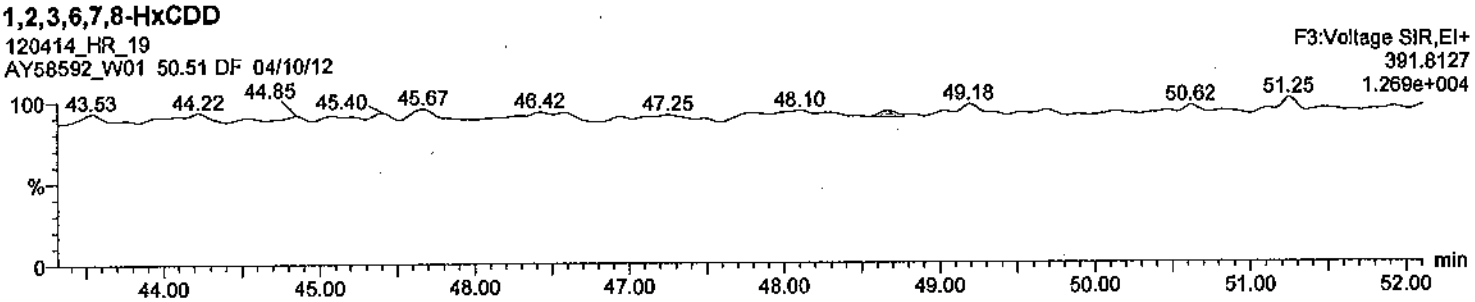

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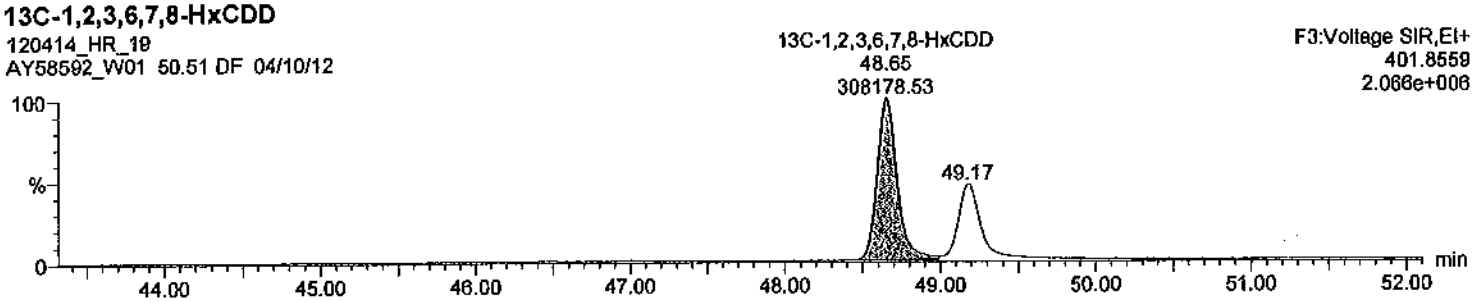

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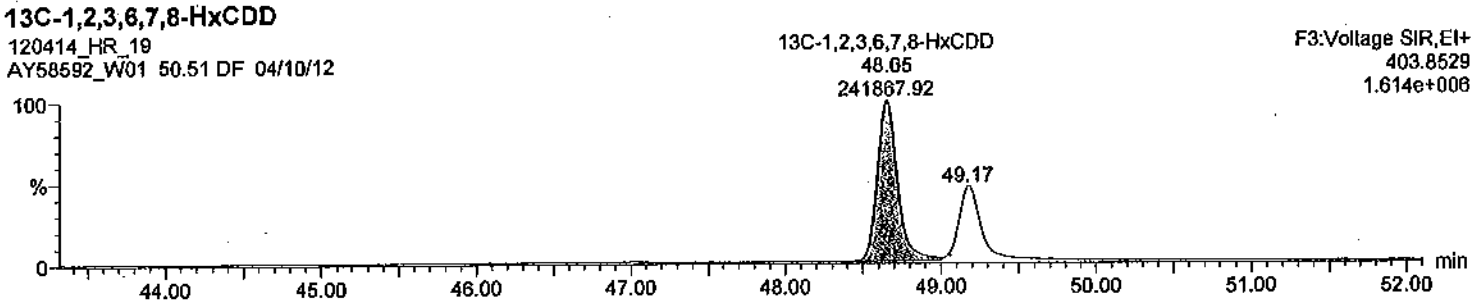

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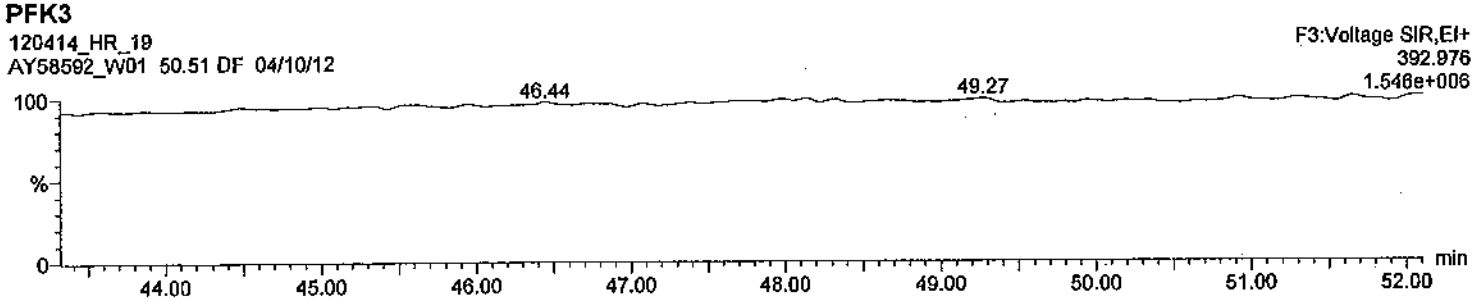

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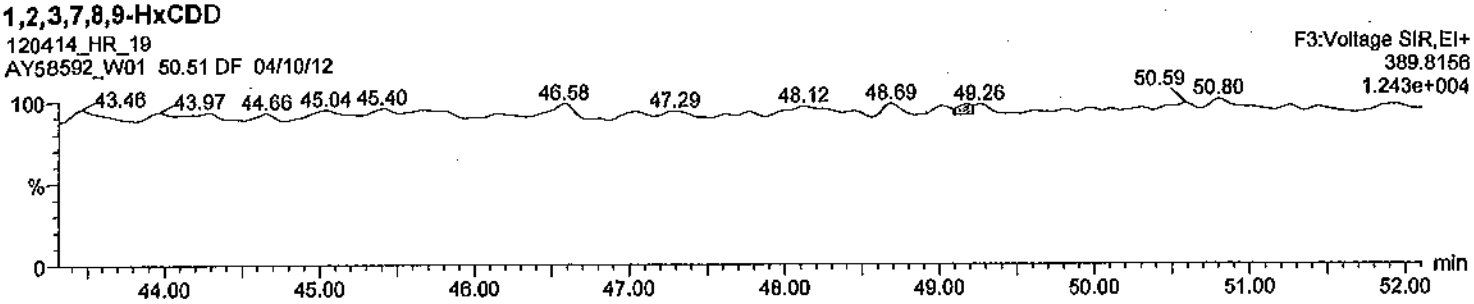
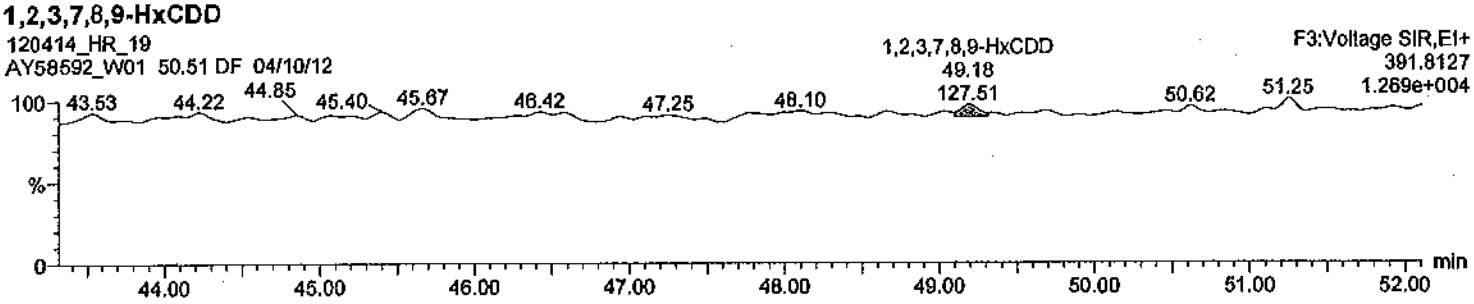
1,2,3,7,8,9-HxCDD



1,2,3,7,8,9-HxCDD



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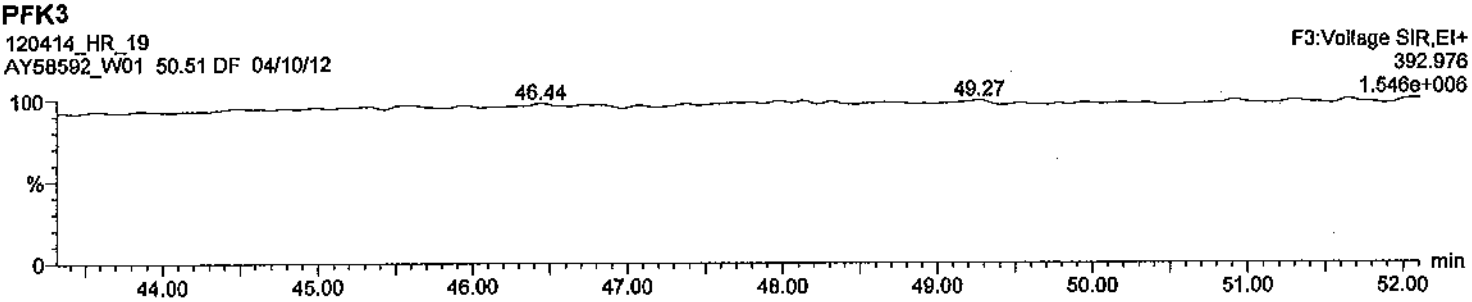

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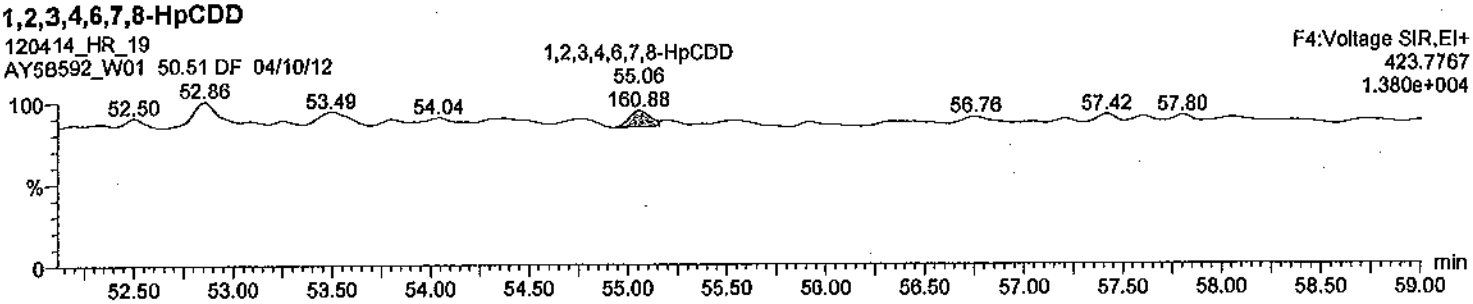
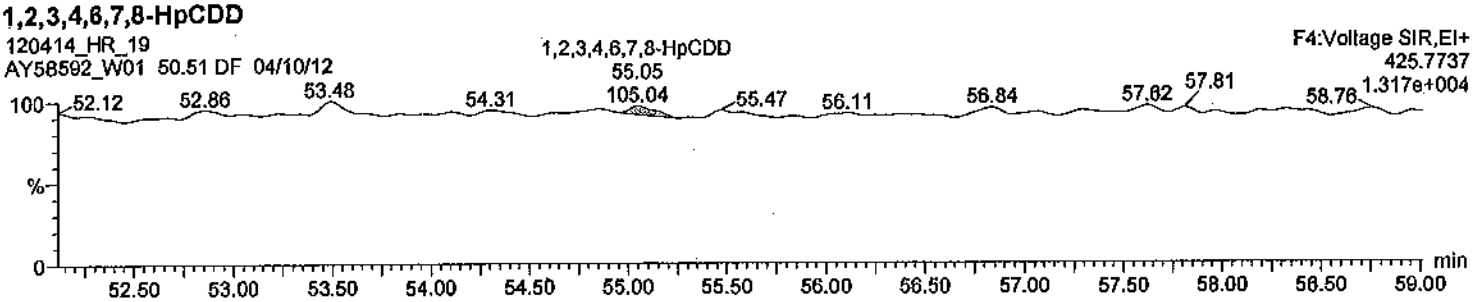
1,2,3,4,6,7,8-HpCDD



1,2,3,4,6,7,8-HpCDD



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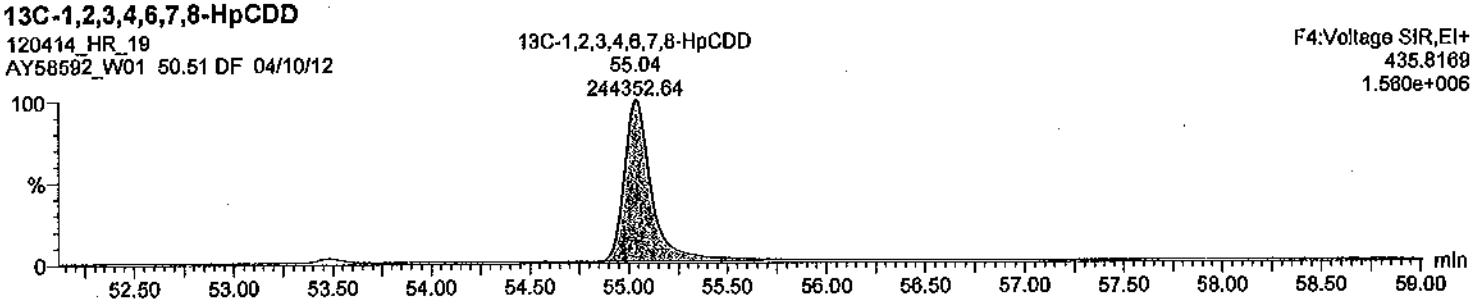

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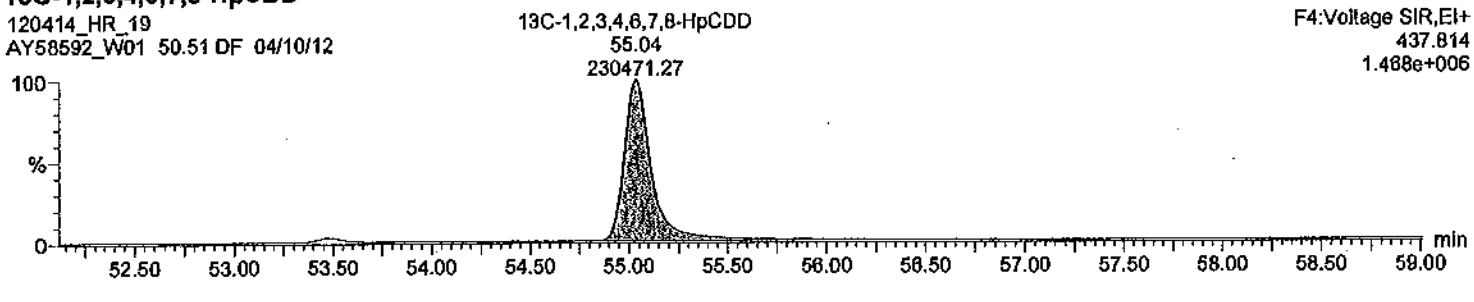
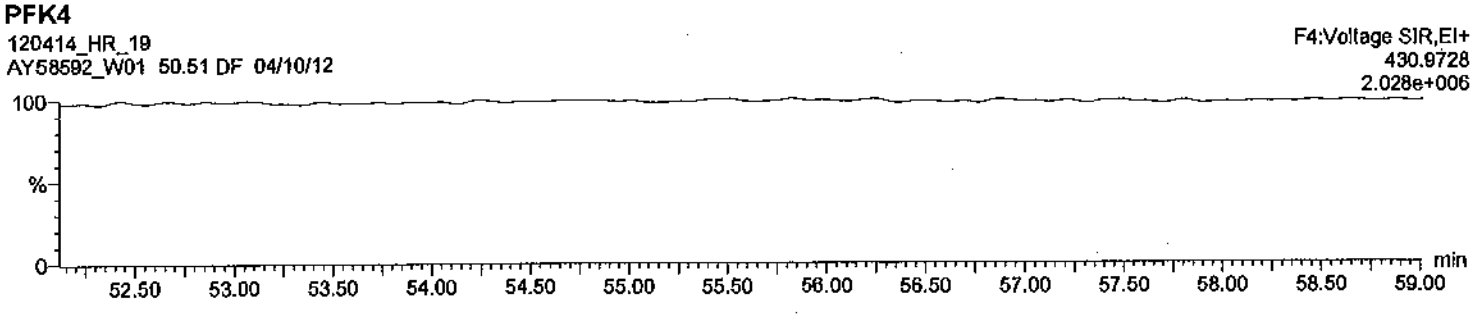


PFK4



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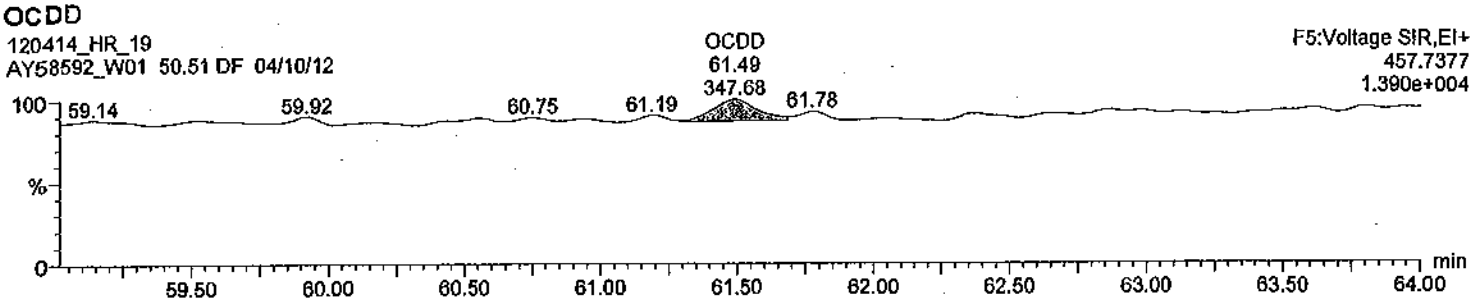
OCDD



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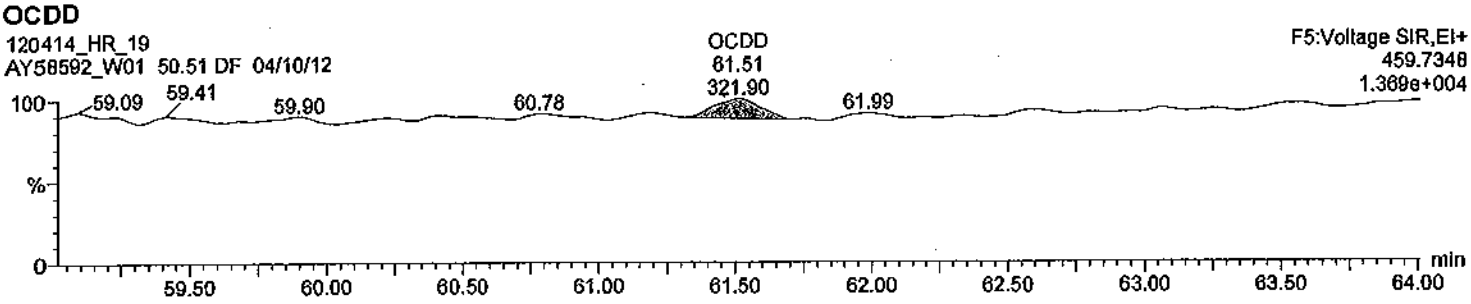

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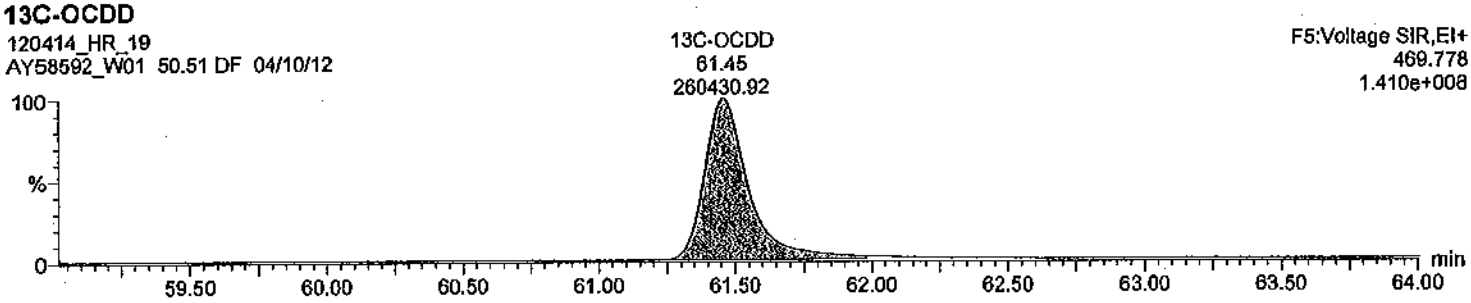

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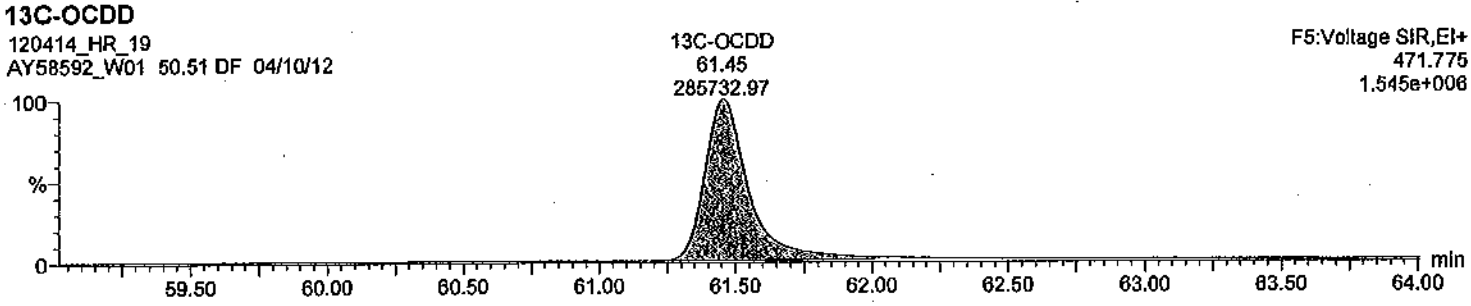

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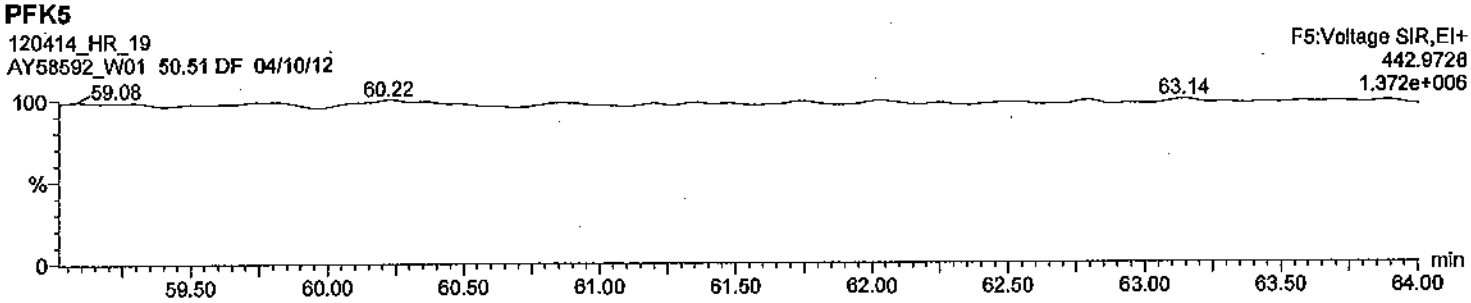

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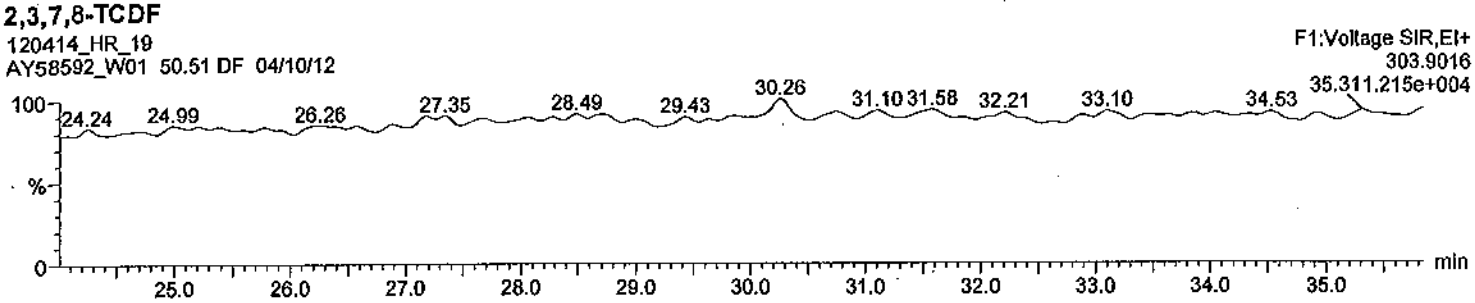
2,3,7,8-TCDF



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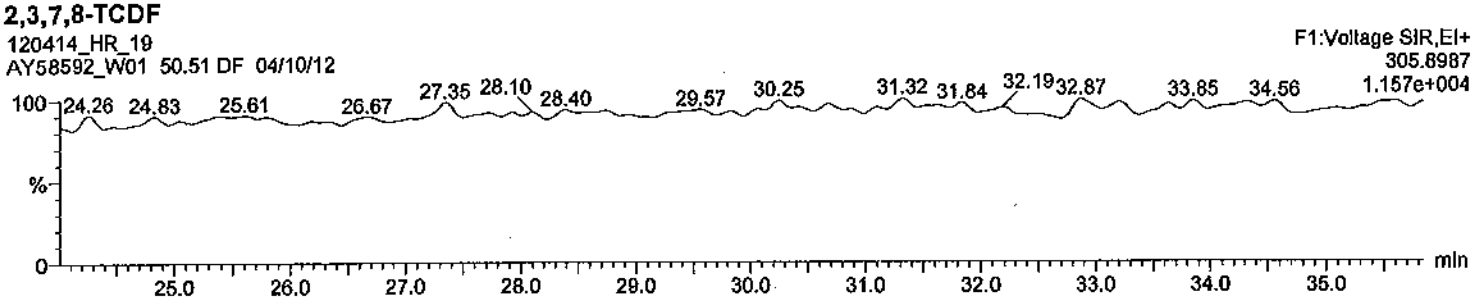

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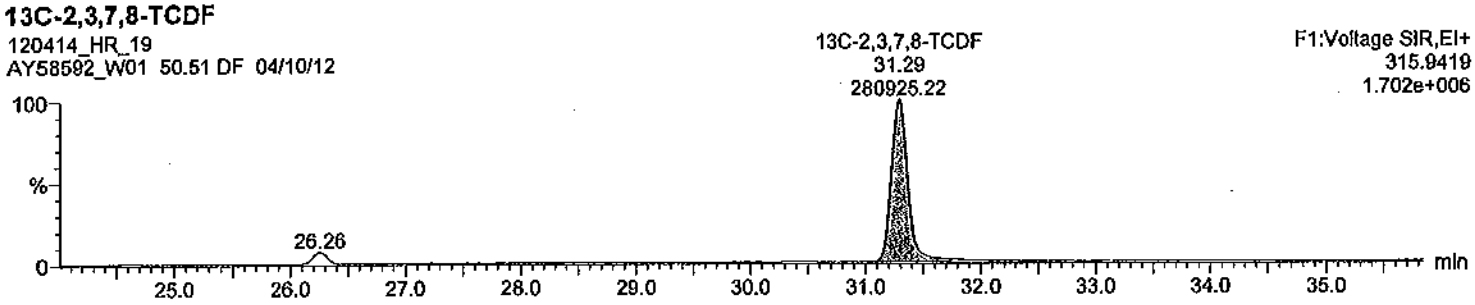

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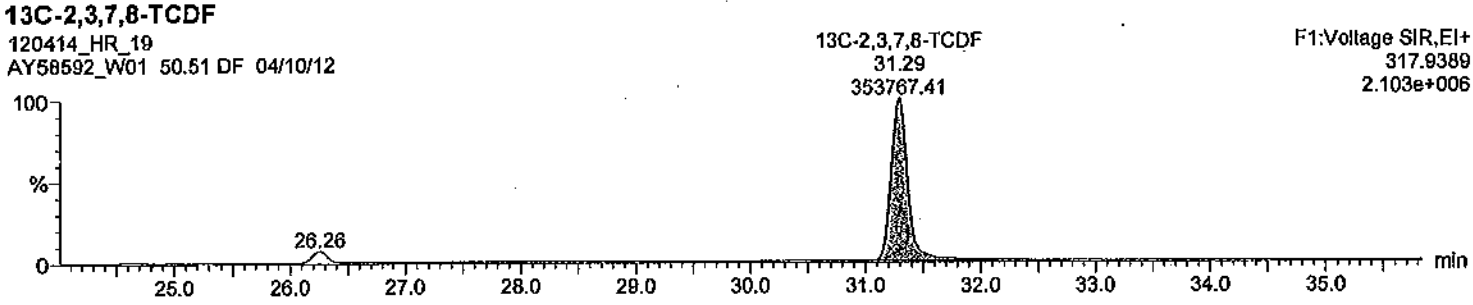

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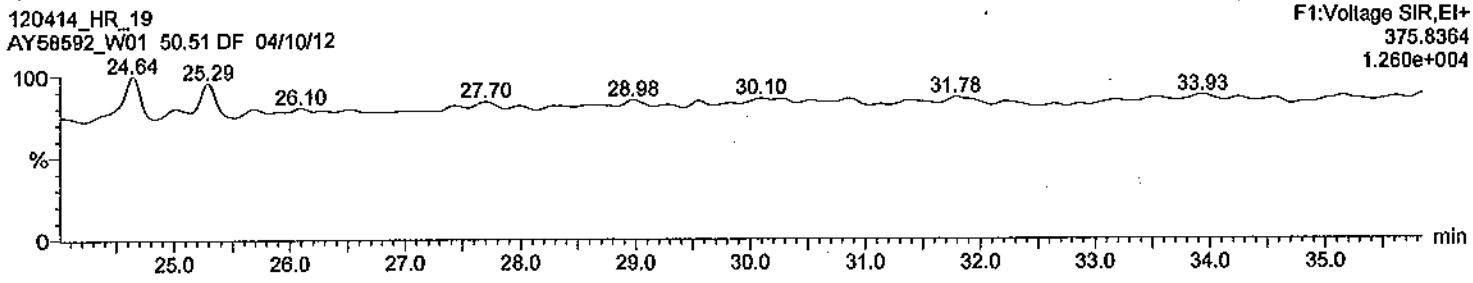

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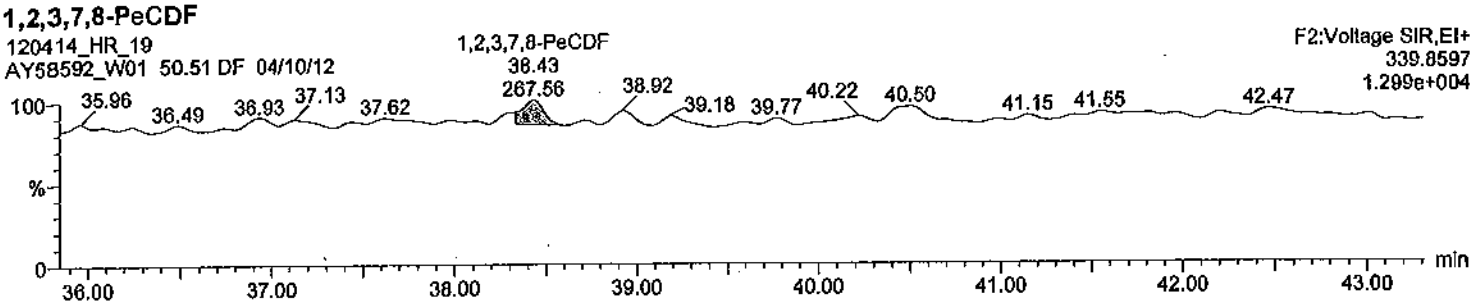
1,2,3,7,8-PeCDF



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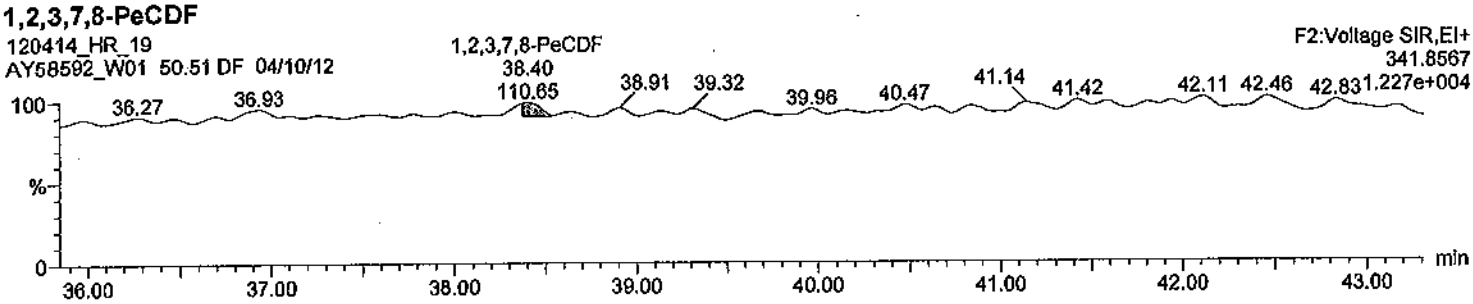

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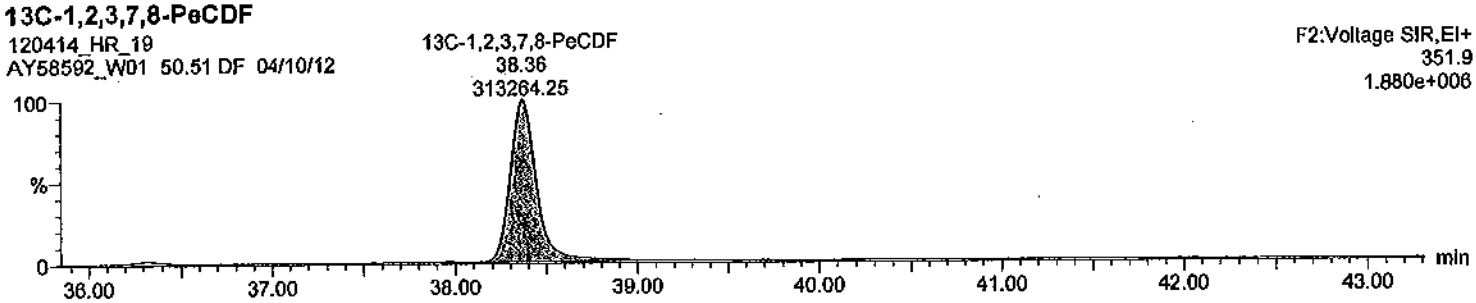

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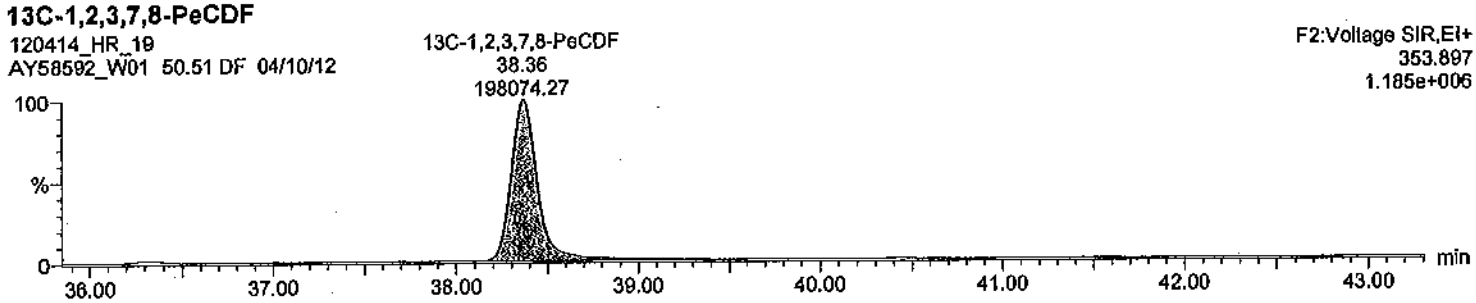

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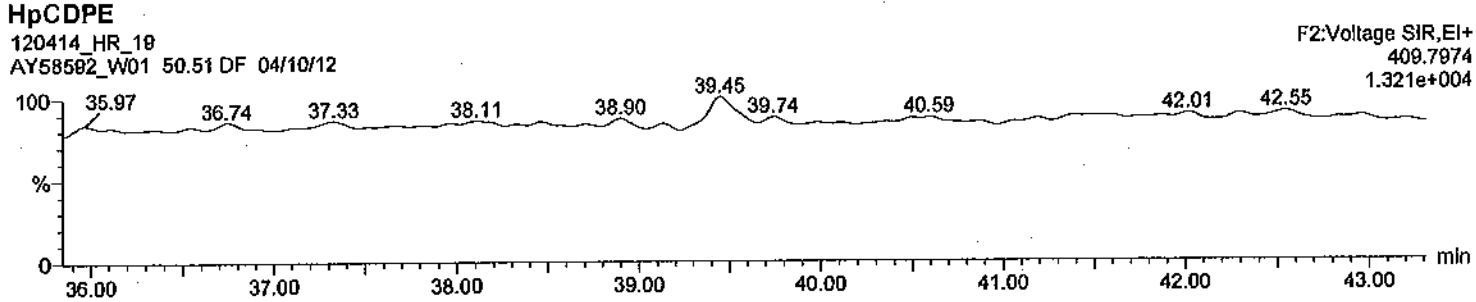

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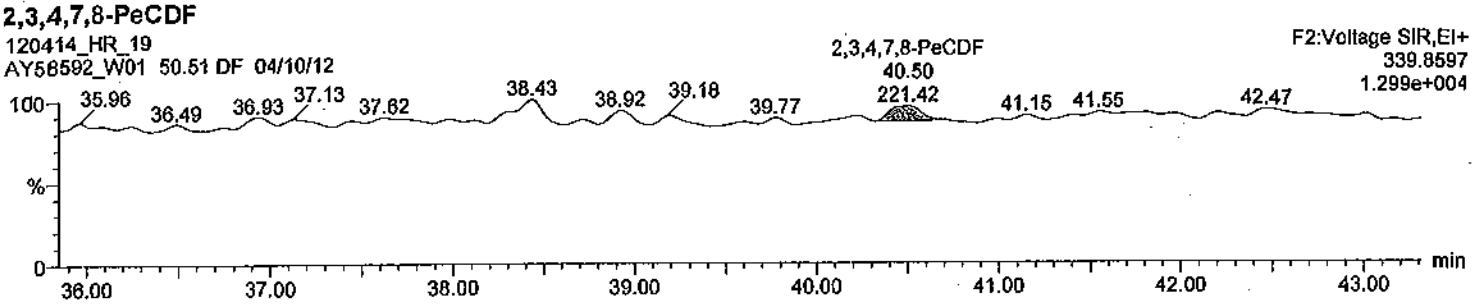
2,3,4,7,8-PeCDF



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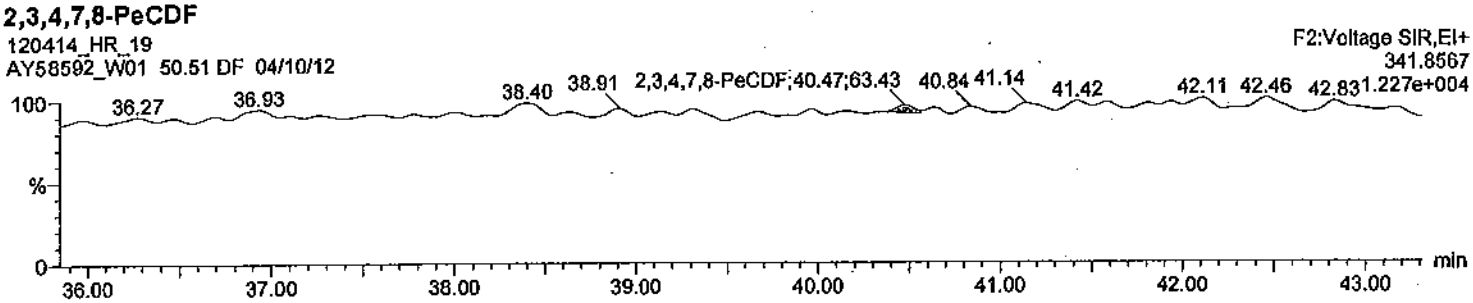

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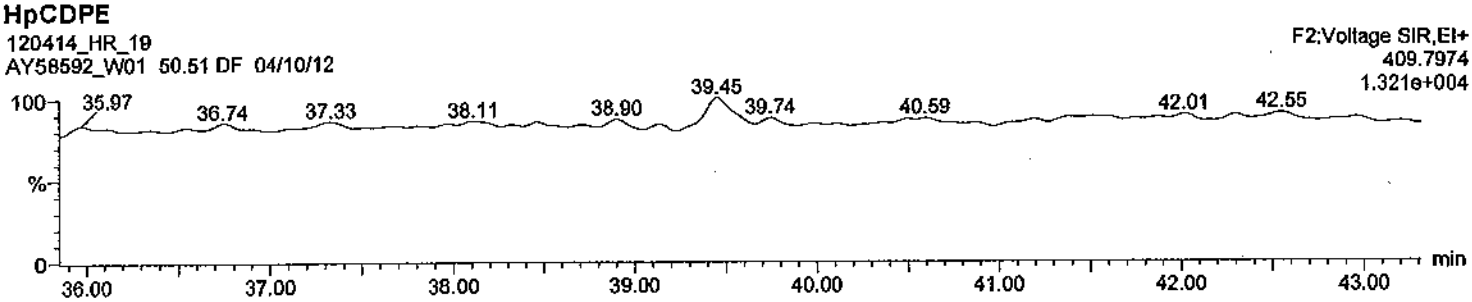

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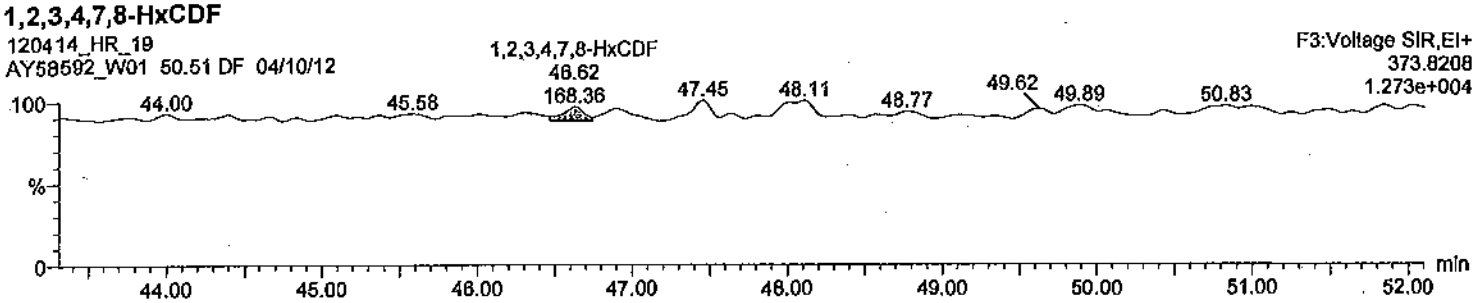
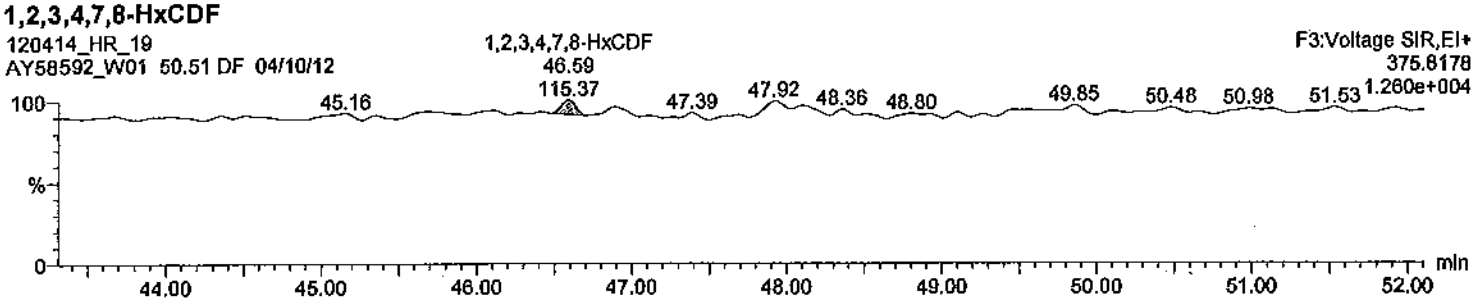
1,2,3,4,7,8-HxCDF



1,2,3,4,7,8-HxCDF



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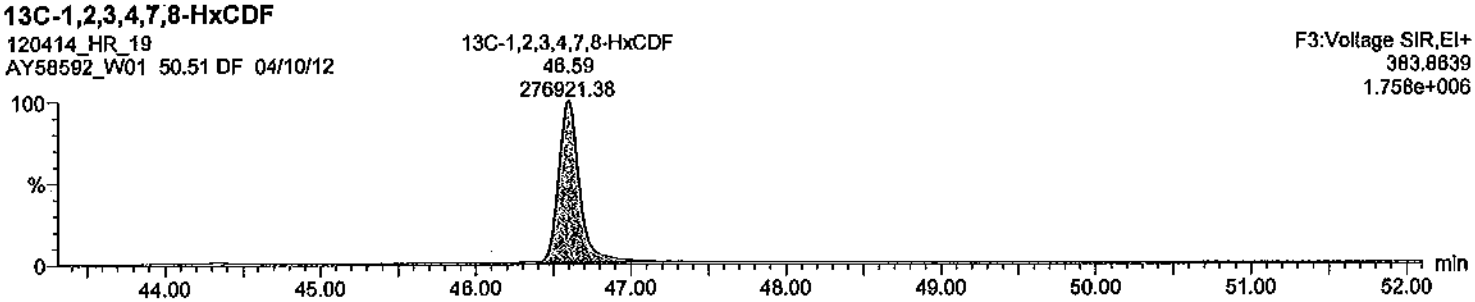

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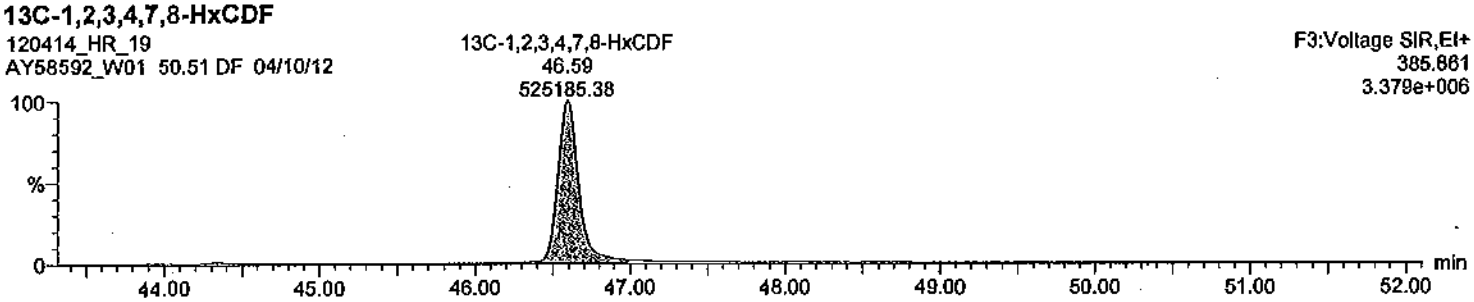
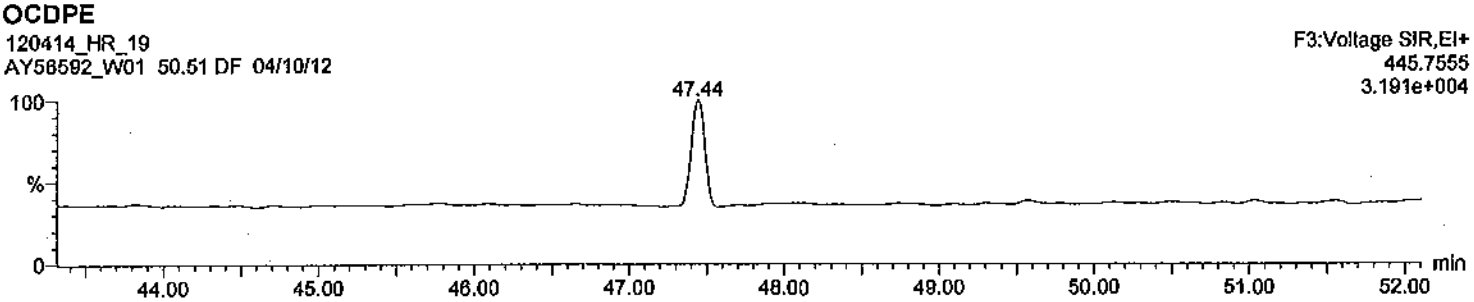


OCDPE



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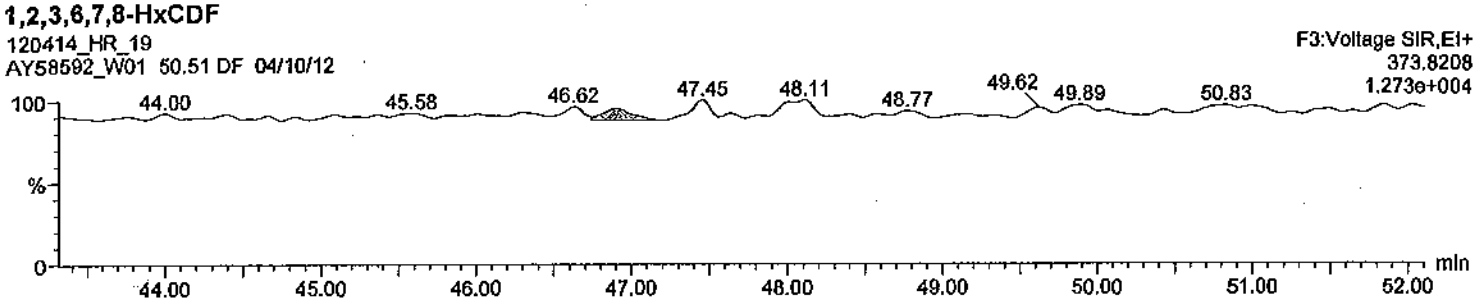
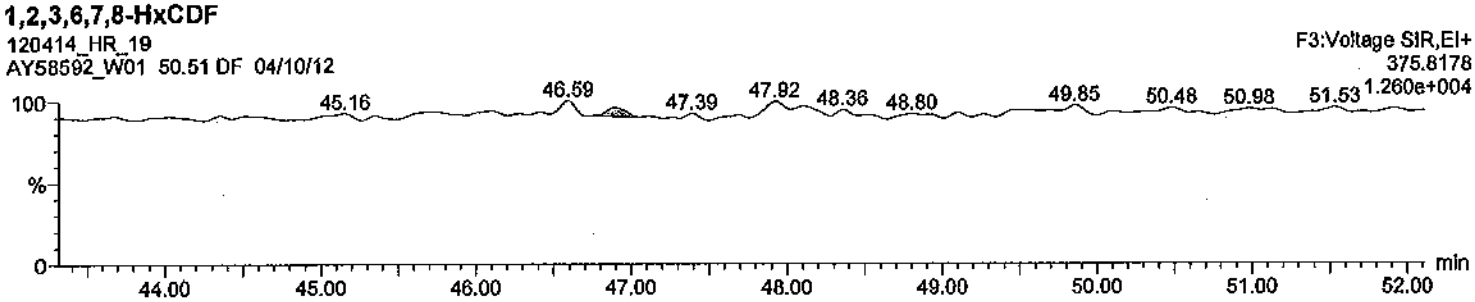
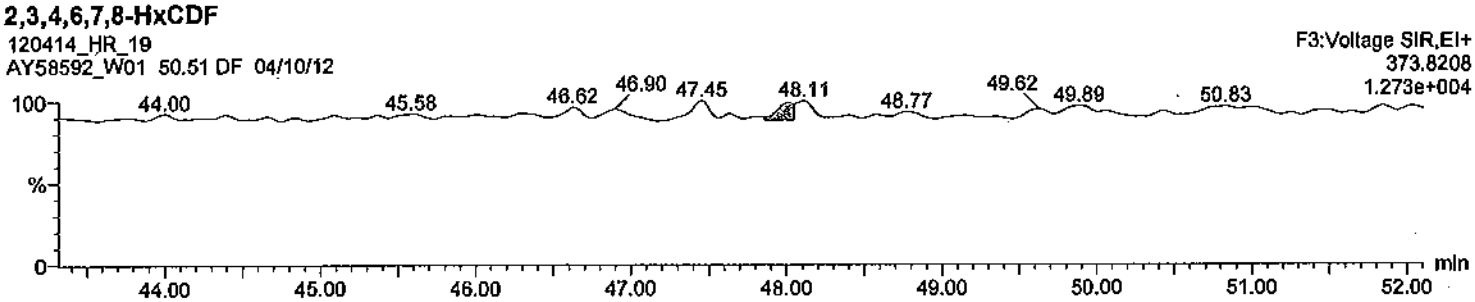
1,2,3,6,7,8-HxCDF



1,2,3,6,7,8-HxCDF



2,3,4,6,7,8-HxCDF



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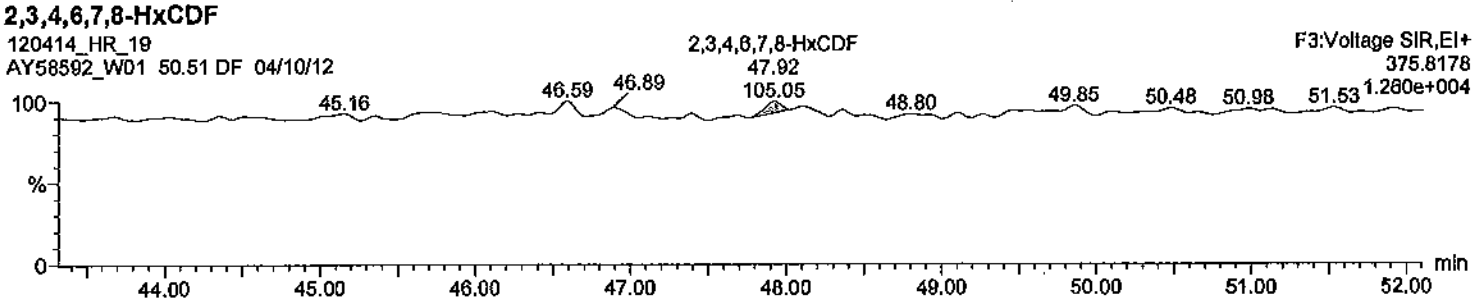
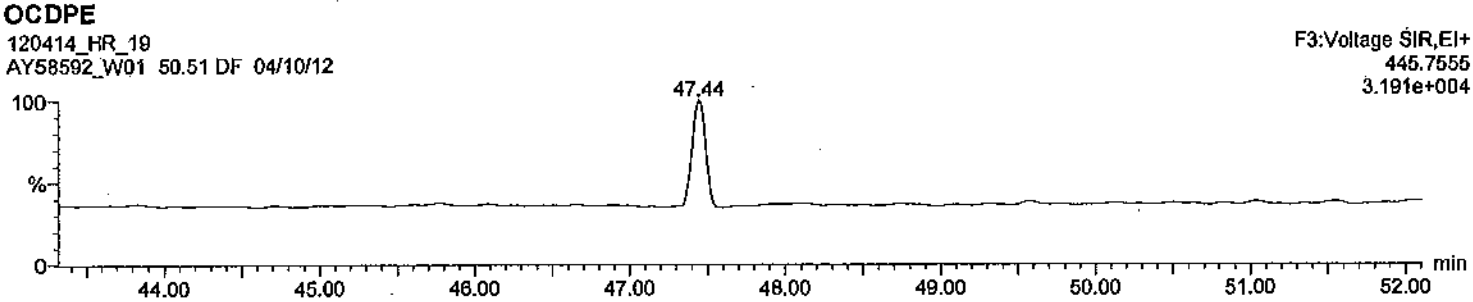
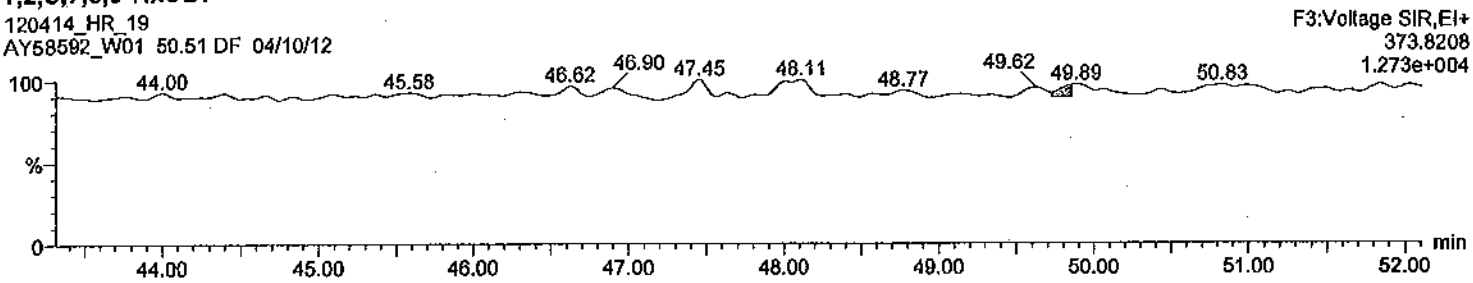


OCDPE

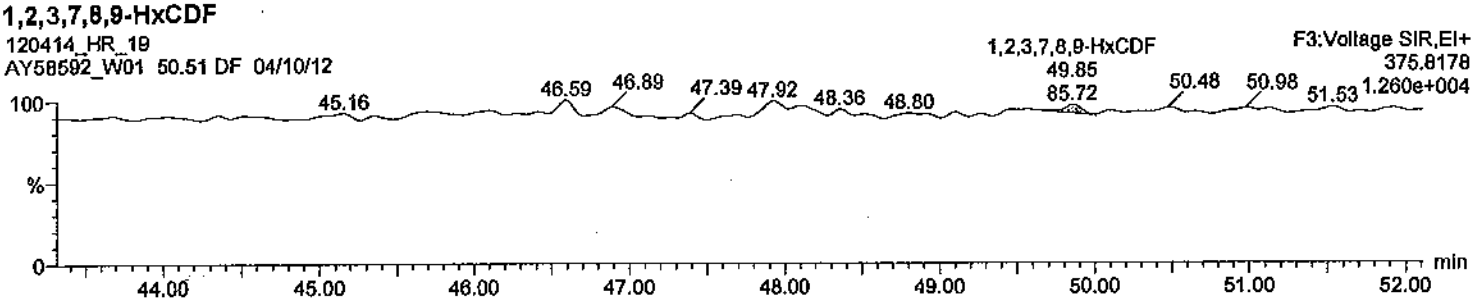


Name: 120414_HR_19, Date: 16-Apr-2012, Time: 12:24:31, ID: , Description: AY58592_W01 50.51 DF 04/10/12, User: RP

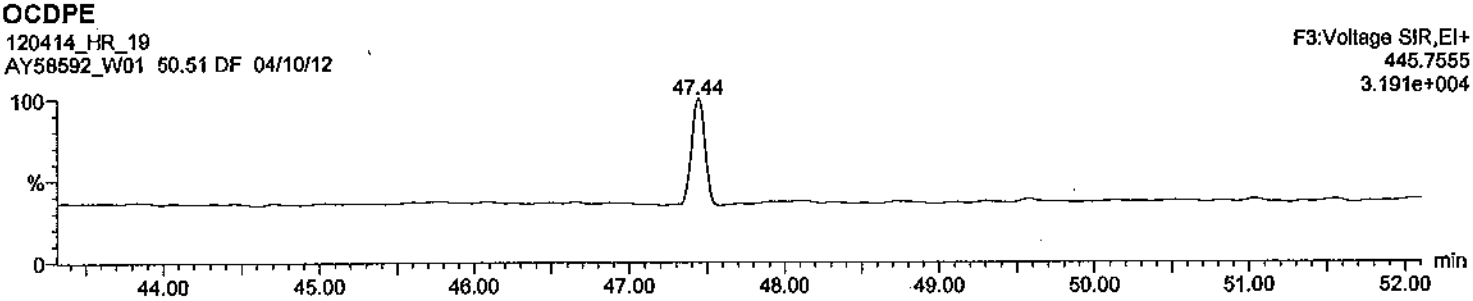
1,2,3,7,8,9-HxCDF



1,2,3,7,8,9-HxCDF



OCDPE



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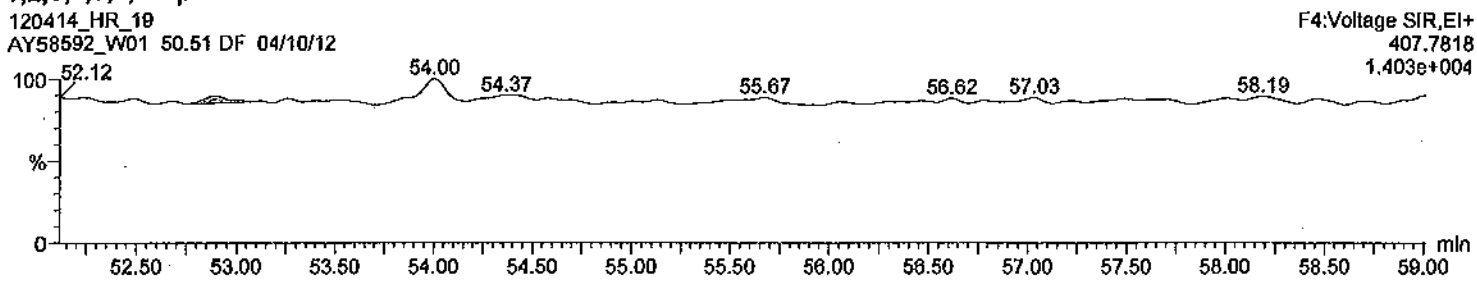
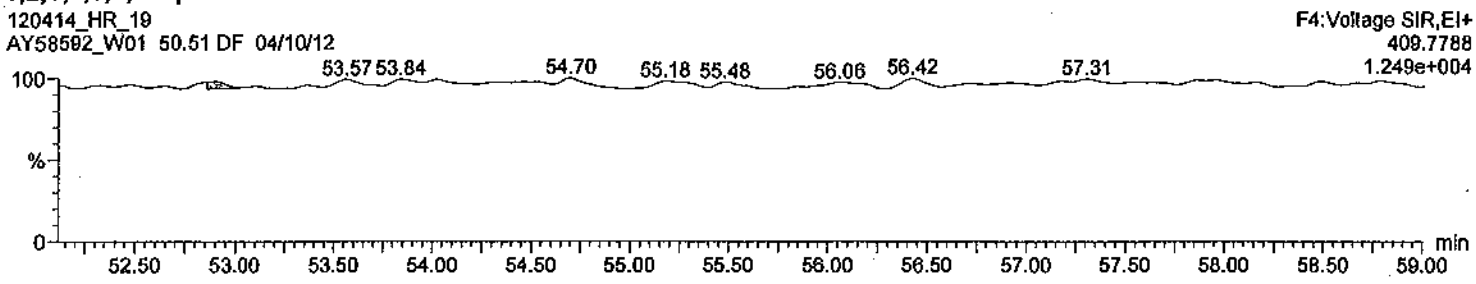
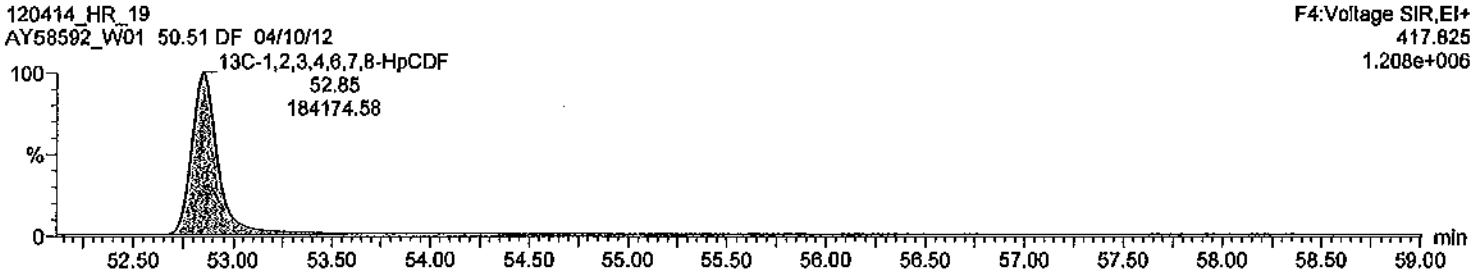
1,2,3,4,6,7,8-HpCDF



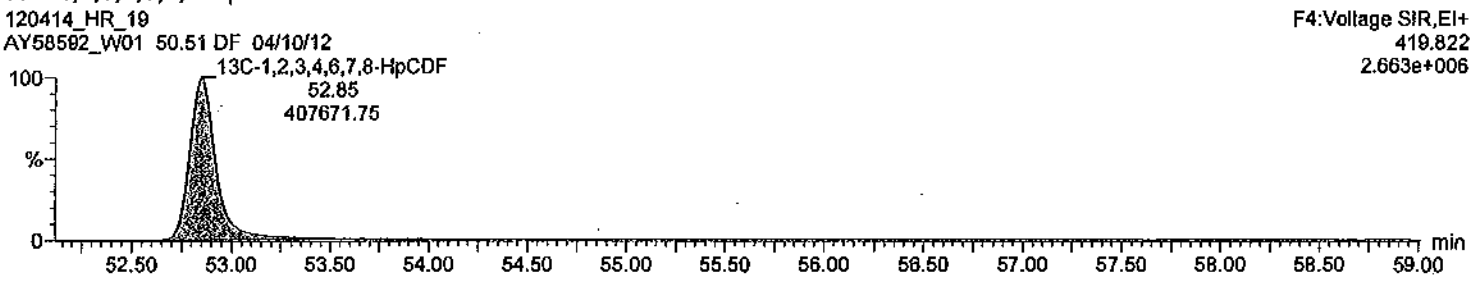
1,2,3,4,6,7,8-HpCDF



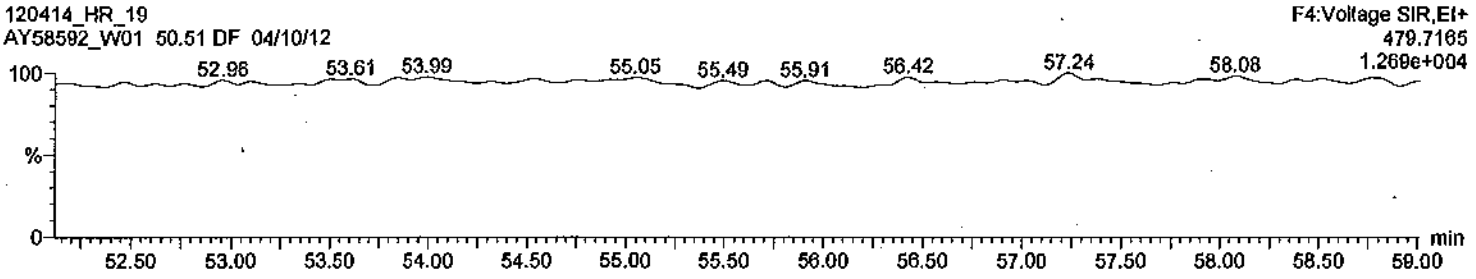
13C-1,2,3,4,6,7,8-HpCDF



13C-1,2,3,4,6,7,8-HpCDF

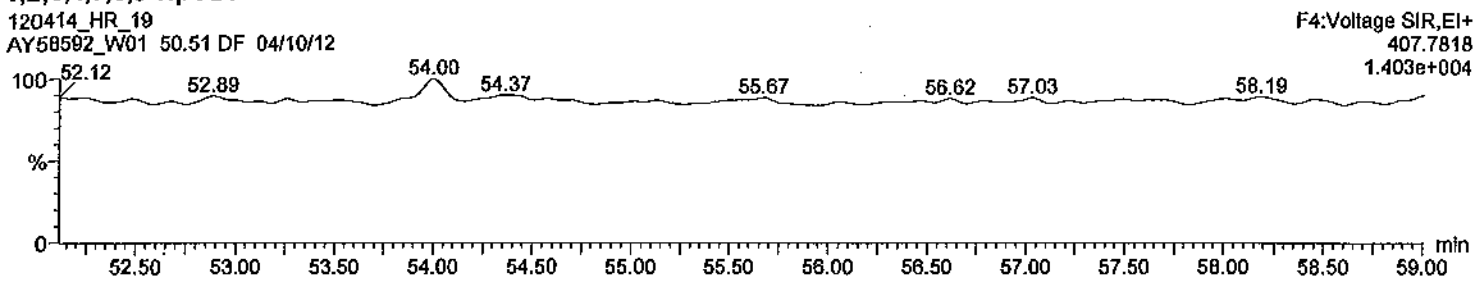


NCDPE

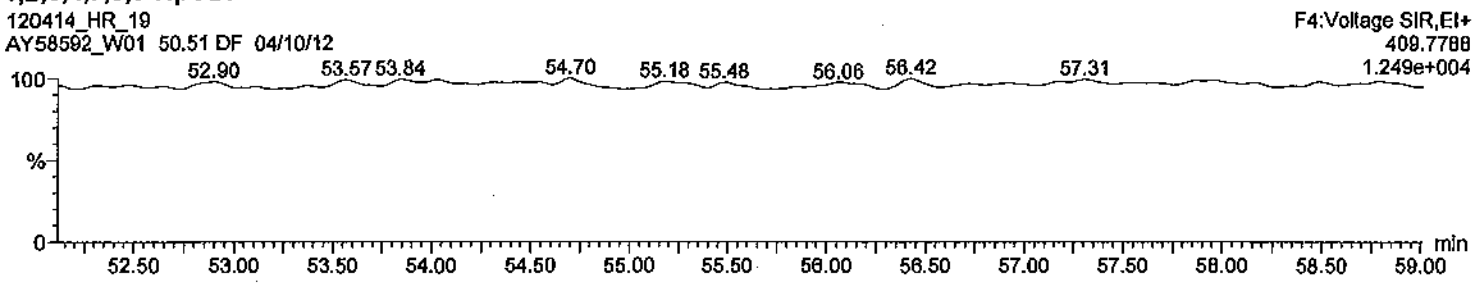


Name: 120414_HR_19, Date: 15-Apr-2012, Time: 12:24:31, ID: , Description: AY58592_W01 50.51 DF 04/10/12, User: RP

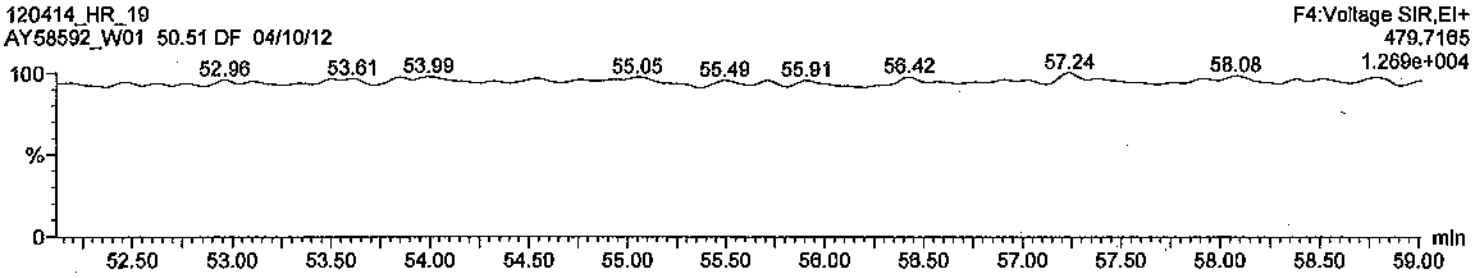
1,2,3,4,7,8,9-HpCDF



1,2,3,4,7,8,9-HpCDF

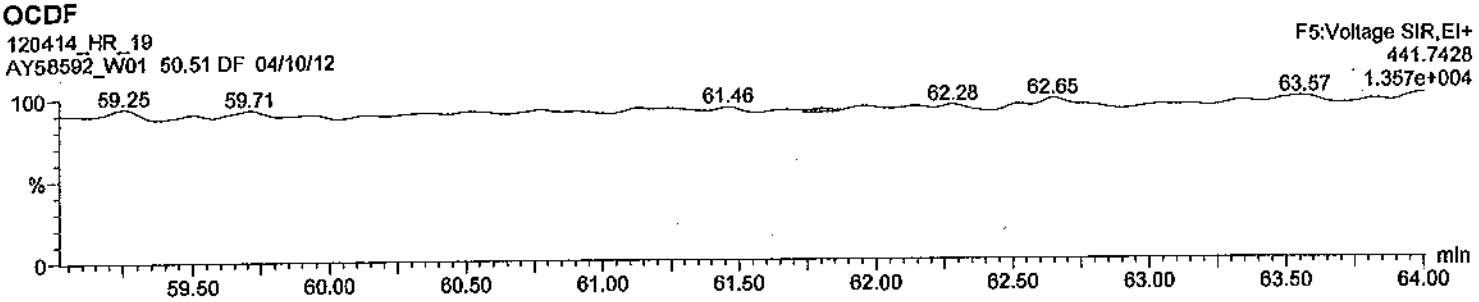


NCDPE

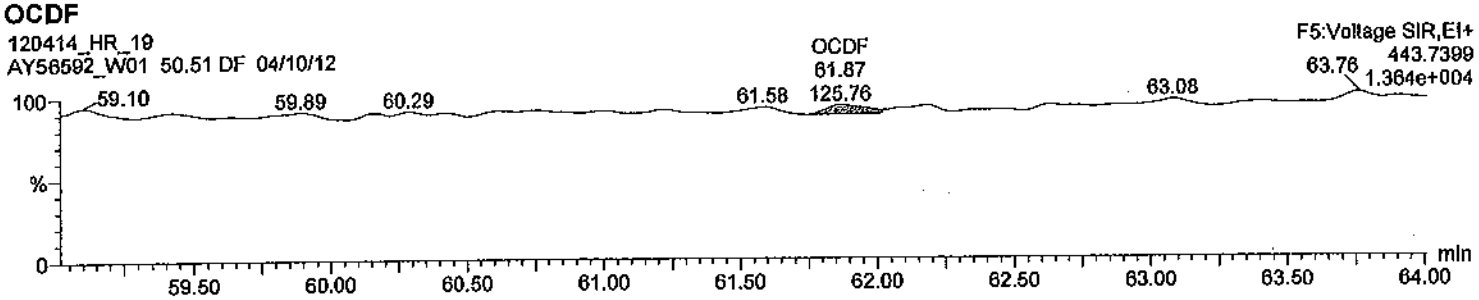


Name: 120414_HR_19, Date: 15-Apr-2012, Time: 12:24:31, ID: , Description: AY58592_W01 50.51 DF 04/10/12, User: RP

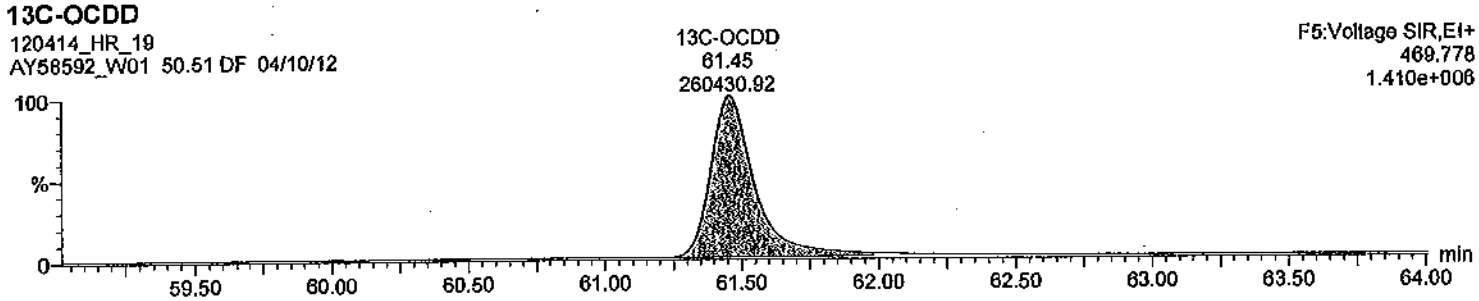
OCDF



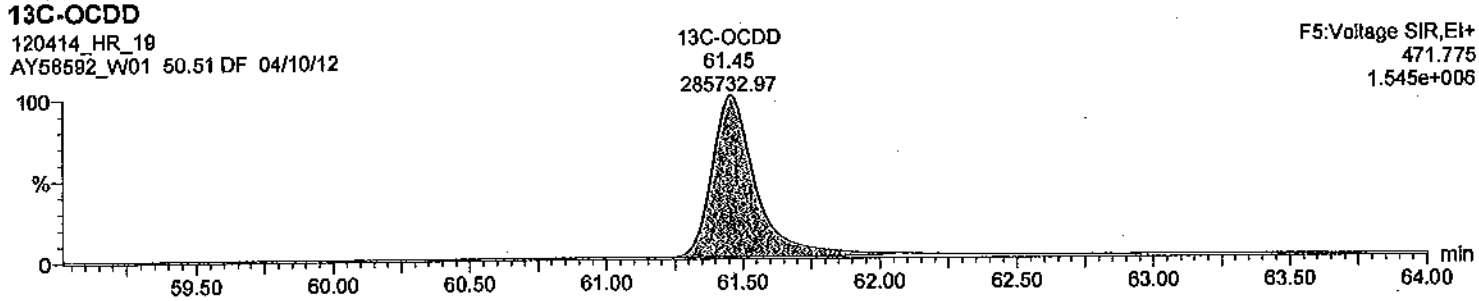
OCDF



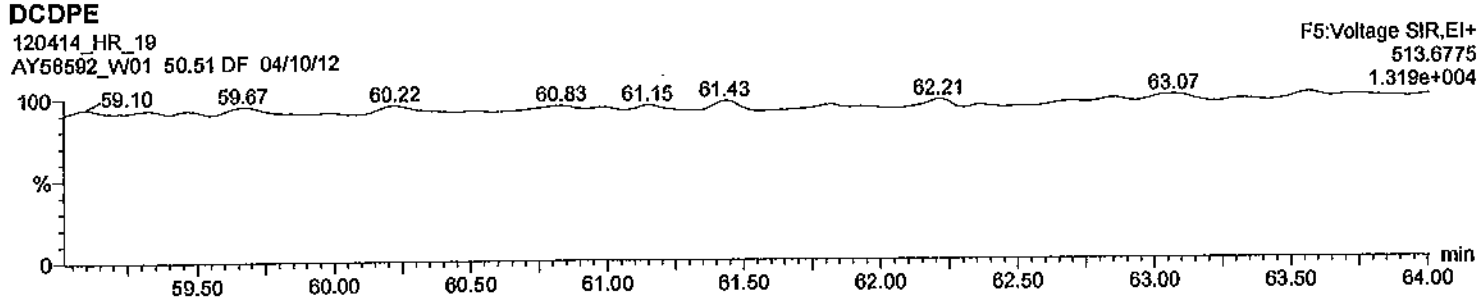
13C-OCDD



13C-OCDD



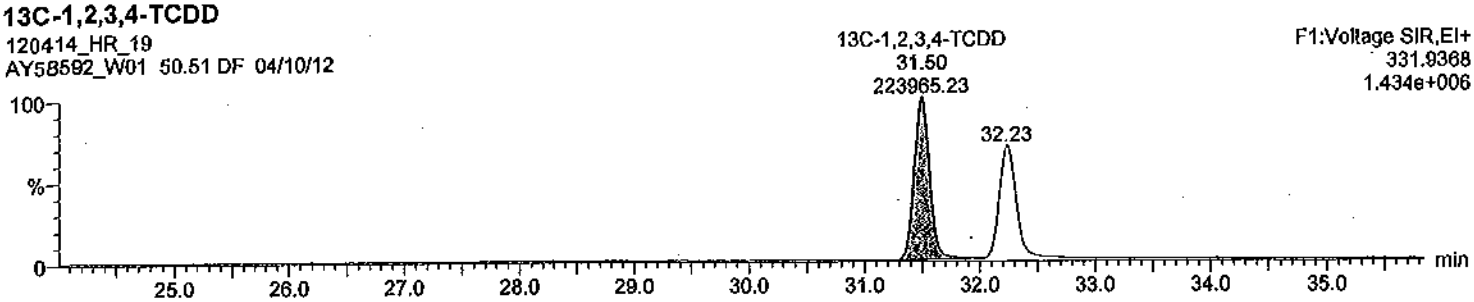
DCDPE



Name: 120414_HR_19, Date: 15-Apr-2012, Time: 12:24:31, ID: , Description: AY58592_W01 50.51 DF 04/10/12, User: RP

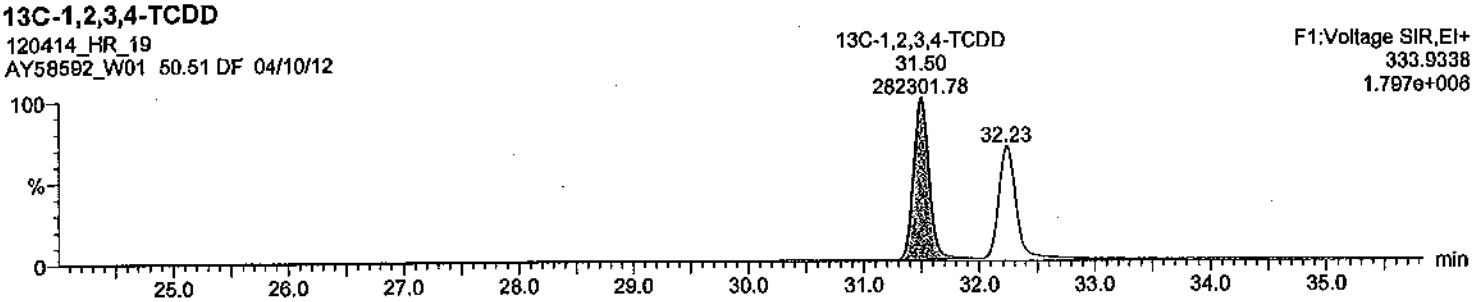
13C-1,2,3,4-TCDD

120414_HR_19
AY58592_W01 50.51 DF 04/10/12



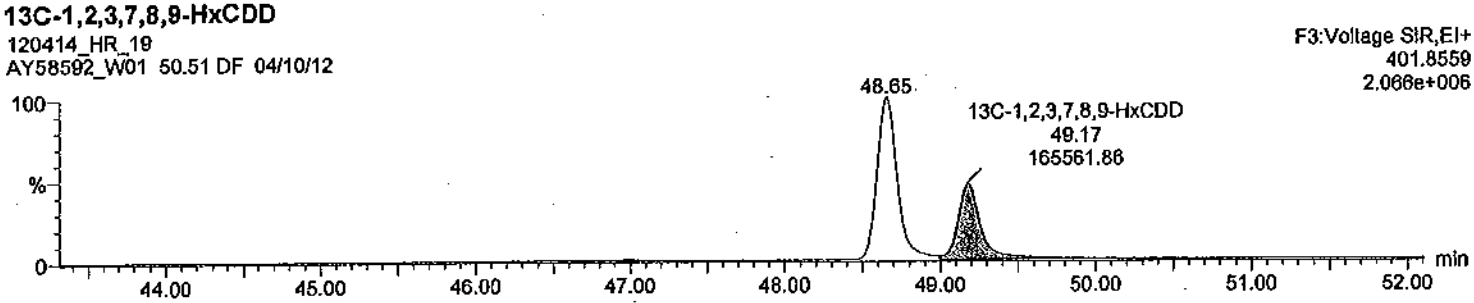
13C-1,2,3,4-TCDD

120414_HR_19
AY58592_W01 50.51 DF 04/10/12



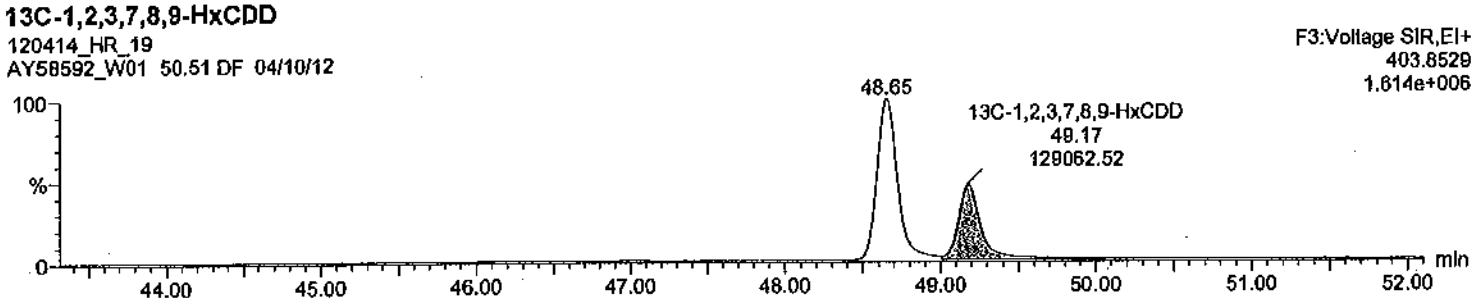
13C-1,2,3,7,8,9-HxCDD

120414_HR_19
AY58592_W01 50.51 DF 04/10/12



13C-1,2,3,7,8,9-HxCDD

120414_HR_19
AY58592_W01 50.51 DF 04/10/12



May 18, 2012

Daniel Jablonski
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612

TEL: (213)228-8271
FAX: (510) 622-9129

CA-ELAP No.: 2676
NV Cert. No.: NV-009222007A

Workorder No.: N007823

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on May 08, 2012 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

for gsgesmundo

Jose Tenorio Jr.
Laboratory Director

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N007823

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Samples were analyzed within method holding time.

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Subcontracted Analyses:

Phenols by EPA 420.1 and Settleable Solids by SM 2540F were subcontracted to Advanced Technology Laboratories-Signal Hill, CA .

Advanced Technology Laboratories, Inc.
3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Lab Order: N007823
Project: SFPP - Norwalk Site
Lab ID: N007823-001

Client Sample ID: EFF-05-08
Collection Date: 5/8/2012 12:30:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **WETCHEM_120510F**	QC Batch: **39747**			PrepDate:	**5/10/2012**		Analyst: **KAB**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	5/10/2012
HEXANE EXTRACTABLE MATERIAL (HEM)							
			EPA 1664 _HEM				
RunID: **WETCHEM_120515B**	QC Batch: **39770**			PrepDate:	**5/15/2012**		Analyst: **QBM**
Oil & Grease	ND	1.2	4.2		mg/L	1	5/15/2012
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_120509A**	QC Batch: **P12VW024**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethane	ND	0.13	0.50		µg/L	1	5/9/2012 02:17 PM
1,2-Dichloroethane	ND	0.10	0.50		µg/L	1	5/9/2012 02:17 PM
Benzene	ND	0.11	1.0		µg/L	1	5/9/2012 02:17 PM
Ethylbenzene	ND	0.13	1.0		µg/L	1	5/9/2012 02:17 PM
m,p-Xylene	ND	0.16	1.0		µg/L	1	5/9/2012 02:17 PM
MTBE	ND	0.089	1.0		µg/L	1	5/9/2012 02:17 PM
o-Xylene	ND	0.10	1.0		µg/L	1	5/9/2012 02:17 PM
Tert-Butanol	ND	3.0	5.0		µg/L	1	5/9/2012 02:17 PM
Toluene	ND	0.082	2.0		µg/L	1	5/9/2012 02:17 PM
Xylenes, Total	ND	1.5	2.0		µg/L	1	5/9/2012 02:17 PM
Surr: 1,2-Dichloroethane-d4	96.5	0	72-119		%REC	1	5/9/2012 02:17 PM
Surr: 4-Bromofluorobenzene	99.9	0	76-119		%REC	1	5/9/2012 02:17 PM
Surr: Dibromofluoromethane	95.7	0	85-115		%REC	1	5/9/2012 02:17 PM
Surr: Toluene-d8	100	0	81-120		%REC	1	5/9/2012 02:17 PM
TPH-FUEL PRODUCT BY GC/FID							
		EPA 3510C	**EPA 8015B**				
RunID: **GC3_120511B**	QC Batch: **39750**			PrepDate:	**5/11/2012**		Analyst: **MDM**
TPH-Diesel (C13-C22)	ND	13	50		ug/L	1	5/11/2012 08:21 PM
TPH-Oil (C23-C36)	ND	9.6	50		ug/L	1	5/11/2012 08:21 PM
Surr: Octacosane	81.6	0	26-152		%REC	1	5/11/2012 08:21 PM
Surr: p-Terphenyl	81.7	0	57-132		%REC	1	5/11/2012 08:21 PM
GASOLINE RANGE ORGANICS BY GC/FID							
			EPA 8015B				
RunID: **GC4_120509A**	QC Batch: **E12VW020**			PrepDate:			Analyst: **MCS**

Qualifiers:

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	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT: CH2M HILL
Lab Order: N007823
Project: SFPP - Norwalk Site
Lab ID: N007823-001

Client Sample ID: EFF-05-08
Collection Date: 5/8/2012 12:30:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID							
EPA 8015B							
RunID: **GC4_120509A** QC Batch: **E12VW020** PrepDate: Analyst: **MCS**							
TPH-Gasoline (C4-C12)	ND	8.5	100		µg/L	1	5/9/2012
Surr: Chlorobenzene - d5	109	0	74-138		%REC	1	5/9/2012
HEXAVALENT CHROMIUM BY IC							
EPA 7199							
RunID: **IC1_120509A** QC Batch: **R84207** PrepDate: Analyst: **QBM**							
Hexavalent Chromium	0.027	0.014	0.20	J	µg/L	1	5/9/2012 11:31 AM
MERCURY BY COLD VAPOR TECHNIQUE							
EPA 245.1							
RunID: **AA1_120515A** QC Batch: **39772** PrepDate: **5/14/2012** Analyst: **CEI**							
Mercury	ND	0.026	0.050		µg/L	1	5/15/2012
ICP-MS METALS BY COLLISION/REACTION CELL							
EPA 200.8							
RunID: **ICP7_120511A** QC Batch: **39755** PrepDate: **5/11/2012** Analyst: **CEI**							
Selenium	0.20	0.084	0.50	J	µg/L	1	5/11/2012 07:23 PM
ICPMS METALS							
EPA 200.8							
RunID: **ICP7_120511A** QC Batch: **39755** PrepDate: **5/11/2012** Analyst: **CEI**							
Copper	1.5	0.14	0.50		µg/L	1	5/11/2012 07:23 PM
Lead	3.8	0.15	0.50		µg/L	1	5/11/2012 07:23 PM
Thallium	ND	0.075	0.50		µg/L	1	5/11/2012 07:23 PM
Zinc	3.7	1.3	10	J	µg/L	1	5/11/2012 07:23 PM
TOTAL TPH							
EPA 8015B							
RunID: **GC3_120511B** QC Batch: **R84241** PrepDate: Analyst: **MDM**							
Total TPH	ND	13	100		ug/L	1	5/11/2012

Qualifiers:

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	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT: CH2M HILL
Work Order: N007823
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: **MB-39747** SampType: **MBLK** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **5/10/2012** RunNo: **84257**
Client ID: **PBW** Batch ID: **39747** TestNo: **SM2540D** Analysis Date: **5/10/2012** SeqNo: **1394300**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filtera	ND	10									

Sample ID: **LCS-39747** SampType: **LCS** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **5/10/2012** RunNo: **84257**
Client ID: **LCSW** Batch ID: **39747** TestNo: **SM2540D** Analysis Date: **5/10/2012** SeqNo: **1394301**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filtera	995.000	10	1000	0	99.5	80	120				

Sample ID: **N007823-001E-DUP** SampType: **DUP** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **5/10/2012** RunNo: **84257**
Client ID: **ZZZZZZ** Batch ID: **39747** TestNo: **SM2540D** Analysis Date: **5/10/2012** SeqNo: **1394303**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filtera	ND	5.0						0	0	5	

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007823
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 1664_HEM_W

Sample ID: **MB-39770**	SampType: **MBLK**	TestCode: **1664_HEM_W**	Units: **mg/L**	Prep Date: **5/15/2012**	RunNo: **84288**
Client ID: **PBW**	Batch ID: **39770**	TestNo: **EPA 1664 _H**		Analysis Date: **5/15/2012**	SeqNo: **1396103**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease	ND	4.0									

Sample ID: **LCS-39770**	SampType: **LCS**	TestCode: **1664_HEM_W**	Units: **mg/L**	Prep Date: **5/15/2012**	RunNo: **84288**
Client ID: **LCSW**	Batch ID: **39770**	TestNo: **EPA 1664 _H**		Analysis Date: **5/15/2012**	SeqNo: **1396104**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease	34.700	4.0	40.00	0	86.8	78	114				

Sample ID: **N007823-001A-MS**	SampType: **MS**	TestCode: **1664_HEM_W**	Units: **mg/L**	Prep Date: **5/15/2012**	RunNo: **84288**
Client ID: **ZZZZZZ**	Batch ID: **39770**	TestNo: **EPA 1664 _H**		Analysis Date: **5/15/2012**	SeqNo: **1396106**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease	33.229	4.2	41.67	0	79.8	78	114				

Sample ID: **N007823-001A-MSD**	SampType: **MSD**	TestCode: **1664_HEM_W**	Units: **mg/L**	Prep Date: **5/15/2012**	RunNo: **84288**
Client ID: **ZZZZZZ**	Batch ID: **39770**	TestNo: **EPA 1664 _H**		Analysis Date: **5/15/2012**	SeqNo: **1396107**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease	33.684	4.2	42.11	0	80.0	78	114	33.23	1.36	18	

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007823
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_DRC

Sample ID: **MB-39755**	SampType: **MBLK**	TestCode: **200.8_W_DR**	Units: **µg/L**	Prep Date: **5/11/2012**	RunNo: **84274**
Client ID: **PBW**	Batch ID: **39755**	TestNo: **EPA 200.8**		Analysis Date: **5/11/2012**	SeqNo: **1394835**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	ND	0.50									

Sample ID: **LCS-39755**	SampType: **LCS**	TestCode: **200.8_W_DR**	Units: **µg/L**	Prep Date: **5/11/2012**	RunNo: **84274**
Client ID: **LCSW**	Batch ID: **39755**	TestNo: **EPA 200.8**		Analysis Date: **5/11/2012**	SeqNo: **1394836**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	9.081	0.50	10.00	0	90.8	85	115				

Sample ID: **N007823-001H-MS**	SampType: **MS**	TestCode: **200.8_W_DR**	Units: **µg/L**	Prep Date: **5/11/2012**	RunNo: **84274**
Client ID: **ZZZZZZ**	Batch ID: **39755**	TestNo: **EPA 200.8**		Analysis Date: **5/11/2012**	SeqNo: **1394840**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	8.914	0.50	10.00	0.1988	87.2	75	125				

Sample ID: **N007823-001H-MSD**	SampType: **MSD**	TestCode: **200.8_W_DR**	Units: **µg/L**	Prep Date: **5/11/2012**	RunNo: **84274**
Client ID: **ZZZZZZ**	Batch ID: **39755**	TestNo: **EPA 200.8**		Analysis Date: **5/11/2012**	SeqNo: **1394841**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	9.185	0.50	10.00	0.1988	89.9	75	125	8.914	3.00	20	

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007823
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: **MB-39755** SampType: **MBLK** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **5/11/2012** RunNo: **84274**
Client ID: **PBW** Batch ID: **39755** TestNo: **EPA 200.8** Analysis Date: **5/11/2012** SeqNo: **1394902**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	ND	0.50									
Lead	ND	0.50									
Thallium	ND	0.50									
Zinc	ND	10									

Sample ID: **LCS-39755** SampType: **LCS** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **5/11/2012** RunNo: **84274**
Client ID: **LCSW** Batch ID: **39755** TestNo: **EPA 200.8** Analysis Date: **5/11/2012** SeqNo: **1394903**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	9.209	0.50	10.00	0	92.1	85	115				
Lead	10.045	0.50	10.00	0	100	85	115				
Thallium	10.215	0.50	10.00	0	102	85	115				
Zinc	93.289	10	100.0	0	93.3	85	115				

Sample ID: **N007823-001H-MS** SampType: **MS** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **5/11/2012** RunNo: **84274**
Client ID: **ZZZZZZ** Batch ID: **39755** TestNo: **EPA 200.8** Analysis Date: **5/11/2012** SeqNo: **1394907**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	9.241	0.50	10.00	1.469	77.7	75	125				
Lead	13.852	0.50	10.00	3.796	101	75	125				
Thallium	10.500	0.50	10.00	0	105	75	125				
Zinc	87.231	10	100.0	3.735	83.5	75	125				

Sample ID: **N007823-001H-MSD** SampType: **MSD** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **5/11/2012** RunNo: **84274**
Client ID: **ZZZZZZ** Batch ID: **39755** TestNo: **EPA 200.8** Analysis Date: **5/11/2012** SeqNo: **1394908**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	9.403	0.50	10.00	1.469	79.3	75	125	9.241	1.73	20	
Lead	13.842	0.50	10.00	3.796	100	75	125	13.85	0.0750	20	

Qualifiers:

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
R RPD outside accepted recovery limits
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007823
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: **N007823-001H-MSD** SampType: **MSD** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **5/11/2012** RunNo: **84274**
Client ID: **ZZZZZZ** Batch ID: **39755** TestNo: **EPA 200.8** Analysis Date: **5/11/2012** SeqNo: **1394908**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	10.443	0.50	10.00	0	104	75	125	10.50	0.543	20	
Zinc	87.063	10	100.0	3.735	83.3	75	125	87.23	0.193	20	

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007823
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W_LL

Sample ID: **LCS-39772**	SampType: **LCS**	TestCode: **245.1_W_LL**	Units: **µg/L**	Prep Date: **5/14/2012**	RunNo: **84273**
Client ID: **LCSW**	Batch ID: **39772**	TestNo: **EPA 245.1**		Analysis Date: **5/15/2012**	SeqNo: **1394710**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.591	0.050	2.500	0	104	85	115				

Sample ID: **MB-39772**	SampType: **MBLK**	TestCode: **245.1_W_LL**	Units: **µg/L**	Prep Date: **5/14/2012**	RunNo: **84273**
Client ID: **PBW**	Batch ID: **39772**	TestNo: **EPA 245.1**		Analysis Date: **5/15/2012**	SeqNo: **1394711**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.050									

Sample ID: **N007823-001H-MS**	SampType: **MS**	TestCode: **245.1_W_LL**	Units: **µg/L**	Prep Date: **5/14/2012**	RunNo: **84273**
Client ID: **ZZZZZZ**	Batch ID: **39772**	TestNo: **EPA 245.1**		Analysis Date: **5/15/2012**	SeqNo: **1394713**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.475	0.050	2.500	0	99.0	75	125				

Sample ID: **N007823-001H-MSD**	SampType: **MSD**	TestCode: **245.1_W_LL**	Units: **µg/L**	Prep Date: **5/14/2012**	RunNo: **84273**
Client ID: **ZZZZZZ**	Batch ID: **39772**	TestNo: **EPA 245.1**		Analysis Date: **5/15/2012**	SeqNo: **1394714**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.554	0.050	2.500	0	102	75	125	2.475	3.13	20	

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007823
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 7199_WPGE

Sample ID: **MB-R84207**	SampType: **MBLK**	TestCode: **7199_WPGE**	Units: **µg/L**	Prep Date:	RunNo: **84207**
Client ID: **PBW**	Batch ID: **R84207**	TestNo: **EPA 7199**		Analysis Date: **5/9/2012**	SeqNo: **1392179**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **LCS-R84207**	SampType: **LCS**	TestCode: **7199_WPGE**	Units: **µg/L**	Prep Date:	RunNo: **84207**
Client ID: **LCSW**	Batch ID: **R84207**	TestNo: **EPA 7199**		Analysis Date: **5/9/2012**	SeqNo: **1392180**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.984	0.20	5.000	0	99.7	90	110				

Sample ID: **N007823-001IDUP**	SampType: **DUP**	TestCode: **7199_WPGE**	Units: **µg/L**	Prep Date:	RunNo: **84207**
Client ID: **ZZZZZZ**	Batch ID: **R84207**	TestNo: **EPA 7199**		Analysis Date: **5/9/2012**	SeqNo: **1392182**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.027	0.20						0.02733	0	20	J

Sample ID: **N007823-001IMS**	SampType: **MS**	TestCode: **7199_WPGE**	Units: **µg/L**	Prep Date:	RunNo: **84207**
Client ID: **ZZZZZZ**	Batch ID: **R84207**	TestNo: **EPA 7199**		Analysis Date: **5/9/2012**	SeqNo: **1392183**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.994	0.20	1.000	0.02733	96.7	85	115				

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007823
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: **MB-39750** SampType: **MBLK** TestCode: **8015_W_FP_** Units: **ug/L** Prep Date: **5/11/2012** RunNo: **84241**
Client ID: **PBW** Batch ID: **39750** TestNo: **EPA 8015B** **EPA 3510C** Analysis Date: **5/11/2012** SeqNo: **1394571**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	50									
TPH-Oil (C23-C36)	ND	50									
Surr: Octacosane	62.555		80.00		78.2	26	152				
Surr: p-Terphenyl	63.770		80.00		79.7	57	132				

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007823
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GSFPP

Sample ID: **E120509LCS** SampType: **LCS** TestCode: **8015_W_GSF** Units: **µg/L** Prep Date: RunNo: **84245**
Client ID: **LCSW** Batch ID: **E12VW020** TestNo: **EPA 8015B** Analysis Date: **5/9/2012** SeqNo: **1393686**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	931.000	100	1000	0	93.1	67	136				
Surr: Chlorobenzene - d5	53.621		50.00		107	74	138				

Sample ID: **E120509MB1** SampType: **MBLK** TestCode: **8015_W_GSF** Units: **µg/L** Prep Date: RunNo: **84245**
Client ID: **PBW** Batch ID: **E12VW020** TestNo: **EPA 8015B** Analysis Date: **5/9/2012** SeqNo: **1393687**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	ND	100									
Surr: Chlorobenzene - d5	54.007		50.00		108	74	138				

Sample ID: **N007823-001BMS** SampType: **MS** TestCode: **8015_W_GSF** Units: **µg/L** Prep Date: RunNo: **84245**
Client ID: **ZZZZZZ** Batch ID: **E12VW020** TestNo: **EPA 8015B** Analysis Date: **5/9/2012** SeqNo: **1393688**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	888.000	100	1000	0	88.8	67	136				
Surr: Chlorobenzene - d5	48.743		50.00		97.5	74	138				

Sample ID: **N007823-001BMSD** SampType: **MSD** TestCode: **8015_W_GSF** Units: **µg/L** Prep Date: RunNo: **84245**
Client ID: **ZZZZZZ** Batch ID: **E12VW020** TestNo: **EPA 8015B** Analysis Date: **5/9/2012** SeqNo: **1393689**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	905.000	100	1000	0	90.5	67	136	888.0	1.90	30	
Surr: Chlorobenzene - d5	49.392		50.00		98.8	74	138		0	0	

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007823
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P120509LCS** SampType: **LCS** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **84216**
Client ID: **LCSW** Batch ID: **P12VW024** TestNo: **EPA 8260B** Analysis Date: **5/9/2012** SeqNo: **1392464**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	17.050	0.50	20.00	0	85.2	69	133				
1,2-Dichloroethane	20.360	0.50	20.00	0	102	69	132				
Benzene	19.510	1.0	20.00	0	97.6	81	122				
Ethylbenzene	20.650	1.0	20.00	0	103	73	127				
m,p-Xylene	42.680	1.0	40.00	0	107	76	128				
MTBE	19.860	1.0	20.00	0	99.3	65	123				
o-Xylene	21.210	1.0	20.00	0	106	80	121				
Tert-Butanol	115.650	5.0	100.0	0	116	70	130				
Toluene	20.140	2.0	20.00	0	101	77	122				
Xylenes, Total	63.890	2.0	60.00	0	106	75	125				
Surr: 1,2-Dichloroethane-d4	23.150		25.00		92.6	72	119				
Surr: 4-Bromofluorobenzene	26.160		25.00		105	76	119				
Surr: Dibromofluoromethane	23.720		25.00		94.9	85	115				
Surr: Toluene-d8	25.390		25.00		102	81	120				

Sample ID: **P120509MB2** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **84216**
Client ID: **PBW** Batch ID: **P12VW024** TestNo: **EPA 8260B** Analysis Date: **5/9/2012** SeqNo: **1392465**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	ND	0.50									
1,2-Dichloroethane	ND	0.50									
Benzene	ND	1.0									
Ethylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
MTBE	ND	1.0									
o-Xylene	ND	1.0									
Tert-Butanol	ND	5.0									
Toluene	ND	2.0									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	22.390		25.00		89.6	72	119				

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007823
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **P120509MB2** SampType: **MBLK** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **84216**
Client ID: **PBW** Batch ID: **P12VW024** TestNo: **EPA 8260B** Analysis Date: **5/9/2012** SeqNo: **1392465**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	24.850		25.00		99.4	76	119				
Surr: Dibromofluoromethane	23.230		25.00		92.9	85	115				
Surr: Toluene-d8	24.440		25.00		97.8	81	120				

Sample ID: **N007823-001GMS** SampType: **MS** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **84216**
Client ID: **ZZZZZZ** Batch ID: **P12VW024** TestNo: **EPA 8260B** Analysis Date: **5/9/2012** SeqNo: **1392467**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	16.550	0.50	20.00	0	82.8	69	133				
1,2-Dichloroethane	20.660	0.50	20.00	0	103	69	132				
Benzene	18.680	1.0	20.00	0	93.4	81	122				
Ethylbenzene	19.860	1.0	20.00	0	99.3	73	127				
m,p-Xylene	40.690	1.0	40.00	0	102	76	128				
MTBE	20.180	1.0	20.00	0	101	65	123				
o-Xylene	20.320	1.0	20.00	0	102	80	121				
Tert-Butanol	92.860	5.0	100.0	0	92.9	70	130				
Toluene	19.380	2.0	20.00	0	96.9	77	122				
Xylenes, Total	61.010	2.0	60.00	0	102	75	125				
Surr: 1,2-Dichloroethane-d4	23.190		25.00		92.8	72	119				
Surr: 4-Bromofluorobenzene	25.660		25.00		103	76	119				
Surr: Dibromofluoromethane	23.180		25.00		92.7	85	115				
Surr: Toluene-d8	25.570		25.00		102	81	120				

Sample ID: **N007823-001GMSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **84216**
Client ID: **ZZZZZZ** Batch ID: **P12VW024** TestNo: **EPA 8260B** Analysis Date: **5/9/2012** SeqNo: **1392468**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	16.200	0.50	20.00	0	81.0	69	133	16.55	2.14	20	
1,2-Dichloroethane	19.740	0.50	20.00	0	98.7	69	132	20.66	4.55	20	
Benzene	18.170	1.0	20.00	0	90.9	81	122	18.68	2.77	20	

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007823
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N007823-001GMSD** SampType: **MSD** TestCode: **8260_WP_SF** Units: **µg/L** Prep Date: RunNo: **84216**
Client ID: **ZZZZZZ** Batch ID: **P12VW024** TestNo: **EPA 8260B** Analysis Date: **5/9/2012** SeqNo: **1392468**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	19.440	1.0	20.00	0	97.2	73	127	19.86	2.14	20	
m,p-Xylene	40.320	1.0	40.00	0	101	76	128	40.69	0.913	20	
MTBE	19.870	1.0	20.00	0	99.4	65	123	20.18	1.55	20	
o-Xylene	19.960	1.0	20.00	0	99.8	80	121	20.32	1.79	20	
Tert-Butanol	93.050	5.0	100.0	0	93.0	70	130	92.86	0.204	20	
Toluene	18.820	2.0	20.00	0	94.1	77	122	19.38	2.93	20	
Xylenes, Total	60.280	2.0	60.00	0	100	75	125	61.01	1.20	20	
Surr: 1,2-Dichloroethane-d4	23.600		25.00		94.4	72	119		0		
Surr: 4-Bromofluorobenzene	25.760		25.00		103	76	119		0		
Surr: Dibromofluoromethane	22.470		25.00		89.9	85	115		0		
Surr: Toluene-d8	25.110		25.00		100	81	120		0		

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CHAIN OF CUSTODY RECORD

DATE: 05/05/12
PAGE: 1 OF 1

LABORATORY CLIENT: **Kinder Morgan Energy Partners, Attn: Steve Defibaugh**	CLIENT PROJECT NAME / NUMBER: **SFPP - Norwalk Site**	P.O. NO.:
ADDRESS: **1100 Town & Country Road**	PROJECT CONTACT: **James Dye**	QUOTE NO.:
CITY: **Orange, CA 92868**	SAMPLER(S): (SIGNATURE)	LAB USE ONLY
TEL: **714-560-4802** FAX: **714-560-4601** E-MAIL: james_dye@kindermorgan.com		

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ■ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195
"J" flags required/Use lowest possible detection limit - all methods.

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MAT-RIX	NO. OF CONT.	Oil & Grease (1664)	TPH-g, TPH-d, and TPH-oil (8015B)	Total TPH (as TPH-g, TPH-d, and TPH-oil) (8015B)	Settleable Solids (SM2540F)	Total Suspended Solids (SM2540D)	Phenol (420.1)	BTEX, Total Xylenes, 1,1-DCA, 1,2-DCA(8260B)	MTBE and TBA, (8260B) 48HR TAT	Cu, Pb, Ti, and Zn (200.8)	Se (200.8); Hg (245.1)	Cr VI (7199)		Comments
	EFF-05-08	Effluent	05/08/12	1230	WW	17	X	X	X	X	X	X	X	X	X	X	X		N007823-01

Relinquished by: (Signature)	Received by: (Signature) ATL-Lod Arced	Date: 5/8/12 Time: 1420
Relinquished by: (Signature) ATL-Lod Arced	Received by: (Signature)	Date: 5/8/12 Time: 1425
Relinquished by: (Signature)	Received by: (Signature) MAGENTION	Date: 5/8/12 Time: 0900

Revised: 03/07/2012

5.6

Advanced Technology Laboratories, Inc.

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	5/8/2012	Workorder:	N007823
Rep sample Temp (Deg C):	5.6	IR Gun ID:	2
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Ontrac		
Last 4 digits of Tracking No.:	0932	Packing Material Used:	Bubble Wrap
Cooling process:	☐ Ice ☑ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☑	No ☐	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☑	No ☐	NA ☐
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☑	No ☐	NA ☐
15. Did the bottle labels indicate correct preservatives used?	Yes ☑	No ☐	NA ☐
16. Were there Non-Conformance issues at login?	Yes ☐	No ☐	NA ☑
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments:

Checklist Completed B MBC 5/9/12

Reviewed By:

ADVANCED TECHNOLOGY LABORATORIES

May 18, 2012

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Marlon Cartin
Advanced Technology Laboratory-Las Vegas
3151 W Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659
Fax:(702) 307-2691

Re: ATL Work Order Number : 1201710

Client Reference : [none]

Enclosed are the results for sample(s) received on May 08, 2012 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez

Laboratory Director

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 05/18/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N007823-001D / EFF-05-08	1201710-01	Waste Water	5/08/12 12:30	5/08/12 17:01
N007823-001F / EFF-05-08	1201710-02	Waste Water	5/08/12 12:30	5/08/12 17:01

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 05/18/2012

Client Sample ID N007823-001D / EFF-05-08

Lab ID: 1201710-01

Residue, Settleable by SM 2540F **Analyst: AG**

Analyte	Result (mL/L)	PQL (mL/L)	MDL (mL/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Settleable	ND	0.10	NA	1	B2E0329	05/10/2012	05/10/12 07:22	

QUALITY CONTROL SECTION

Residue, Settleable by SM 2540F - Quality Control

Analyte	Result (mL/L)	PQL (mL/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2E0329 - No_Prep_WC_1									
Blank (B2E0329-BLK1)					Prepared: 5/10/2012 Analyzed: 5/10/2012				
Residue, Settleable	ND	0.10			NR				

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 05/18/2012

Notes and Definitions

ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Advanced Technology Laboratories
3275 Walnut Street
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attention: Rachelle Arada

Number of Pages	**2**
Date Received	**05/09/2012**
Date Reported	**05/17/2012**

Job Number	Order Date	Client
65696	05/09/2012	ATL

Project ID: 1201710
Project Name: PO# SC07260

Enclosed please find results of analyses of 1 water sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Advanced Technology Laboratories **3275 Walnut Street** **Signal Hill, CA 90755-5225**

Telephone: (562)989-4045
Attention: Rachelle Arada

Project ID: 1201710 **Date Received 05/09/2012** **Date Reported 05/17/2012**

Job Number	Order Date	Client
65696	05/09/2012	ATL

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 1 samples with the following specification on 05/09/2012.

Lab ID	Sample ID	Sample Date	Matrix	QTY of Containers
65696.01	1201710-02	05/08/2012	Aqueous	1

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Street
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: **2**

Project ID: 1201710
Project Name: PO# SC07260

AETL Job Number	Submitted	Client
65696	05/09/2012	ATL

Method: 420.1, Phenolics, Total Recoverable, Spectrophotometric, Manual

QC Batch No: 051612-1

Our Lab I.D.			Method Blank	65696.01			
Client Sample I.D.				1201710-02			
Date Sampled				05/08/2012			
Date Prepared			05/16/2012	05/16/2012			
Preparation Method			420.1	420.1			
Date Analyzed			05/16/2012	05/16/2012			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Phenolic compounds as phenol	0.15	0.30	ND	ND			

QUALITY CONTROL REPORT

QC Batch No: 051612-1; Dup or Spiked Sample: 65696.01; LCS: Clean Water; QC Prepared: 05/16/2012; QC Analyzed: 05/16/2012; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Phenol	0.00	0.500	0.472	94.4	0.500	0.500	100	5.8	80-120	<15

QC Batch No: 051612-1; Dup or Spiked Sample: 65696.01; LCS: Clean Water; QC Prepared: 05/16/2012; QC Analyzed: 05/16/2012; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit		
Phenol	ND	ND	<1	<15	0.500	0.489	97.8	80-120		

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

ADVANCED TECHNOLOGY LABORATORIES

Job # 65696

SUBCONTRACT ORDER

Work Order: 1201710

SENDING LABORATORY:	**RECEIVING LABORATORY:**
Advanced Technology Laboratories	AETL
3275 Walnut Avenue	2834 North Naomi Street
Signal Hill, CA 90755	Burbank, CA 91504
Phone: 562.989.4045	Phone :(818) 845-8200
Fax: 562.989.6348	Fax: (818) 845-8840
Project Manager: Rachelle Arada	PO#: SC07160

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires		Sampled	Comments
ATL Lab#: 1201710-02	**/ N007823-001F / EFF-05-08**		**Waste Water**	**05/08/12 12:30**	65696-01
420.1_5530BD	05/16/12 17:00	06/05/12 12:30			

Released By	5/8/12 Date		Received By	5/9/12 Date	1450
Released By	5/9/12 Date	1650	Received By	05/09/12 Date	1650

Advanced Technology Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atlglobal.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:
Advanced Technology Laboratories - Signal Hill
3283 Walnut Ave.
Signal Hill, California
TEL: (562) 989-4045
FAX: (562) 989-4045
Acct #:

Field Sampler: Signed

08-May-12

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests EPA 420.1	SM2540F	
N007823-001D / EFF-05-08	Wastewater	5/8/2012 12:30:00 PM	32OZP		1	
N007823-001F / EFF-05-08	Wastewater	5/8/2012 12:30:00 PM	32OZA	1		

General Comments: Please email sample receipt acknowledgement to the PM.
Please use PO#: N007823 Please fax results by: Normal TAT
Please analyze for Settleable Solids and Phenols.

		Date/Time			Date/Time
Relinquished by:		5/8/12	**Received by:**	FEDEX	5/8/12 1701
Relinquished by:			**Received by:**		

CHAIN OF CUSTODY RECORD - PLEASE CONPLETE ALL SHADED AREAS

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

P.O. #: _____ Quote #: _____

As the authorized agent of the below named company, I hereby purchase testing services from ATL as dictated below and guarrantee payment in full.

Submitter (Print):

Signature:

Submitter - Please complete all SHADED areas and include QUOTE # above to ensure proper invoicing.

FOR LABORATORY USE ONLY

Method of Transport
☐ Client ☐ ATL
☐ FedEx ☐ OnTrac
☐ GSO
☐ Other: _____

Sample Condition Upon Receipt
1. CHILLED Y ☐ N ☐
2. HEADSPACE (VOA) Y ☐ N ☐
3. CONTAINER INTACT Y ☐ N ☐
4. SEALED Y ☐ N ☐
5. # OF SPLS MATCH COC Y ☐ N ☐
6. PRESERVED Y ☐ N ☐

Client:	Advanced Technology Laboratory-Las Vegas	Address:	3151 W Post Rd.	Tel:	(702) 307-2659
		City:	Las Vegas State: NV Zip Code: 89118	Fax:	(702) 307-2691
Project Name:	CH2M HILL- Norwalk	Project #:		Sampler:	(Signature)

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date: 5/8/12	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

Bill To:	Send Report to:	Special Instructions/Comments:
Attn: Email:	Attn: Email:	15 mins shipping time
Company:	Company:	
Address:	Address:	
City: State: ZIP:	City: State: ZIP:	

Samples and Records - Archival & Disposal
Unless otherwise requested by client, all samples and Hard copy records will be disposed Forty-five (45) days after generation of report - electronic copies retained for five (5) years.

Storage Fees (applies when storage is requested):
- **Samples:** Forty-five (45) Days Complimentary - $2.00 / sample /mo thereafter.
- **Hardcopy Reports $17.50 per report .**

CIRCLE or **Write IN** Analyses

CIRCLE APPROPRIATE MATRIX

Q A / Q C
RTNE ☐
CT ☐
Legal ☐
SWRCB ☐ Logcode____
OTHER _____

ITEM	BUSINESS HOURS 8:30 AM TO 5:30 PM	Sample Description			8260 - 624 (Volatiles)	8015B (GRO) / 8021 (BTEX)	TO-15 / TO-14 / TO-3 / RSK-175	8270B - 625 (BNA) / 8310 (PAHs)	8015B (DRO) / 8015B (HCID)	8081 OrgCl / 8141 OrgPO4 Pest	8082 PCBs	6010B - 200.7 CAM Metals	6010B - 200.7 Metals	6020 - 200.8 - 1640 Metals	7199 - 218.6 (Hex. Chromium)	300 (Anions) / 314 (Perchlorate)	Field Services	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPES / FILTERS	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	Container(s) TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	Lab No.	Sample ID / Location	Date	Time																						
1		-	5/8/2012														X									
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										

▪ Samples Submitted AFTER 3:30 PM, are considered received the following business day at 8:30 AM.

WEEKEND, HOLIDAY, OFF HOURS WORK - ASK for QUOTE

Container Types: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister

Material: 1=Glass; 2=Plastic; 3=Metal

Preservatives: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3

TAT 0	TAT 1	TAT 2	TAT 3	TAT 4	TAT 5	TAT 10
☐ 300% SURCHARGE SAME BUSINESS DAY IF RCV'D BY 9:00 AM	☐ 100% SURCHARGE NEXT BUSINESS DAY 5:30 PM	☐ 50% SURCHARGE 2ND BUSINESS DAY 5:30 PM	☐ 30% SURCHARGE 3RD BUSINESS DAY 5:30 PM	☐ 20% SURCHARGE 4TH BUSINESS DAY 5:30 PM	☐ NO SURCHARGE 5 -7 BUSINESS DAYS 5:30 PM	☐ 10% DISCOUNT 10th BUSINESS DAY 5:30 PM

FOR RUSH TCLP / STLC, ADD 2 DAYS TO RESPECTIVE TAT.

Subcon. TAT is 10 - 15 business days; Dioxin and Furans 21 business days.

Advanced Technology Laboratories
3151 W. Post Road
Las Vegas, NV 89118
Tel: 702-307-2659 Fax: 702-307-2691
Marlon Cartin (marlon@atl-labs.com)

CHAIN OF CUSTODY RECORD

DATE: 05/05/12
PAGE: 1 OF 1

LABORATORY CLIENT: **Kinder Morgan Energy Partners, Attn: Steve Defibaugh**
ADDRESS: **1100 Town & Country Road**
CITY: **Orange, CA 92868**
TEL: **714-560-4802** FAX: **714-560-4601** E-MAIL: **james_dye@kindermorgan.com**

CLIENT PROJECT NAME / NUMBER: **SFPP - Norwalk Site**
PROJECT CONTACT: **James Dye**
SAMPLER(S): (SIGNATURE)
P.O. NO.:
QUOTE NO.:
LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ■ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195
"J" flags required/Use lowest possible detection limit - all methods.

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MAT-RIX	NO. OF CONT.	Oil & Grease (1664)	TPH-g, TPH-d, and TPH-oil (8015B)	Total TPH (as TPH-g, TPH-d, and TPH-oil) (8015B)	Settleable Solids (SM2540F)	Total Suspended Solids (SM2540D)	Phenol (420.1)	BTEX, Total Xylenes, 1,1-DCA, 1,2-DCA(8260B)	MTBE and TBA, (8260B) 48HR TAT	Cu, Pb, Tl, and Zn (200.8)	Se (200.8); Hg (245.1)	Cr VI (7199)		Comments
	EFF-05-08	Effluent	05/08/12	1230	WW	17	X	X	X	X	X	X	X	X	X	X	X		

Relinquished by: (Signature)	Received by: (Signature)	Date: 5/5/12	Time: 1420
Relinquished by: (Signature)	Received by: (Signature)	Date: 5/8/12	Time: 1145
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Revised: 03/07/2012

June 22, 2012

Daniel Jablonski
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612

TEL: (213)228-8271
FAX: (510) 622-9129

CA-ELAP No.:2676
NV Cert. No.:NV-009222007A

Workorder No.: N007997

RE: SFPP - Norwalk Site

Attention: Daniel Jablonski

Enclosed are the results for sample(s) received on June 13, 2012 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an amended report. Please disregard all previous documentation that corresponds to the page(s) enclosed.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

for

Jose Tenorio Jr.
Laboratory Director

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Samples were analyzed within method holding time.

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Subcontracted Analyses:

Phenols by EPA 420.1 and Settleable Solids by SM 2540F were subcontracted to Advanced Technology Laboratories-Signal Hill, CA .

Advanced Technology Laboratories, Inc.
3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

Date: *22-Jun-12*

CLIENT: CH2M HILL
Project: SFPP - Norwalk Site
Lab Order: N007997
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N007997-001A	EFF-61212	Wastewater	6/12/2012 12:50:00 PM	6/13/2012	6/22/2012
N007997-001B	EFF-61212	Wastewater	6/12/2012 12:50:00 PM	6/13/2012	6/22/2012
N007997-001C	EFF-61212	Wastewater	6/12/2012 12:50:00 PM	6/13/2012	6/22/2012
N007997-001D	EFF-61212	Wastewater	6/12/2012 12:50:00 PM	6/13/2012	6/22/2012
N007997-001E	EFF-61212	Wastewater	6/12/2012 12:50:00 PM	6/13/2012	6/22/2012
N007997-001F	EFF-61212	Wastewater	6/12/2012 12:50:00 PM	6/13/2012	6/22/2012
N007997-001G	EFF-61212	Wastewater	6/12/2012 12:50:00 PM	6/13/2012	6/22/2012
N007997-001H	EFF-61212	Wastewater	6/12/2012 12:50:00 PM	6/13/2012	6/22/2012
N007997-001I	EFF-61212	Wastewater	6/12/2012 12:50:00 PM	6/13/2012	6/22/2012

Advanced Technology Laboratories, Inc.
3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Lab Order: N007997
Project: SFPP - Norwalk Site
Lab ID: N007997-001

Client Sample ID: EFF-61212
Collection Date: 6/12/2012 12:50:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **WETCHEM_120613A** QC Batch: **39954**				PrepDate:	**6/13/2012**		Analyst: **KAB**
Suspended Solids (Residue, Non-Filterable)	ND	10	10		mg/L	1	6/13/2012
HEXANE EXTRACTABLE MATERIAL (HEM)							
			EPA 1664 _HEM				
RunID: **WETCHEM_120614B** QC Batch: **39967**				PrepDate:	**6/14/2012**		Analyst: **QBM**
Oil & Grease	ND	1.2	4.3		mg/L	1	6/14/2012
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS1_120613A** QC Batch: **D12VW060**				PrepDate:			Analyst: **QBM**
1,1-Dichloroethane	ND	0.13	0.50		µg/L	1	6/13/2012 11:15 AM
1,2-Dichloroethane	ND	0.10	0.50		µg/L	1	6/13/2012 11:15 AM
Benzene	ND	0.11	1.0		µg/L	1	6/13/2012 11:15 AM
Ethylbenzene	ND	0.13	1.0		µg/L	1	6/13/2012 11:15 AM
m,p-Xylene	ND	0.16	1.0		µg/L	1	6/13/2012 11:15 AM
MTBE	ND	0.089	1.0		µg/L	1	6/13/2012 11:15 AM
o-Xylene	ND	0.10	1.0		µg/L	1	6/13/2012 11:15 AM
Tert-Butanol	ND	3.0	5.0		µg/L	1	6/13/2012 11:15 AM
Toluene	ND	0.082	2.0		µg/L	1	6/13/2012 11:15 AM
Xylenes, Total	ND	1.5	2.0		µg/L	1	6/13/2012 11:15 AM
Surr: 1,2-Dichloroethane-d4	95.2	0	72-119		%REC	1	6/13/2012 11:15 AM
Surr: 4-Bromofluorobenzene	103	0	76-119		%REC	1	6/13/2012 11:15 AM
Surr: Dibromofluoromethane	92.8	0	85-115		%REC	1	6/13/2012 11:15 AM
Surr: Toluene-d8	104	0	81-120		%REC	1	6/13/2012 11:15 AM
TPH-FUEL PRODUCT BY GC/FID							
		EPA 3510C	**EPA 8015B**				
RunID: **GC3_120614A** QC Batch: **39956**				PrepDate:	**6/13/2012**		Analyst: **MDM**
TPH-Diesel (C13-C22)	ND	13	51		ug/L	1	6/14/2012 12:14 PM
TPH-Oil (C23-C36)	ND	9.8	51		ug/L	1	6/14/2012 12:14 PM
Surr: Octacosane	74.0	0	26-152		%REC	1	6/14/2012 12:14 PM
Surr: p-Terphenyl	74.7	0	57-132		%REC	1	6/14/2012 12:14 PM
GASOLINE RANGE ORGANICS BY GC/FID							
			EPA 8015B				
RunID: **GC4_120613A** QC Batch: **E12VW022**				PrepDate:			Analyst: **QBM**

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified
E	Value above quantitation range
J	Analyte detected below quantitation limits
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out

CLIENT: CH2M HILL
Lab Order: N007997
Project: SFPP - Norwalk Site
Lab ID: N007997-001

Client Sample ID: EFF-61212
Collection Date: 6/12/2012 12:50:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID							
			EPA 8015B				
RunID: **GC4_120613A**	QC Batch: **E12VW022**			PrepDate:			Analyst: **QBM**
TPH-Gasoline (C4-C12)	ND	8.5	100		µg/L	1	6/13/2012
Surr: Chlorobenzene - d5	101	0	74-138		%REC	1	6/13/2012
HEXAVALENT CHROMIUM BY IC							
			EPA 7199				
RunID: **IC1_120613A**	QC Batch: **R84531**			PrepDate:			Analyst: **QBM**
Hexavalent Chromium	0.026	0.014	0.20	J	µg/L	1	6/13/2012 10:09 AM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 245.1				
RunID: **AA1_120614B**	QC Batch: **39953**			PrepDate:		**6/13/2012**	Analyst: **CEI**
Mercury	ND	0.026	0.050		µg/L	1	6/14/2012
ICP-MS METALS BY COLLISION/REACTION CELL							
			EPA 200.8				
RunID: **ICP7_120614A**	QC Batch: **39960**			PrepDate:		**6/13/2012**	Analyst: **CEI**
Selenium	0.22	0.084	0.50	J	µg/L	1	6/14/2012 02:59 PM
ICPMS METALS							
			EPA 200.8				
RunID: **ICP7_120614A**	QC Batch: **39960**			PrepDate:		**6/13/2012**	Analyst: **CEI**
Copper	ND	0.14	0.50		µg/L	1	6/14/2012 02:59 PM
Lead	ND	0.15	0.50		µg/L	1	6/14/2012 02:59 PM
Thallium	ND	0.075	0.50		µg/L	1	6/14/2012 02:59 PM
Zinc	3.1	1.3	10	J	µg/L	1	6/14/2012 02:59 PM
TOTAL TPH							
			EPA 8015B				
RunID: **GC3_120614A**	QC Batch: **R84532**			PrepDate:			Analyst: **MDM**
Total TPH	ND	13	100		ug/L	1	6/13/2012

Qualifiers:

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	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

CLIENT: CH2M HILL
Work Order: N007997
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: **MB-39954**	SampType: **MBLK**	TestCode: **160.2_2540D_**	Units: **mg/L**	Prep Date:	RunNo: **84527**
Client ID: **PBW**	Batch ID: **39954**	TestNo: **SM2540D**		Analysis Date: **6/13/2012**	SeqNo: **1403231**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10									

Sample ID: **LCS-39954**	SampType: **LCS**	TestCode: **160.2_2540D_**	Units: **mg/L**	Prep Date:	RunNo: **84527**
Client ID: **LCSW**	Batch ID: **39954**	TestNo: **SM2540D**		Analysis Date: **6/13/2012**	SeqNo: **1403232**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	995.000	10	1000	0	99.5	80	120				

Sample ID: **N007997-001E-DUP**	SampType: **DUP**	TestCode: **160.2_2540D_**	Units: **mg/L**	Prep Date: **6/13/2012**	RunNo: **84527**
Client ID: **ZZZZZZ**	Batch ID: **39954**	TestNo: **SM2540D**		Analysis Date: **6/13/2012**	SeqNo: **1403234**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10						0	0	5	

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007997
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 1664_HEM_W

Sample ID: **MB-39967**	SampType: **MBLK**	TestCode: **1664_HEM_W**	Units: **mg/L**	Prep Date: **6/14/2012**	RunNo: **84592**
Client ID: **PBW**	Batch ID: **39967**	TestNo: **EPA 1664 _H**		Analysis Date: **6/14/2012**	SeqNo: **1405751**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease	ND	4.0									

Sample ID: **LCS-39967**	SampType: **LCS**	TestCode: **1664_HEM_W**	Units: **mg/L**	Prep Date: **6/14/2012**	RunNo: **84592**
Client ID: **LCSW**	Batch ID: **39967**	TestNo: **EPA 1664 _H**		Analysis Date: **6/14/2012**	SeqNo: **1405752**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease	35.600	4.0	40.00	0	89.0	78	114				

Sample ID: **N007997-001AMS**	SampType: **MS**	TestCode: **1664_HEM_W**	Units: **mg/L**	Prep Date: **6/14/2012**	RunNo: **84592**
Client ID: **ZZZZZZ**	Batch ID: **39967**	TestNo: **EPA 1664 _H**		Analysis Date: **6/14/2012**	SeqNo: **1405754**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease	41.489	4.3	42.55	0	97.5	78	114				

Sample ID: **N007997-001AMSD**	SampType: **MSD**	TestCode: **1664_HEM_W**	Units: **mg/L**	Prep Date: **6/14/2012**	RunNo: **84592**
Client ID: **ZZZZZZ**	Batch ID: **39967**	TestNo: **EPA 1664 _H**		Analysis Date: **6/14/2012**	SeqNo: **1405755**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease	42.021	4.3	42.55	0	98.8	78	114	41.49	1.27	18	

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories, Inc.
3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N007997
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_DRC

Sample ID: **MB-39960**	SampType: **MBLK**	TestCode: **200.8_W_DR**	Units: **µg/L**	Prep Date: **6/13/2012**	RunNo: **84540**
Client ID: **PBW**	Batch ID: **39960**	TestNo: **EPA 200.8**		Analysis Date: **6/14/2012**	SeqNo: **1403623**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	ND	0.50									

Sample ID: **LCS-39960**	SampType: **LCS**	TestCode: **200.8_W_DR**	Units: **µg/L**	Prep Date: **6/13/2012**	RunNo: **84540**
Client ID: **LCSW**	Batch ID: **39960**	TestNo: **EPA 200.8**		Analysis Date: **6/14/2012**	SeqNo: **1403624**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	9.418	0.50	10.00	0	94.2	85	115				

Sample ID: **N007997-001H-MS**	SampType: **MS**	TestCode: **200.8_W_DR**	Units: **µg/L**	Prep Date: **6/13/2012**	RunNo: **84540**
Client ID: **ZZZZZZ**	Batch ID: **39960**	TestNo: **EPA 200.8**		Analysis Date: **6/14/2012**	SeqNo: **1403628**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	8.534	0.50	10.00	0.2197	83.1	75	125				

Sample ID: **N007997-001H-MSD**	SampType: **MSD**	TestCode: **200.8_W_DR**	Units: **µg/L**	Prep Date: **6/13/2012**	RunNo: **84540**
Client ID: **ZZZZZZ**	Batch ID: **39960**	TestNo: **EPA 200.8**		Analysis Date: **6/14/2012**	SeqNo: **1403629**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	8.674	0.50	10.00	0.2197	84.5	75	125	8.534	1.62	20	

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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CLIENT: CH2M HILL
Work Order: N007997
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: **MB-39960**	SampType: **MBLK**	TestCode: **200.8_W_SFP**	Units: **µg/L**	Prep Date: **6/13/2012**	RunNo: **84540**
Client ID: **PBW**	Batch ID: **39960**	TestNo: **EPA 200.8**		Analysis Date: **6/14/2012**	SeqNo: **1403640**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	ND	0.50									
Lead	ND	0.50									
Thallium	ND	0.50									
Zinc	ND	10									

Sample ID: **LCS-39960**	SampType: **LCS**	TestCode: **200.8_W_SFP**	Units: **µg/L**	Prep Date: **6/13/2012**	RunNo: **84540**
Client ID: **LCSW**	Batch ID: **39960**	TestNo: **EPA 200.8**		Analysis Date: **6/14/2012**	SeqNo: **1403641**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	9.507	0.50	10.00	0	95.1	85	115				
Lead	9.524	0.50	10.00	0	95.2	85	115				
Thallium	9.614	0.50	10.00	0	96.1	85	115				
Zinc	97.079	10	100.0	0	97.1	85	115				

Sample ID: **N007997-001H-MS**	SampType: **MS**	TestCode: **200.8_W_SFP**	Units: **µg/L**	Prep Date: **6/13/2012**	RunNo: **84540**
Client ID: **ZZZZZZ**	Batch ID: **39960**	TestNo: **EPA 200.8**		Analysis Date: **6/14/2012**	SeqNo: **1403645**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	7.667	0.50	10.00	0	76.7	75	125				
Lead	9.628	0.50	10.00	0	96.3	75	125				
Thallium	9.964	0.50	10.00	0	99.6	75	125				
Zinc	90.130	10	100.0	3.085	87.0	75	125				

Sample ID: **N007997-001H-MSD**	SampType: **MSD**	TestCode: **200.8_W_SFP**	Units: **µg/L**	Prep Date: **6/13/2012**	RunNo: **84540**
Client ID: **ZZZZZZ**	Batch ID: **39960**	TestNo: **EPA 200.8**		Analysis Date: **6/14/2012**	SeqNo: **1403646**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	7.661	0.50	10.00	0	76.6	75	125	7.667	0.0803	20	
Lead	9.663	0.50	10.00	0	96.6	75	125	9.628	0.359	20	

Qualifiers:

- 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
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- Calculations are based on raw values

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3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N007997
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: **N007997-001H-MSD** SampType: **MSD** TestCode: **200.8_W_SFP** Units: **µg/L** Prep Date: **6/13/2012** RunNo: **84540**
Client ID: **ZZZZZZ** Batch ID: **39960** TestNo: **EPA 200.8** Analysis Date: **6/14/2012** SeqNo: **1403646**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	10.025	0.50	10.00	0	100	75	125	9.964	0.610	20	
Zinc	89.163	10	100.0	3.085	86.1	75	125	90.13	1.08	20	

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories, Inc.
3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N007997
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W_LL

Sample ID: **LCS-39953**	SampType: **LCS**	TestCode: **245.1_W_LL**	Units: **µg/L**	Prep Date: **6/13/2012**	RunNo: **84572**
Client ID: **LCSW**	Batch ID: **39953**	TestNo: **EPA 245.1**		Analysis Date: **6/14/2012**	SeqNo: **1405081**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.835	0.050	2.500	0	113	85	115				

Sample ID: **MB-39953**	SampType: **MBLK**	TestCode: **245.1_W_LL**	Units: **µg/L**	Prep Date: **6/13/2012**	RunNo: **84572**
Client ID: **PBW**	Batch ID: **39953**	TestNo: **EPA 245.1**		Analysis Date: **6/14/2012**	SeqNo: **1405082**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.050									

Sample ID: **N007997-001H-MS**	SampType: **MS**	TestCode: **245.1_W_LL**	Units: **µg/L**	Prep Date: **6/13/2012**	RunNo: **84572**
Client ID: **ZZZZZZ**	Batch ID: **39953**	TestNo: **EPA 245.1**		Analysis Date: **6/14/2012**	SeqNo: **1405084**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.671	0.050	2.500	0	107	75	125				

Sample ID: **N007997-001H-MSD**	SampType: **MSD**	TestCode: **245.1_W_LL**	Units: **µg/L**	Prep Date: **6/13/2012**	RunNo: **84572**
Client ID: **ZZZZZZ**	Batch ID: **39953**	TestNo: **EPA 245.1**		Analysis Date: **6/14/2012**	SeqNo: **1405085**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.644	0.050	2.500	0	106	75	125	2.671	1.02	20	

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007997
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 7199_WPGE

Sample ID: **MB-R84531**	SampType: **MBLK**	TestCode: **7199_WPGE**	Units: **µg/L**	Prep Date:	RunNo: **84531**
Client ID: **PBW**	Batch ID: **R84531**	TestNo: **EPA 7199**		Analysis Date: **6/13/2012**	SeqNo: **1403281**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **LCS-R84531**	SampType: **LCS**	TestCode: **7199_WPGE**	Units: **µg/L**	Prep Date:	RunNo: **84531**
Client ID: **LCSW**	Batch ID: **R84531**	TestNo: **EPA 7199**		Analysis Date: **6/13/2012**	SeqNo: **1403282**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.902	0.20	5.000	0	98.0	90	110				

Sample ID: **N007997-001IDUP**	SampType: **DUP**	TestCode: **7199_WPGE**	Units: **µg/L**	Prep Date:	RunNo: **84531**
Client ID: **ZZZZZZ**	Batch ID: **R84531**	TestNo: **EPA 7199**		Analysis Date: **6/13/2012**	SeqNo: **1403284**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.025	0.20						0.02596	0	20	J

Sample ID: **N007997-001IMS**	SampType: **MS**	TestCode: **7199_WPGE**	Units: **µg/L**	Prep Date:	RunNo: **84531**
Client ID: **ZZZZZZ**	Batch ID: **R84531**	TestNo: **EPA 7199**		Analysis Date: **6/13/2012**	SeqNo: **1403285**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.002	0.20	1.000	0.02596	97.6	85	115				

Sample ID: **N007997-001IMSD**	SampType: **MSD**	TestCode: **7199_WPGE**	Units: **µg/L**	Prep Date:	RunNo: **84531**
Client ID: **ZZZZZZ**	Batch ID: **R84531**	TestNo: **EPA 7199**		Analysis Date: **6/13/2012**	SeqNo: **1403286**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.013	0.20	1.000	0.02596	98.7	85	115	1.002	1.03	20	

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: CH2M HILL
Work Order: N007997
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: **MB-39956**	SampType: **MBLK**	TestCode: **8015_W_FP_**	Units: **ug/L**	Prep Date: **6/13/2012**	RunNo: **84532**
Client ID: **PBW**	Batch ID: **39956**	TestNo: **EPA 8015B**	**EPA 3510C**	Analysis Date: **6/14/2012**	SeqNo: **1403399**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	50									
TPH-Oil (C23-C36)	ND	50									
Surr: Octacosane	68.620		80.00		85.8	26	152				
Surr: p-Terphenyl	69.140		80.00		86.4	57	132				

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories, Inc.
3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N007997
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GSFPP

Sample ID: **E120613LCS**	SampType: **LCS**	TestCode: **8015_W_GSF**	Units: **µg/L**	Prep Date:	RunNo: **84541**
Client ID: **LCSW**	Batch ID: **E12VW022**	TestNo: **EPA 8015B**		Analysis Date: **6/13/2012**	SeqNo: **1403652**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	874.000	100	1000	0	87.4	67	136				
Surr: Chlorobenzene - d5	50.018		50.00		100	74	138				

Sample ID: **E120613MB1**	SampType: **MBLK**	TestCode: **8015_W_GSF**	Units: **µg/L**	Prep Date:	RunNo: **84541**
Client ID: **PBW**	Batch ID: **E12VW022**	TestNo: **EPA 8015B**		Analysis Date: **6/13/2012**	SeqNo: **1403653**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	ND	100									
Surr: Chlorobenzene - d5	52.101		50.00		104	74	138				

Sample ID: **N007997-001BMS**	SampType: **MS**	TestCode: **8015_W_GSF**	Units: **µg/L**	Prep Date:	RunNo: **84541**
Client ID: **ZZZZZZ**	Batch ID: **E12VW022**	TestNo: **EPA 8015B**		Analysis Date: **6/13/2012**	SeqNo: **1403654**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	839.000	100	1000	0	83.9	67	136				
Surr: Chlorobenzene - d5	50.938		50.00		102	74	138				

Sample ID: **N007997-001BMSD**	SampType: **MSD**	TestCode: **8015_W_GSF**	Units: **µg/L**	Prep Date:	RunNo: **84541**
Client ID: **ZZZZZZ**	Batch ID: **E12VW022**	TestNo: **EPA 8015B**		Analysis Date: **6/13/2012**	SeqNo: **1403655**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	828.000	100	1000	0	82.8	67	136	839.0	1.32	30	
Surr: Chlorobenzene - d5	50.102		50.00		100	74	138		0	0	

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories, Inc.
3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N007997
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **D120613LCS**	SampType: **LCS**	TestCode: **8260_WP_SF**	Units: **µg/L**	Prep Date:	RunNo: **84536**
Client ID: **LCSW**	Batch ID: **D12VW060**	TestNo: **EPA 8260B**		Analysis Date: **6/13/2012**	SeqNo: **1403354**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	18.810	0.50	20.00	0	94.1	69	133				
1,2-Dichloroethane	20.690	0.50	20.00	0	103	69	132				
Benzene	19.900	1.0	20.00	0	99.5	81	122				
Ethylbenzene	18.810	1.0	20.00	0	94.1	73	127				
m,p-Xylene	38.950	1.0	40.00	0	97.4	76	128				
MTBE	17.510	1.0	20.00	0	87.6	65	123				
o-Xylene	19.080	1.0	20.00	0	95.4	80	121				
Tert-Butanol	108.630	5.0	100.0	0	109	70	130				
Toluene	19.570	2.0	20.00	0	97.9	77	122				
Xylenes, Total	58.030	2.0	60.00	0	96.7	75	125				
Surr: 1,2-Dichloroethane-d4	28.310		25.00		113	72	119				
Surr: 4-Bromofluorobenzene	23.810		25.00		95.2	76	119				
Surr: Dibromofluoromethane	24.400		25.00		97.6	85	115				
Surr: Toluene-d8	24.250		25.00		97.0	81	120				

Sample ID: **N007997-001GMS**	SampType: **MS**	TestCode: **8260_WP_SF**	Units: **µg/L**	Prep Date:	RunNo: **84536**
Client ID: **ZZZZZZ**	Batch ID: **D12VW060**	TestNo: **EPA 8260B**		Analysis Date: **6/13/2012**	SeqNo: **1403355**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	18.610	0.50	20.00	0	93.0	69	133				
1,2-Dichloroethane	22.560	0.50	20.00	0	113	69	132				
Benzene	19.760	1.0	20.00	0	98.8	81	122				
Ethylbenzene	18.950	1.0	20.00	0	94.8	73	127				
m,p-Xylene	38.860	1.0	40.00	0	97.2	76	128				
MTBE	16.780	1.0	20.00	0	83.9	65	123				
o-Xylene	18.980	1.0	20.00	0	94.9	80	121				
Tert-Butanol	83.450	5.0	100.0	0	83.4	70	130				
Toluene	19.390	2.0	20.00	0	97.0	77	122				
Xylenes, Total	57.840	2.0	60.00	0	96.4	75	125				
Surr: 1,2-Dichloroethane-d4	27.530		25.00		110	72	119				

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories, Inc.
3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N007997
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **N007997-001GMS**	SampType: **MS**	TestCode: **8260_WP_SF**	Units: **µg/L**	Prep Date:	RunNo: **84536**
Client ID: **ZZZZZZ**	Batch ID: **D12VW060**	TestNo: **EPA 8260B**		Analysis Date: **6/13/2012**	SeqNo: **1403355**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	24.590		25.00		98.4	76	119				
Surr: Dibromofluoromethane	24.960		25.00		99.8	85	115				
Surr: Toluene-d8	24.620		25.00		98.5	81	120				

Sample ID: **N007997-001GMSD**	SampType: **MSD**	TestCode: **8260_WP_SF**	Units: **µg/L**	Prep Date:	RunNo: **84536**
Client ID: **ZZZZZZ**	Batch ID: **D12VW060**	TestNo: **EPA 8260B**		Analysis Date: **6/13/2012**	SeqNo: **1403356**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	18.410	0.50	20.00	0	92.0	69	133	18.61	1.08	20	
1,2-Dichloroethane	22.930	0.50	20.00	0	115	69	132	22.56	1.63	20	
Benzene	19.350	1.0	20.00	0	96.8	81	122	19.76	2.10	20	
Ethylbenzene	18.900	1.0	20.00	0	94.5	73	127	18.95	0.264	20	
m,p-Xylene	38.800	1.0	40.00	0	97.0	76	128	38.86	0.155	20	
MTBE	17.010	1.0	20.00	0	85.0	65	123	16.78	1.36	20	
o-Xylene	19.150	1.0	20.00	0	95.8	80	121	18.98	0.892	20	
Tert-Butanol	89.620	5.0	100.0	0	89.6	70	130	83.45	7.13	20	
Toluene	19.960	2.0	20.00	0	99.8	77	122	19.39	2.90	20	
Xylenes, Total	57.950	2.0	60.00	0	96.6	75	125	57.84	0.190	20	
Surr: 1,2-Dichloroethane-d4	28.920		25.00		116	72	119		0		
Surr: 4-Bromofluorobenzene	24.960		25.00		99.8	76	119		0		
Surr: Dibromofluoromethane	25.490		25.00		102	85	115		0		
Surr: Toluene-d8	25.090		25.00		100	81	120		0		

Sample ID: **D120613MB2**	SampType: **MBLK**	TestCode: **8260_WP_SF**	Units: **µg/L**	Prep Date:	RunNo: **84536**
Client ID: **PBW**	Batch ID: **D12VW060**	TestNo: **EPA 8260B**		Analysis Date: **6/13/2012**	SeqNo: **1403357**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	ND	0.50									
1,2-Dichloroethane	ND	0.50									
Benzene	ND	1.0									

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories, Inc.
3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Work Order: N007997
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: **D120613MB2**	SampType: **MBLK**	TestCode: **8260_WP_SF**	Units: **µg/L**	Prep Date:	RunNo: **84536**
Client ID: **PBW**	Batch ID: **D12VW060**	TestNo: **EPA 8260B**		Analysis Date: **6/13/2012**	SeqNo: **1403357**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
MTBE	ND	1.0									
o-Xylene	ND	1.0									
Tert-Butanol	ND	5.0									
Toluene	ND	2.0									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	25.920		25.00		104	72	119				
Surr: 4-Bromofluorobenzene	24.520		25.00		98.1	76	119				
Surr: Dibromofluoromethane	23.800		25.00		95.2	85	115				
Surr: Toluene-d8	26.850		25.00		107	81	120				

Qualifiers:

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	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

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Advanced Technology Laboratories
3151 W. Post Road
Las Vegas, NV 89118
Tel: 702-307-2659 Fax: 702-307-2691
Marlon Cartin (marlon@atl-labs.com)

CHAIN OF CUSTODY RECORD

DATE: 6/12/12
PAGE: 1 OF 1

LABORATORY CLIENT: **Kinder Morgan Energy Partners, Attn: Steve Defibaugh**
ADDRESS: **1100 Town & Country Road**
CITY: **Orange, CA 92868**
TEL: **714-560-4802** FAX: **714-560-4601** E-MAIL: james_dye@kindermorgan.com

CLIENT PROJECT NAME / NUMBER: **SFPP - Norwalk Site**
PROJECT CONTACT: **James Dye**
SAMPLER(S): (SIGNATURE)
P.O. NO.:
QUOTE NO.:
LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ■ 48HR ☐ 72 HR ■ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL / /

SPECIAL INSTRUCTIONS
Report to D. Jablonski/CH2M HILL, cc: KMEP
Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195
"J" flags required/Use lowest possible detection limit - all methods.

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MAT-RIX	NO. OF CONT.	Oil & Grease (1664)	TPH-g, TPH-d, and TPH-oil (8015B)	Total TPH (as TPH-g, TPH-d, and TPH-oil) (8015B)	Settleable Solids (SM2540F)	Total Suspended Solids (SM2540D)	Phenol (420.1)	BTEX, Total Xylenes, 1,1-DCA, 1,2-DCA(8260B)	MTBE and TBA, (8260B) 48HR TAT	Cu, Pb, Tl, and Zn (200.8)	Se (200.8); Hg (245.1)	Cr VI (7199)		Comments
	EFF-61212	Effluent	6/12/12	1250	WW		X	X	X	X	X	X	X	X	X	X	X		N007997-1

Relinquished by: (Signature)	Received by: (Signature)	Date: 6/12/12	Time: 1400
Relinquished by: (Signature)	Received by: (Signature)	Date: 6/12/12	Time: 1430
Relinquished by: (Signature)	Received by: (Signature) MIS COURIER	Date: 6/13/12	Time: 0900

5.7°C
ICE INT#2

Revised: 03/07/2012

Advanced Technology Laboratories, Inc.

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	6/13/2012	Workorder:	N007997
Rep sample Temp (Deg C):	5.7	IR Gun ID:	2
Temp Blank:	☐ Yes ☑ No		
Carrier name:	OnTrac		
Last 4 digits of Tracking No.:	0950	Packing Material Used:	Bubble Wrap
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☑	No ☐	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☑	No ☐	NA ☐
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☑	No ☐	NA ☐
15. Did the bottle labels indicate correct preservatives used?	Yes ☑	No ☐	NA ☐
16. Were there Non-Conformance issues at login?	Yes ☐	No ☐	NA ☑
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments:

Checklist Completed B MBC 6/13/12

Reviewed By: pjd

Advanced Technology Laboratories, Inc.

WORK ORDER Summary

13-Jun-12

WorkOrder: N007997

Client ID: CH2HI01

Project: SFPP - Norwalk Site **QC Level:** RTNE **Date Received:** 6/13/2012

Comments: Report to D. Jablonski/CH2M HILL ,cc:KMEP. Direct Bill KMEP/SFPP-Steve Defibaugh-ref.AFE# 81195. "J" Flag required / Use lowest possible detection

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N007997-001A	EFF-61212	6/12/2012 12:50:00 PM	6/20/2012	Wastewater		Oil and Grease Sample Prep	☐	☑	☐	WW
			6/20/2012		EPA 1664 _HEM	Hexane Extractable Material (HEM)	☐	☑	☐	WW
N007997-001B			6/20/2012		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	☐	☑	☐	WV
N007997-001C			6/20/2012		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	☐	☑	☐	WW
			6/20/2012		EPA 8015B	TPH-Fuel Product BY GC/FID	☐	☑	☐	WW
			6/20/2012		EPA 8015B	Total TPH	☐	☑	☐	WW
N007997-001D			6/20/2012		SM2540F	SETTLEABLE MATTER	☐	☐	☑	SUB
			6/20/2012			Setteable Matter	☐	☐	☑	SUB
N007997-001E			6/20/2012		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			6/20/2012			Total Suspended Solids Prep	☐	☐	☐	WW
N007997-001F			6/20/2012		EPA 420.1	PHENOLICS	☐	☐	☑	SUB
			6/20/2012			Phenols Prep	☐	☐	☑	SUB
N007997-001G			6/15/2012		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☑	☐	WV
N007997-001H			6/20/2012			AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			6/20/2012		EPA 200.8	ICP-MS METALS BY COLLISION/REACTION CELL	☐	☐	☐	WW
			6/20/2012		EPA 200.8	ICPMS METALS	☐	☐	☐	WW
			6/20/2012		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	☐	☐	☐	WW
			6/20/2012			MERCURY PREP	☐	☐	☐	WW
N007997-001I			6/20/2012		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WW
N007997-002A	FOLDER		6/20/2012		Folder	Folder	☐	☐	☐	LAB

Advanced Technology Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atlglobal.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Advanced Technology Laboratories - Signal Hill
3283 Walnut Ave.
Signal Hill, California

TEL: (562) 989-4045
FAX: (562) 989-4045
Acct #:

Field Sampler: J. DYE

12-Jun-12

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA 420.1	SM2540F	
N007997-001D / EFF-61212	Wastewater	6/12/2012 12:50:00 PM	32OZP		1	
N007997-001F / EFF-61212	Wastewater	6/12/2012 12:50:00 PM	32OZA	1		

General Comments: Please email sample receipt acknowledgement to the PM.
Please use PO#: N007997 Please fax results by: Normal TAT

		Date/Time			Date/Time
Relinquished by:		6/12 @ 1700	**Received by:**		
Relinquished by:			**Received by:**		

OnTrac
On Time Delivery For Less

800-334-5000
Call For A Pickup!

Account Number: [redacted] B10246440950

Date: [illegible]

B10246440950

FROM (Company): ENVIRO TREATMENT & TECHNOLOGY*

Street Address: 3275 WALNUT AVE Suite

City: SIGNAL HILL

State: CA
Zip Code (Required): 90755
Phone Number: 567-709-4045

PLEASE PRINT IN BLOCK LETTERS with Blue / Black Ink

TO (Company) WE CANNOT DELIVER TO A P.O. BOX: ATL

Street Address: 3151 N. POST RD

Suite #:
City: LAS VEGAS

State: NV
Zip Code (Required): 89118
Phone Number: 702-307-2459

Recipient's Name: MARLON C

Shipper's Ref. #: CH2M HILL 61212

Service Options

*If no box is checked, Sunrise Service will be applied.
**Minimum charge weight is 300 lbs. - Delivery by 5:00 P.M.
Note: delivery times for all services may be later in some areas. Check service guide or visit our website for details.

- ☐ SUNRISE - BY 10:30 AM*
- ☑ SUNRISE GOLD - BY 8:00 AM*
- ☐ HEAVYWEIGHT**
- ☐ Saturday Delivery - Extra Charge (see Service Guide for details)
- ☐ HOLD FOR PICKUP
- ☑ This shipment requires a delivery signature
- ☐ Declared Value $ (maximum $25,000) [redacted]

Billing Information

If none is selected, shipper will be invoiced.

- ☐ Bill Shipper's Account
- ☑ Bill Other Acct # [redacted]

Weight

- ☐ 8 oz. Letter or
- 6 Weight lbs. (Subject to verification)

Dim weight charge if greater than actual weight

L in. X W in. X H in. ÷225 = ______

- ☐ C.O.D. Amount $, Limit $10,000 (affix C.O.D. tag to package)
- ☐ Secured Payment (Money Order or Certified Check)
- ☐ Unsecured Payment (Company Check or Personal Check)

Driver #: 3015
Pick-up Time: 4:30
Shipper's Signature: [signature]

Driver's Initials: [initials]
Shipper's Name: M KRAAFCUD

ADVANCED TECHNOLOGY LABORATORIES

June 21, 2012

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No.: T104704502

Marlon Cartin
Advanced Technology Laboratory-Las Vegas
3151 W Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659
Fax:(702) 307-2691

Re: ATL Work Order Number : 1202171
Client Reference : [none]

Enclosed are the results for sample(s) received on June 12, 2012 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 06/21/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N007997-001D / EFF-61212	1202171-01	Waste Water	6/12/12 12:50	6/12/12 17:00
N007997-001F / EFF-61212	1202171-02	Waste Water	6/12/12 12:50	6/12/12 17:00

CASE NARRATIVE

The sample for EPA 420.1 (Phenols) was subcontracted to AETL with ELAP Cert.# 1541.

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 06/21/2012

Client Sample ID N007997-001D / EFF-61212

Lab ID: 1202171-01

Residue, Settleable by SM 2540F **Analyst: AG**

Analyte	Result (mL/L)	PQL (mL/L)	MDL (mL/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Settleable	ND	0.10	NA	1	B2F0455	06/14/2012	06/14/12 10:00	

QUALITY CONTROL SECTION

Residue, Settleable by SM 2540F - Quality Control

Analyte	Result (mL/L)	PQL (mL/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2F0455 - No_Prep_WC_1									
Blank (B2F0455-BLK1)				Prepared: 6/14/2012 Analyzed: 6/14/2012					
Residue, Settleable	ND	0.10			NR				

Advanced Technology Laboratory-Las Vegas	Project Number : -
3151 W Post Rd.	Report To : Marlon Cartin
Las Vegas , NV 89118	Reported : 06/21/2012

Notes and Definitions

ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Advanced Technology Laboratories
3275 Walnut Street
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attention: Rachelle Arada

Number of Pages 2
Date Received 06/13/2012
Date Reported 06/20/2012

Job Number	Order Date	Client
66120	06/13/2012	ATL

Project ID: 1202171
Project Name: PO# SC07385

Enclosed please find results of analyses of 1 water sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Advanced Technology Laboratories **3275 Walnut Street** **Signal Hill, CA 90755-5225**

Telephone: (562)989-4045
Attention: Rachelle Arada

Project ID: 1202171 **Date Received 06/13/2012** **Date Reported 06/20/2012**

Job Number	Order Date	Client
66120	06/13/2012	ATL

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 1 samples with the following specification on 06/13/2012.

Lab ID	Sample ID	Sample Date	Matrix	QTY of Containers
66120.01	1202171-02	06/12/2012	Aqueous	1

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Street
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: **2**

Project ID: 1202171
Project Name: PO# SC07385

AETL Job Number	Submitted	Client
66120	06/13/2012	ATL

Method: 420.1, Phenolics, Total Recoverable, Spectrophotometric, Manual

QC Batch No: 061912-1

Our Lab I.D.			Method Blank	**66120.01**			
Client Sample I.D.				1202171-02			
Date Sampled				**06/12/2012**			
Date Prepared			**06/19/2012**	**06/19/2012**			
Preparation Method			**420.1**	**420.1**			
Date Analyzed			**06/19/2012**	**06/19/2012**			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Phenolic compounds as phenol	**0.15**	**0.30**	**ND**	**ND**			

QUALITY CONTROL REPORT

QC Batch No: 061912-1; Dup or Spiked Sample: 66120.01; LCS: Clean Water; QC Prepared: 06/19/2012; QC Analyzed: 06/19/2012; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Phenol	**0.00**	**0.500**	**0.498**	**99.6**	**0.500**	**0.487**	**97.4**	**2.2**	**80-120**	**<15**

QC Batch No: 061912-1; Dup or Spiked Sample: 66120.01; LCS: Clean Water; QC Prepared: 06/19/2012; QC Analyzed: 06/19/2012; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit		
Phenol	**ND**	**ND**	**<1**	**<15**	**0.500**	**0.500**	**100**	**80-120**		

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

ADVANCED TECHNOLOGY
LABORATORIES

Job # 66120

SUBCONTRACT ORDER

Work Order: 1202171

SENDING LABORATORY:

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
Phone: 562.989.4045
Fax: 562.989.6348
Project Manager: Rachelle Arada

RECEIVING LABORATORY:

AETL
2834 North Naomi Street
Burbank, CA 91504
Phone :(818) 845-8200
Fax: (818) 845-8840
PO#: SC07385 - Standard TAT (RA)

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires		Sampled	Comments
ATL Lab#: 1202171-02	**/ N007997-001F / EFF-61212**		**Waste Water**	**06/12/12 12:50**	66120.01
420.1_5530BD_SUB	06/20/12 17:00	07/10/12 12:50			

Released By	Date	Received By	Date
[signature]	6/12/12	Herman	6-13-12 1410
Herman	6-13-12 1605	Jean claude	06/13/12 1605

Advanced Technology Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atlglobal.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Advanced Technology Laboratories - Signal Hill
3283 Walnut Ave.
Signal Hill, California

TEL: (562) 989-4045
FAX: (562) 989-4045
Acct #:

Field Sampler: J. DYE

12-Jun-12

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests EPA 420.1	Requested Tests SM2540F	
N007997-001D / EFF-61212 /2021/1-01	Wastewater	6/12/2012 12:50:00 PM	32OZP		1	
N007997-001F / EFF-61212 -02	Wastewater	6/12/2012 12:50:00 PM	32OZA	1		

General Comments: Please email sample receipt acknowledgement to the PM.
Please use PO#: N007997 Please fax results by: Normal TAT

		Date/Time			Date/Time
Relinquished by:		6/12 @ 1700	**Received by:**	FPOIMA	6/12/12 1700
Relinquished by:			**Received by:**		

Appendix B
Waste Manifests

closed

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	CAT080033983	1	(800)624 9136	**008691777 JJK**

5. Generator's Name and Mailing Address
S.F.P.P.L.P
1100 TOWN & COUNTRY RD
ORANGE CA 92868
Generator's Phone: (714) 560-4887 ATTN: KATINA HANKS

Generator's Site Address (if different than mailing address)
15306 NORWALK BLVD.
NORWALK CA. 90651

6. Transporter 1 Company Name: PATRIOT ENVIRONMENTAL SERVICES — U.S. EPA ID Number: CAD053866784

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
DEMENNO - KERDOON
2000 N. ALAMEDA ST.
COMPTON, CA 90222
Facility's Phone: (310) 537-7100
U.S. EPA ID Number: CAT080013352

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
	1. NON-RCRA HAZARDOUS WASTE LIQUID (OILY WATER)	001	TT	1,200	G	NONE 223			
	2.								
	3.								
	4.								

THIS WASTE STREAM HAS BEEN QUALIFIED FOR RECYCLING/TREATMENT AT THE DeMENNO/KERDOON FACILITY IN COMPTON, CALIFORNIA. THIS FACILITY HAS THE NECESSARY PERMITS TO RECEIVE YOUR WASTE STREAM AS QUALIFIED. OUR EPA NUMBER IS CAT080013352.

14. Special Handling Instructions and Additional Information
9b1: profile #335901
BILL TO: SFPPLP
STEVE DEFIBAUGH
1100 TOWN & COUNTRY RD. ORANGE CA 92868
Always wear proper PPE when handling PO#5D20406

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: JAMES DYE — Signature: [signature] — Month 06 Day 05 Year 12

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Mauricio Hernandez — Signature: Mauricio Hernandez — Month 06 Day 05 Year 12
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Reconciled quantity 8103 with 11144 of Manifest Reference Number: Katrice on 6/11/12

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H039			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: [handwritten name] — Signature: [signature] — Month 06 Day 05 Year 12

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Certificate of Treatment/Recycling

ISSUED TO

SFPP - NORWALK STATION

FOR

MANIFEST NUMBER 008691777JJK DATE RECEIVED 6/5/2012

The aqueous waste received on the above manifest will be treated to standards mandated by the FEDERAL CLEAN WATER ACT and to effluent requirements established by the Sanitation Districts of Los Angeles County. Waste treatment and recycling is performed under permits granted to DeMENNO/KERDOON, a California Corporation, by the California Department of Toxic Control (DTSC), in coordination with the Environmental Protection Agency, in accordance with the provisions of the Resource Conservation and Recovery Act (RCRA) of 1976, together with applicable federal and state regulations including but not limited to waste discharge requirements established by the Sanitation Districts of Los Angeles County.

When the above described waste material is accepted by DeMENNO/KERDOON and treated/recycled and the aqueous phase discharged for further treatment by the Sanitation Districts, the certificate holder's responsibility for the waste material is eliminated under both RCRA and Proposition 65. Upon request, DeMENNO/KERDOON will issue this certificate that all waste material has been handled in accordance with applicable permits and the certificate holder's liability has been terminated.

DeMENNO/KERDOON

"Compliance Through Recycling"

By: _____ *Date:* 6/20/2012

Cyrus Pourhassanian
Laboratory Manager

2000 North Alameda Street ☐ Compton ☐ California ☐ 90222
Telephone (310) 537-7100 ☐ Facsimile (310) 639-2946

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAT080033962
2. Page 1 of: 1
3. Emergency Response Phone: (800) 624-9136
4. Manifest Tracking Number: 008691777 JJK

GENERATOR

5. Generator's Name and Mailing Address
S.F.P.P.L.P
1100 Town & Country Rd
Orange CA 92868
Generator's Phone: (714) 560-4887 ATTN: Katrina Hankins

Generator's Site Address (if different than mailing address)
15306 Norwalk Blvd.
Norwalk, CA. 90651

6. Transporter 1 Company Name: PATRIOT ENVIRONMENTAL SERVICES
U.S. EPA ID Number: CAD053867794

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
DEMENNO - KERDOON
2000 N. Alameda St.
Compton, CA 90222
Facility's Phone: (310) 537-7100
U.S. EPA ID Number: CAT080013352

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON-RCRA HAZARDOUS WASTE LIQUID (OILY WATER)	001	TT	1,200	G	NONE 223
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
901 profile # 335901
Always wear proper PPE when handling
Bill To: SFPPLP
Steve DeFidough
1100 Town & Country Rd, Orange CA 92868
PO# 5D720406

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: James Dye
Signature:
Month: 06 Day: 05 Year: 12

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Mauricio Hernandez
Signature: Mauricio Hernandez
Month: 06 Day: 05 Year: 12

Transporter 2 Printed/Typed Name
Signature
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Total quantity received 863 gallons KH
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name
Signature
Month: Day: Year:

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	CAT080033962	1	800-424-9300	NH-162508

GENERATOR

5. Generator's Name and Mailing Address: SFPP, L.P.
1100 Town & Country Rd
Orange, CA 92868
Generator's Phone: 714-560-4887

Generator's Site Address (if different than mailing address)
15306 Norwalk Blvd.
Norwalk, CA 90651

6. Transporter 1 Company Name: Environmental Logistics, Inc.
U.S. EPA ID Number: CAR000172460

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Filter Recycling Services, Inc.
180 W. Monte Ave. Bloomington, CA 92316
Facility's Phone: 909-421-2012
U.S. EPA ID Number: CAD982444481

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Hazardous Waste Solid (Water Treatment Filters)	4	DM	400	P	
2.	Non Hazardous Waste Solid (Treatment System Sludge)	4	DM	800	P	
3.						
4.						

13. Special Handling Instructions and Additional Information: Wear appropriate personal protective equipment — Bill To: SFPP, L.P. — Invoice# 162508

9b1) Water Treatment Filters Profile# 12031626 4X55
9b2) TBA Treatment System Sludge Profile# 12031529 4X55
9b3) Profile#
9b4) Profile#

Emergency Response CHEMTREC 1-800-424-9300 CCN668332

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: ADRIAN SANCHEZ — Signature — Month 4 Day 16 Year 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Steven MacDonald Jr — Signature — Month 4 Day 16 Year 12

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

FILTER RECYCLING SERVICES' RIALTO FACILITY, EPA #CAD982444481 HAS THE APPROPRIATE PERMIT(S) FOR AND WILL ACCEPT THIS WASTE AS SHIPPED.

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Steven MacDonald — Signature — Month 4 Day 17 Year 12