



SFPP, L.P.
Operating Partnership

May 14, 2015

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

Re: Effluent Monitoring Report
January through March 2015
SFPP, L.P. Norwalk Pump Station
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 First Quarter 2015 Effluent 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 who manage the system or those 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 14 day of May 2015.
at 1:12 p.m.

A handwritten signature in blue ink, appearing to read 'Stephen Defibaugh', is written over a horizontal line.

_____ (signature)

Stephen T. Defibaugh (printed name)

Remediation Project Manager (title)



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May 15, 2015

495811.A1.04

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

Subject: Effluent Monitoring Report, January 1 to March 31, 2015 (First Quarter 2015)
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 Engineers, Inc. (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 January 1 to March 31, 2015.

Remediation System

SFPP currently operates remediation systems consisting of soil vapor extraction (SVE), total fluids extraction (TFE) of free product, GWE for hydraulic control, and treatment of extracted soil vapors and groundwater to address two specific areas at and near the site: the south-central area and the southeastern area. Operation of the West Side Barrier (WSB) GWE system (WSB system) for remediation of the western offsite area was discontinued in August 2008 based on the reduced lateral extent and low concentrations of volatile organic compounds (VOCs) west of the site.

SVE is performed using a blower to remove soil vapors at a rate of up to 3,000 standard cubic feet per minute (scfm) from up to 33 SVE wells. The extracted vapors are conveyed to a knock-out tank that separates entrained moisture from the soil vapors. Accumulated moisture in the knock-out tank is treated by the main groundwater treatment system (GWTS) described below. The soil vapors are then treated in a thermal oxidizer where volatile organic compounds (VOCs) are converted to carbon dioxide and water prior to being discharged to the atmosphere. Operation of the GWTS and SVE is conducted in accordance with Permits to Construct (Application Nos. 569588 and 567723, respectively; ID 110835) issued by the South Coast Air Quality Management District (SCAQMD).

The main GWTS handles free product and groundwater from up to 20 extraction wells located in the south-central area and up to 5 extraction wells located in the southeastern area of the site. During the first quarter 2015, the GWTS extracted from 14 wells equipped with pneumatically operated top-loading total fluids pumps, including 11 wells in the south-central area (GMW-9, GMW-24, GMW-O-11, GMW-O-20, GMW-O-21, GMW-O-23, MW-SF-2, MW-SF-11, MW-SF-12, MW-SF-14, and MW-SF-16) and 3 wells in the southeastern area (GMW-36, GMW-O-15, and GMW-O-18). Free product and groundwater recovered by

pneumatically operated top-loading total fluids pumps 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) that are not treated in the LGAC. 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 936,119 gallons of groundwater were extracted from the south-central and southeastern areas during the first quarter 2015. No groundwater was extracted from the WSB area during this period. Table 1 summarizes the average daily flow rate during the reporting period. The GWTS operated throughout the quarter, with the following exceptions:

- The GWTS was turned off on February 3, 2015, to clean out the OWS, OWS transfer tank, sump, and equalization tank. The system was restarted on the same day.
- The GWTS was off on arrival on March 3, 2015, due to a high product tank alarm. The system was restarted on the same day.
- The GWTS was off between March 14 and March 19, 2015, due to a broken OWS transfer pump. The pump was replaced and the system was restarted on March 19, 2015.
- The GWTS was off between March 20 and March 23, 2015, due to a faulty level switch on the OWS transfer tank. Repair of the level switch was made and the system was restarted on March 23, 2015.
- The GWTS was off between March 24 and March 25, 2015, due to a high level tank alarm. The system was restarted on March 25, 2015.
- The GWTS was off on March 26, 2015, for troubleshooting of the level switch in the OWS transfer tank. The system was restarted later that same day.
- The GWTS was off on March 30 and March 31, 2015, due to a high product tank alarm. A mixture of water and product from the OWS drained to the product tank and vapor-phase granular activated carbon (VGAC) drums due to a loose fitting. The product tank was emptied and the VGAC drums were replaced, and the system was restarted on March 31, 2015.

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 Public Health Environmental Laboratory Accreditation Program. The samples were analyzed in accordance with current U.S. 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 Tables 2 and 3. Laboratory analytical reports and chain-of-custody documents are included in Appendix A.

Summary of Compliance Results

As shown in Tables 1 and 2, the results of the monthly and quarterly effluent monitoring indicate that all discharge limitations were met during the reporting period.

Waste Hauling

Approximately 1,700 gallons of non-Resource Conservation and Recovery Act (RCRA) hazardous waste liquids (oily water) were removed from the site on February 3, 2015, by Patriot Environmental Services (508 East E Street, Wilmington, California 90744). The waste was transported to Demenno/Kerdoon at 2000 North Alameda Street, Compton, California 90222.

Approximately 2,200 gallons of non-RCRA hazardous waste liquids (oily water) were removed from the site on March 18, 2015, by Patriot Environmental Services. The waste was transported to Demenno/Kerdoon.

Approximately 400 pounds of non-RCRA hazardous waste solids (filters) were removed from the site on March 23, 2015, by Environmental Logistics, Inc. (140 West Monte Avenue, Bloomington, California 92316). The waste was transported to Filter Recycling Services, Inc., at 180 West Monte Avenue, Bloomington, California 92316.

Approximately 2,000 pounds of nonhazardous spent carbon were removed from the site on March 24, 2015, by Prominent Systems, Inc. (13095 East Temple Avenue, City of Industry, California, 91746). The waste was transported to California Carbon Company at 2825 East Grant Street, Wilmington, California 90744.

Copies of the waste manifests are included in Appendix B.

Should you require any further information, please contact me at (714) 435-6194.

Sincerely,

CH2M HILL Engineers, Inc.



Vidal Cortes
Project Engineer

Attachments:

- Table 1 – Effluent Flow Rate Measurements, First Quarter 2015
- Table 2 – NPDES Effluent Monitoring, Monthly and Quarterly Events, First Quarter 2015
- Table 3 – NPDES Effluent Monitoring, Other Priority Pollutants, First Quarter 2015
- Appendix A – Laboratory Analytical Reports and Chain-of-Custody Documents
- Appendix B – Waste Manifests

Tables

TABLE 1

Effluent Flow Rate Measurements, First Quarter 2015
SFPP Norwalk Pump Station, Norwalk, California

Date	Average Flow Rate (gpd) (Maximum Daily Discharge Limit = 150,000 gpd ¹)
01/01/15	10,913
01/02/15	10,821
01/03/15	10,687
01/04/15	10,742
01/05/15	10,680
01/06/15	10,811
01/07/15	11,045
01/08/15	11,608
01/09/15	11,618
01/10/15	11,476
01/11/15	11,658
01/12/15	11,871
01/13/15	11,554
01/14/15	11,422
01/15/15	11,596
01/16/15	10,368
01/17/15	7,837
01/18/15	7,927
01/19/15	7,781
01/20/15	7,654
01/21/15	7,528
01/22/15	7,584
01/23/15	7,539
01/24/15	7,541
01/25/15	6,649
01/26/15	6,671
01/27/15	6,624
01/28/15	10,345
01/29/15	13,323
01/30/15	14,402
01/31/15	14,510
02/01/15	14,207
02/02/15	14,066
02/03/15	13,888
02/04/15	11,288
02/05/15	13,952
02/06/15	13,898
02/07/15	14,049
02/08/15	14,405
02/09/15	14,443
02/10/15	14,369
02/11/15	13,976
02/12/15	14,102
02/13/15	13,681
02/14/15	12,679
02/15/15	12,363
02/16/15	12,454
02/17/15	12,388
02/18/15	12,254
02/19/15	12,249
02/20/15	12,218
02/21/15	12,330
02/22/15	12,045
02/23/15	12,296
02/24/15	11,970
02/25/15	12,506
02/26/15	13,326
02/27/15	13,753
02/28/15	14,863

TABLE 1

Effluent Flow Rate Measurements, First Quarter 2015
 SFPP Norwalk Pump Station, Norwalk, California

Date	Average Flow Rate (gpd) (Maximum Daily Discharge Limit = 150,000 gpd ¹)
03/01/15	16,692
03/02/15	16,641
03/03/15	16,327
03/04/15	9,045
03/05/15	13,227
03/06/15	13,196
03/07/15	10,926
03/08/15	13,966
03/09/15	13,503
03/10/15	13,899
03/11/15	13,430
03/12/15	11,271
03/13/15	11,384
03/14/15	11,744
03/15/15	5,739
03/16/15	0
03/17/15	3
03/18/15	10
03/19/15	0
03/20/15	1
03/21/15	53
03/22/15	10
03/23/15	14
03/24/15	3,925
03/25/15	6,867
03/26/15	5,172
03/27/15	9,598
03/28/15	10,570
03/29/15	10,075
03/30/15	8,769
03/31/15	7,259

Notes

1. California Regional Water Quality Control Board Waste Discharge Requirements (WDRs).
 gpd = gallons per day

TABLE 2

NPDES Effluent Monitoring, Monthly and Quarterly Events, First Quarter 2015
SFPP Norwalk Pump Station, Norwalk, California

Analyte	Sampling Frequency	Analytical Method	Units	MDL ³	RL ³	ML ¹	1/15/2015	1/27/2015	2/10/2015	2/13/2015	3/3/2015	Discharge Limits ²	
												Monthly Average	Daily Maximum
Temperature	Monthly	--	°F	--	--	NE	--	80	84.1	--	71.4	--	86
Oil and Grease	Monthly	EPA 1664A	mg/L	0.88	4.4	NE	<0.82	--	<0.86	--	<0.88	10	15
TPH as gas (C4-C12)	Monthly	EPA 8015B	µg/L	16	50	NE	<16	--	<16	--	<16	--	--
TPH as Diesel (C13-C22)	Monthly	EPA 8015B	µg/L	15	25	NE	<15	--	<15	--	<15	--	--
TPH as Oil (C23+)	Monthly	EPA 8015B	µg/L	14	25	NE	<14	--	<14	--	<14	--	--
Total TPH	Monthly	EPA 8015B	µg/L	22	51	NE	<22	--	<22	--	<22	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	<10	--	<10	--	<10	50	75
Phenolics	Monthly	EPA 420.1	µg/L	150	300	50	<150	--	<150	--	<150	300	NE
Benzene	Monthly	EPA 8260B	µg/L	0.048	1	2.0	<0.048	--	<0.048	--	<0.048	1	NE
1,1-Dichloroethane	Monthly	EPA 8260B	µg/L	0.054	0.5	1.0	<0.054	--	<0.054	--	<0.054	5	NE
1,2-Dichloroethane	Monthly	EPA 8260B	µg/L	0.04	0.5	2.0	<0.044	--	<0.044	--	<0.044	0.5	NE
Ethylbenzene	Monthly	EPA 8260B	µg/L	0.036	1	2.0	<0.036	--	<0.036	--	<0.036	10	NE
Toluene	Monthly	EPA 8260B	µg/L	0.025	2	2.0	<0.025	--	<0.025	--	<0.025	10	NE
Methyl tertiary-butyl ether	Monthly	EPA 8260B	µg/L	0.098	1	NE	<0.098	--	<0.098	--	<0.098	NE	5.0
Tertiary butyl alcohol	Monthly	EPA 8260B	µg/L	0.4	5	NE	<0.4	--	<0.4	--	<0.4	NE	12
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	0.04	0.5	0.5	<0.04	--	<0.04	--	<0.04	16	33
Copper (total recoverable) (wet weather)	Monthly	EPA 200.8	µg/L	0.04	0.5	0.5	<0.04	--	<0.04	--	<0.04	13	27
Lead (total recoverable) (dry weather)	Monthly	EPA 200.8	µg/L	0.011	0.5	0.5	<0.011	--	<0.011	--	<0.011	8.2	15
Lead (total recoverable) (wet weather)	Monthly	EPA 200.8	µg/L	0.011	0.5	0.5	<0.011	--	<0.011	--	<0.011	34	106
Mercury (total recoverable)	Monthly	EPA 245.1	µg/L	0.018	0.05	0.2	<0.018	--	<0.018	--	<0.018	0.051	0.14
Selenium (total recoverable)	Monthly	EPA 200.8	µg/L	0.069	0.5	2.0	<0.069	--	<0.069	--	<0.069	3.4	9.2
Thallium (total recoverable)	Monthly	EPA 200.8	µg/L	0.008	0.5	1.0	<0.008	--	0.086 J	--	0.067 J	6.3	13
Zinc (total recoverable) (wet weather) ⁴	Monthly	EPA 200.8	µg/L	0.23	10	1.0	0.5 J	--	1.2 J	--	1.1 J	79	158
Chromium VI	Monthly	EPA 7199	µg/L	0.016	0.2	0.5	0.35	--	--	0.56	1.1	8.1	16
pH	Quarterly	--	s.u.	--	--	NE	--	7.2	--	--	--	--	6.5/8.5
Ammonia Nitrogen (as N)	Quarterly	SM 4500 NH3C	mg/L	0.05	0.1	NE	<0.05	--	--	--	--	NE	NE
Di-isopropyl Ether	Quarterly	EPA 8260B	µg/L	0.034	1	NE	<0.034	--	--	--	--	NE	NE
Methylene Blue Active Substances	Quarterly	SM 5540C	mg/L	0.05	0.05	NE	<0.05	--	--	--	--	NE	NE
Tert-amyl-methyl Ether	Quarterly	EPA 8260B	µg/L	0.054	1	NE	<0.054	--	--	--	--	NE	NE
Turbidity	Quarterly	SM 2130B	NTU	0.1	0.1	NE	<0.1	--	--	--	--	50	75
Methyl ethyl ketone	Quarterly	EPA 8260B	µg/L	0.7	10	NE	<0.7	--	--	--	--	50	NE

Notes

1. ML is the concentration at which the entire analytical system must give a recognizable signal and acceptable calibration point. It is also the concentration in a sample that is equivalent to the concentration of the lowest calibration standard analyzed by a specific analytical procedure, assuming that all the method specified sample weights, volumes, and processing steps have been followed.
 2. California Regional Water Quality Control Board Waste Discharge Requirements (WDRs).
 3. The highest MDL and RL during this reporting period is shown.
 4. There are no dry weather limitations for zinc.
- = not measured or not analyzed.

Abbreviations

- BOD = biological oxygen demand (5 days at 20 degrees Celsius)
 ° 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
 s.u. = standard units
 NTU = nephelometric turbidity units
 mL/L/hr = milliliters per liter per hour
 < = not detected above the MDL
 MDL = laboratory minimum detection limit
 RL = laboratory reporting limit
 ML = minimum level. See note 1.
 NE = not established

TABLE 3

NPDES Effluent Monitoring, Other Priority Pollutants, First Quarter 2015
 SFPP Norwalk Pump Station, Norwalk, California

Analyte	Analytical Method	Units	MDL	RL	1/15/2015	ML ¹
1,1,1-Trichloroethane	EPA 8260B	µg/L	0.072	1.0	<0.072	2
1,1,2,2-Tetrachloroethane	EPA 8260B	µg/L	0.10	1.0	<0.1	1
1,1,2-Trichloroethane	EPA 8260B	µg/L	0.042	1.0	<0.042	2
1,1-Dichloroethene	EPA 8260B	µg/L	0.16	1.0	<0.16	2
1,2,4-Trichlorobenzene	EPA 8260B	µg/L	0.1	1.0	<0.1	5
1,2-Dichlorobenzene	EPA 8260B	µg/L	0.048	1.0	<0.048	2
1,2-Dichloropropane	EPA 8260B	µg/L	0.094	1.0	<0.094	1
1,3-Dichlorobenzene	EPA 8260B	µg/L	0.061	1.0	<0.061	1
1,4-Dichlorobenzene	EPA 8260B	µg/L	0.078	1.0	<0.078	1
Bromodichloromethane	EPA 8260B	µg/L	0.048	1.0	<0.048	2
Bromoform	EPA 8260B	µg/L	0.061	1.0	<0.061	2
Bromomethane	EPA 8260B	µg/L	0.073	1.0	<0.073	2
cis-1,3-Dichloropropene	EPA 8260B	µg/L	0.043	1.0	<0.043	2
Carbon Tetrachloride	EPA 8260B	µg/L	0.057	0.5	<0.057	2
Chlorobenzene	EPA 8260B	µg/L	0.028	1.0	<0.028	2
Chloroethane	EPA 8260B	µg/L	0.099	1.0	<0.099	2
Chloroform	EPA 8260B	µg/L	0.048	1.0	<0.048	2
Chloromethane	EPA 8260B	µg/L	0.043	1.0	0.16 J	2
Dibromochloromethane	EPA 8260B	µg/L	0.057	1.0	<0.057	2
Hexachlorobutadiene	EPA 8260B	µg/L	0.07	1.0	<0.07	1
Methylene Chloride	EPA 8260B	µg/L	0.28	2.0	<0.28	2
Naphthalene	EPA 8260B	µg/L	0.06	1.0	<0.062	1
trans-1,2-Dichloroethene	EPA 8260B	µg/L	0.07	1.0	<0.074	1
trans-1,3-Dichloropropene	EPA 8260B	µg/L	0.05	1.0	<0.051	2
Tetrachloroethene	EPA 8260B	µg/L	0.12	1.0	<0.12	2
Trichloroethene	EPA 8260B	µg/L	0.074	1.0	<0.074	2
Vinyl Chloride	EPA 8260B	µg/L	0.044	0.5	<0.044	2

Note

1. ML is the concentration at which the entire analytical system must give a recognizable signal and acceptable calibration point. It is also the concentration in a sample that is equivalent to the concentration of the lowest calibration standard analyzed by a specific analytical procedure, assuming that all the method specified sample weights, volumes, and processing steps have been followed.

Abbreviations

J = detected at a concentration below the RL and above the MDL. Reported value is estimated.

µg/L = micrograms per liter

< = not detected above the MDL

MDL = laboratory minimum detection limit

ML = minimum level. See note 1.

RL = laboratory reporting limit

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

January 26, 2015

Dan Jablonski
CH2MHill
1000 Wilshire Blvd.
Los Angeles, CA 90017

CA-ELAP No.: 2676
NV Cert. No.: NV-00922

TEL:

FAX:

Workorder No.: N014406

RE: SFPP - Norwalk Site

Attention: Dan Jablonski

Enclosed are the results for sample(s) received on January 16, 2015 by ASSET Laboratories . 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,



Glen Gesmundo
QA Manager

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories - Las Vegas.



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Project: SFPP - Norwalk Site
Lab Order: N014406

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 Test:

Ammonia, MBAS and Phenols were subcontracted to AETL - Burbank, CA .

Analytical Comments for EPA 8260B:

Laboratory Control Sample (LCS) recovery biased high for 2-Butanone. Sample result was non-detect (ND) for this analyte therefore reanalysis of the sample was not necessary.



CLIENT: CH2MHill
Project: SFPP - Norwalk Site
Lab Order: N014406
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N014406-001A	EFF-01-15	Wastewater	1/15/2015 12:35:00 PM	1/16/2015	1/26/2015
N014406-001B	EFF-01-15	Wastewater	1/15/2015 12:35:00 PM	1/16/2015	1/26/2015
N014406-001C	EFF-01-15	Wastewater	1/15/2015 12:35:00 PM	1/16/2015	1/26/2015
N014406-001D	EFF-01-15	Wastewater	1/15/2015 12:35:00 PM	1/16/2015	1/26/2015
N014406-001E	EFF-01-15	Wastewater	1/15/2015 12:35:00 PM	1/16/2015	1/26/2015
N014406-001F	EFF-01-15	Wastewater	1/15/2015 12:35:00 PM	1/16/2015	1/26/2015
N014406-001G	EFF-01-15	Wastewater	1/15/2015 12:35:00 PM	1/16/2015	1/26/2015
N014406-001H	EFF-01-15	Wastewater	1/15/2015 12:35:00 PM	1/16/2015	1/26/2015
N014406-001I	EFF-01-15	Wastewater	1/15/2015 12:35:00 PM	1/16/2015	1/26/2015
N014406-001J	EFF-01-15	Wastewater	1/15/2015 12:35:00 PM	1/16/2015	1/26/2015
N014406-001K	EFF-01-15	Wastewater	1/15/2015 12:35:00 PM	1/16/2015	1/26/2015
N014406-001L	EFF-01-15	Wastewater	1/15/2015 12:35:00 PM	1/16/2015	1/26/2015



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 26-Jan-15

CLIENT: CH2MHiil
Lab Order: N014406
Project: SFPP - Norwalk Site
Lab ID: N014406-001

Client Sample ID: EFF-01-15
Collection Date: 1/15/2015 12:35:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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TOTAL NON-FILTERABLE RESIDUE

SM2540D

RunID: WETCHEM_150119E	QC Batch: 48460				PrepDate: 1/19/2015		Analyst: RB
Suspended Solids (Residue, Non-Filterable)	ND	10	10		mg/L	1	1/19/2015 09:00 AM

SETTLABLE MATTER

SM2540F

RunID: WETCHEM_150118A	QC Batch: 48531				PrepDate: 1/18/2015		Analyst: QBM
Settleable Matter	ND	0.10	0.10		ml/L	1	1/18/2015

TURBIDITY

SM 2130B

RunID: WETCHEM_150117C	QC Batch: R97645				PrepDate:		Analyst: RB
Turbidity	ND	0.10	0.10		NTU	1	1/17/2015

HEXANE EXTRACTABLE MATERIAL (HEM)

EPA 1664 _HEM

RunID: WETCHEM_150122A	QC Batch: 48505				PrepDate: 1/22/2015		Analyst: admin
Oil & Grease	ND	0.82	4.1		mg/L	1	1/22/2015 10:00 AM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_150118A	QC Batch: P15VW013				PrepDate:		Analyst: QBM
1,1,1-Trichloroethane	ND	0.072	1.0		ug/L	1	1/18/2015 05:00 PM
1,1,2,2-Tetrachloroethane	ND	0.10	1.0		ug/L	1	1/18/2015 05:00 PM
1,1,2-Trichloroethane	ND	0.042	1.0		ug/L	1	1/18/2015 05:00 PM
1,1-Dichloroethane	ND	0.054	0.50		ug/L	1	1/18/2015 05:00 PM
1,1-Dichloroethene	ND	0.16	1.0		ug/L	1	1/18/2015 05:00 PM
1,2,4-Trichlorobenzene	ND	0.10	1.0		ug/L	1	1/18/2015 05:00 PM
1,2-Dichlorobenzene	ND	0.048	1.0		ug/L	1	1/18/2015 05:00 PM
1,2-Dichloroethane	ND	0.044	0.50		ug/L	1	1/18/2015 05:00 PM
1,2-Dichloropropane	ND	0.094	1.0		ug/L	1	1/18/2015 05:00 PM
1,3-Dichlorobenzene	ND	0.061	1.0		ug/L	1	1/18/2015 05:00 PM
1,4-Dichlorobenzene	ND	0.078	1.0		ug/L	1	1/18/2015 05:00 PM
2-Butanone	ND	0.70	10		ug/L	1	1/18/2015 05:00 PM
Benzene	ND	0.048	1.0		ug/L	1	1/18/2015 05:00 PM
Bromodichloromethane	ND	0.048	1.0		ug/L	1	1/18/2015 05:00 PM
Bromoform	ND	0.061	1.0		ug/L	1	1/18/2015 05:00 PM
Bromomethane	ND	0.073	1.0		ug/L	1	1/18/2015 05:00 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



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ANALYTICAL RESULTS

Print Date: 26-Jan-15

CLIENT: CH2MHill
Lab Order: N014406
Project: SFPP - Norwalk Site
Lab ID: N014406-001

Client Sample ID: EFF-01-15
Collection Date: 1/15/2015 12:35:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_150118A	QC Batch: P15VW013	PrepDate:	Analyst: QBM			
Carbon tetrachloride	ND	0.057	0.50	ug/L	1	1/18/2015 05:00 PM
Chlorobenzene	ND	0.028	1.0	ug/L	1	1/18/2015 05:00 PM
Chloroethane	ND	0.099	1.0	ug/L	1	1/18/2015 05:00 PM
Chloroform	ND	0.048	1.0	ug/L	1	1/18/2015 05:00 PM
Chloromethane	0.16	0.043	1.0	J ug/L	1	1/18/2015 05:00 PM
cis-1,3-Dichloropropene	ND	0.043	1.0	ug/L	1	1/18/2015 05:00 PM
Di-isopropyl ether	ND	0.034	1.0	ug/L	1	1/18/2015 05:00 PM
Dibromochloromethane	ND	0.057	1.0	ug/L	1	1/18/2015 05:00 PM
Ethylbenzene	ND	0.036	1.0	ug/L	1	1/18/2015 05:00 PM
Hexachlorobutadiene	ND	0.070	1.0	ug/L	1	1/18/2015 05:00 PM
m,p-Xylene	ND	0.14	1.0	ug/L	1	1/18/2015 05:00 PM
Methylene chloride	ND	0.28	2.0	ug/L	1	1/18/2015 05:00 PM
MTBE	ND	0.098	1.0	ug/L	1	1/18/2015 05:00 PM
Naphthalene	ND	0.062	1.0	ug/L	1	1/18/2015 05:00 PM
o-Xylene	ND	0.042	1.0	ug/L	1	1/18/2015 05:00 PM
Tert-amyl methyl ether	ND	0.054	1.0	ug/L	1	1/18/2015 05:00 PM
Tert-Butanol	ND	0.40	5.0	ug/L	1	1/18/2015 05:00 PM
Tetrachloroethene	ND	0.12	1.0	ug/L	1	1/18/2015 05:00 PM
Toluene	ND	0.025	2.0	ug/L	1	1/18/2015 05:00 PM
trans-1,2-Dichloroethene	ND	0.074	1.0	ug/L	1	1/18/2015 05:00 PM
trans-1,3-Dichloropropene	ND	0.051	1.0	ug/L	1	1/18/2015 05:00 PM
Trichloroethene	ND	0.074	1.0	ug/L	1	1/18/2015 05:00 PM
Vinyl chloride	ND	0.044	0.50	ug/L	1	1/18/2015 05:00 PM
Xylenes, Total	ND	1.5	2.0	ug/L	1	1/18/2015 05:00 PM
Surr: 1,2-Dichloroethane-d4	92.5	0	72-119	%REC	1	1/18/2015 05:00 PM
Surr: 4-Bromofluorobenzene	91.8	0	76-119	%REC	1	1/18/2015 05:00 PM
Surr: Dibromofluoromethane	97.0	0	85-115	%REC	1	1/18/2015 05:00 PM
Surr: Toluene-d8	100	0	81-120	%REC	1	1/18/2015 05:00 PM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID: GC3_150119A	QC Batch: 48456	PrepDate: 1/19/2015	Analyst: MDM			
TPH-Diesel (C13-C22)	ND	15	25	ug/L	1	1/19/2015 04:06 PM
TPH-Oil (C23-C36)	ND	14	25	ug/L	1	1/19/2015 04:06 PM
Surr: Octacosane	80.3	0	26-152	%REC	1	1/19/2015 04:06 PM
Surr: p-Terphenyl	77.9	0	57-132	%REC	1	1/19/2015 04:06 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



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ANALYTICAL RESULTS

Print Date: 26-Jan-15

CLIENT: CH2Mhill
Lab Order: N014406
Project: SFPP - Norwalk Site
Lab ID: N014406-001

Client Sample ID: EFF-01-15
Collection Date: 1/15/2015 12:35:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_150119A	QC Batch: E15VW005				PrepDate:		Analyst: QBM
TPH-Gasoline (C4-C12)	ND	16	50		ug/L	1	1/19/2015 11:10 AM
Surr: Chlorobenzene - d5	108	0	74-138		%REC	1	1/19/2015 11:10 AM

HEXAVALENT CHROMIUM BY IC

EPA 7199

RunID: IC6_150116A	QC Batch: R97567				PrepDate:		Analyst: RB
Hexavalent Chromium	0.35	0.016	0.20		µg/L	1	1/16/2015 11:57 AM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 245.1

RunID: AA1_150120A	QC Batch: 48471				PrepDate: 1/20/2015		Analyst: CEI
Mercury	ND	0.018	0.050		µg/L	1	1/20/2015 04:27 PM

TOTAL METALS BY COLLISION/REACTION CELL ICPMS

EPA 200.8

RunID: ICP7_150119C	QC Batch: 48466				PrepDate: 1/19/2015		Analyst: CEI
Selenium	ND	0.069	0.50		µg/L	1	1/20/2015 06:21 AM

TOTAL METALS BY ICPMS

EPA 200.8

RunID: ICP7_150119C	QC Batch: 48466				PrepDate: 1/19/2015		Analyst: CEI
Copper	ND	0.040	0.50		µg/L	1	1/20/2015 06:21 AM
Lead	ND	0.011	0.50		µg/L	1	1/20/2015 06:21 AM
Thallium	ND	0.0080	0.50		µg/L	1	1/20/2015 06:21 AM
Zinc	0.50	0.23	10	J	µg/L	1	1/20/2015 06:21 AM

TOTAL TPH

EPA 3510C

EPA 8015B

RunID: GC3_150119A	QC Batch: 48456				PrepDate: 1/19/2015		Analyst: MDM
Total TPH	ND	22	50		ug/L	1	1/19/2015 04:06 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



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CLIENT: CH2MHill
Work Order: N014406
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: MB-48460	SampType: MBLK	TestCode: 160.2_2540D	Units: mg/L	Prep Date: 1/19/2015	RunNo: 97654						
Client ID: PBW	Batch ID: 48460	TestNo: SM2540D	Analysis Date: 1/19/2015	SeqNo: 1915166							
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-48460	SampType: LCS	TestCode: 160.2_2540D	Units: mg/L	Prep Date: 1/19/2015	RunNo: 97654						
Client ID: LCSW	Batch ID: 48460	TestNo: SM2540D	Analysis Date: 1/19/2015	SeqNo: 1915167							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter)	923.000	10	1000	0	92.3	80	120				

Sample ID: N014406-001DDUP	SampType: DUP	TestCode: 160.2_2540D	Units: mg/L	Prep Date: 1/19/2015	RunNo: 97654						
Client ID: ZZZZZ	Batch ID: 48460	TestNo: SM2540D	Analysis Date: 1/19/2015	SeqNo: 1915172							
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
 - J Analyte detected below quantitation limits
 - S Spike/Surrogate outside of limits due to matrix interference
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - DO Surrogate Diluted Out
 - H Holding times for preparation or analysis exceeded
 - R RPD outside accepted recovery limits
- Calculations are based on raw values



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CLIENT: CH2MHill
Work Order: N014406
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.5_2540F_W

Sample ID: MB-48531	SampType: MBLK	TestCode: 160.5_2540F_ Units: m/L	Prep Date: 1/26/2015	RunNo: 97712							
Client ID: PBW	Batch ID: 48531	TestNo: SM2540F	Analysis Date: 1/18/2015	SeqNo: 1918519							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Settleable Matter	ND	0.10									

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 |



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CLIENT: CH2MHill
Work Order: N014406
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_DRC

Sample ID: MB-48466	SampType: MBLK	TestCode: 200.8_W_DR	Units: µg/L	Prep Date: 1/19/2015	RunNo: 97627						
Client ID: PBW	Batch ID: 48466	TestNo: EPA 200.8		Analysis Date: 1/20/2015	SeqNo: 1913661						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	ND	0.50									

Sample ID: LCS-48466	SampType: LCS	TestCode: 200.8_W_DR	Units: µg/L	Prep Date: 1/19/2015	RunNo: 97627						
Client ID: LCSW	Batch ID: 48466	TestNo: EPA 200.8		Analysis Date: 1/20/2015	SeqNo: 1913662						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	9.678	0.50	10.00	0	96.8	85	115				

Sample ID: N014406-001E-MS	SampType: MS	TestCode: 200.8_W_DR	Units: µg/L	Prep Date: 1/19/2015	RunNo: 97627						
Client ID: ZZZZZ	Batch ID: 48466	TestNo: EPA 200.8		Analysis Date: 1/20/2015	SeqNo: 1913666						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	8.793	0.50	10.00	0	87.9	75	125				

Sample ID: N014406-001E-MSD	SampType: MSD	TestCode: 200.8_W_DR	Units: µg/L	Prep Date: 1/19/2015	RunNo: 97627						
Client ID: ZZZZZ	Batch ID: 48466	TestNo: EPA 200.8		Analysis Date: 1/20/2015	SeqNo: 1913667						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	9.127	0.50	10.00	0	91.3	75	125	8.793	3.72	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: CH2MHill
Work Order: N014406
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: MB-48466		SampType: MBLK		TestCode: 200.8_W_SFPP Units: µg/L			Prep Date: 1/19/2015		RunNo: 97627		
Client ID: PBW		Batch ID: 48466		TestNo: EPA 200.8			Analysis Date: 1/20/2015		SeqNo: 1913821		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	ND	0.50									
Lead	0.083	0.50									J
Thallium	ND	0.50									
Zinc	ND	10									

Sample ID: LCS-48466		SampType: LCS		TestCode: 200.8_W_SFPP Units: µg/L			Prep Date: 1/19/2015		RunNo: 97627		
Client ID: LCSW		Batch ID: 48466		TestNo: EPA 200.8			Analysis Date: 1/20/2015		SeqNo: 1913822		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	10.947	0.50	10.00	0	109	85	115				
Lead	10.834	0.50	10.00	0	108	85	115				
Thallium	10.982	0.50	10.00	0	110	85	115				
Zinc	100.447	10	100.0	0	100	85	115				

Sample ID: N014406-001E-MS		SampType: MS		TestCode: 200.8_W_SFPP Units: µg/L			Prep Date: 1/19/2015		RunNo: 97627		
Client ID: ZZZZZ		Batch ID: 48466		TestNo: EPA 200.8			Analysis Date: 1/20/2015		SeqNo: 1913826		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	7.570	0.50	10.00	0	75.7	75	125				
Lead	10.357	0.50	10.00	0	104	75	125				
Thallium	10.610	0.50	10.00	0	106	75	125				
Zinc	83.632	10	100.0	0.4966	83.1	75	125				

Sample ID: N014406-001E-MSD		SampType: MSD		TestCode: 200.8_W_SFPP Units: µg/L			Prep Date: 1/19/2015		RunNo: 97627		
Client ID: ZZZZZ		Batch ID: 48466		TestNo: EPA 200.8			Analysis Date: 1/20/2015		SeqNo: 1913827		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	7.745	0.50	10.00	0	77.4	75	125	7.570	2.28	20	
Lead	10.283	0.50	10.00	0	103	75	125	10.36	0.714	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: CH2MHill
Work Order: N014406
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: N014406-001E-MSD		SampType: MSD		TestCode: 200.8_W_SFPP Units: µg/L			Prep Date: 1/19/2015		RunNo: 97627		
Client ID: ZZZZZZ		Batch ID: 48466		TestNo: EPA 200.8			Analysis Date: 1/20/2015		SeqNo: 1913827		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	10.559	0.50	10.00	0	106	75	125	10.61	0.480	20	
Zinc	84.821	10	100.0	0.4966	84.3	75	125	83.63	1.41	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: CH2MHill
Work Order: N014406
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 2130_W

Sample ID: N014406-001DDUP	SampType: DUP	TestCode: 2130_W	Units: NTU	Prep Date:	RunNo: 97645						
Client ID: ZZZZZZ	Batch ID: R97645	TestNo: SM 2130B		Analysis Date: 1/17/2015	SeqNo: 1914973						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Turbidity	ND	0.10						0	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 |



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CLIENT: CH2MHill
Work Order: N014406
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W_LL

Sample ID: MB-48471	SampType: MBLK	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 1/20/2015	RunNo: 97624						
Client ID: PBW	Batch ID: 48471	TestNo: EPA 245.1		Analysis Date: 1/20/2015	SeqNo: 1913217						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.050									

Sample ID: LCS-48471	SampType: LCS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 1/20/2015	RunNo: 97624						
Client ID: LCSW	Batch ID: 48471	TestNo: EPA 245.1		Analysis Date: 1/20/2015	SeqNo: 1913220						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.551	0.050	2.500	0	102	85	115				

Sample ID: N014406-001E-MS	SampType: MS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 1/20/2015	RunNo: 97624						
Client ID: ZZZZZ	Batch ID: 48471	TestNo: EPA 245.1		Analysis Date: 1/20/2015	SeqNo: 1913221						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.597	0.050	2.500	0	104	75	125				

Sample ID: N014406-001E-MSD	SampType: MSD	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 1/20/2015	RunNo: 97624						
Client ID: ZZZZZ	Batch ID: 48471	TestNo: EPA 245.1		Analysis Date: 1/20/2015	SeqNo: 1913222						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.623	0.050	2.500	0	105	75	125	2.597	1.01	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: CH2MHill
Work Order: N014406
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 7199_WPGE

Sample ID: MB-R97567	SampType: MBLK	TestCode: 7199_WPGE	Units: µg/L	Prep Date:	RunNo: 97567						
Client ID: PBW	Batch ID: R97567	TestNo: EPA 7199		Analysis Date: 1/16/2015	SeqNo: 1910495						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	ND	0.20
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Sample ID: LCS-R97567	SampType: LCS	TestCode: 7199_WPGE	Units: µg/L	Prep Date:	RunNo: 97567						
Client ID: LCSW	Batch ID: R97567	TestNo: EPA 7199		Analysis Date: 1/16/2015	SeqNo: 1910496						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.023	0.20	5.000	0	100	90	110
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Sample ID: N014403-001A-DUP	SampType: DUP	TestCode: 7199_WPGE	Units: µg/L	Prep Date:	RunNo: 97567						
Client ID: ZZZZZ	Batch ID: R97567	TestNo: EPA 7199		Analysis Date: 1/16/2015	SeqNo: 1910498						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.772	0.20				1.763	0.487	20
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Sample ID: N014403-001A-MSD	SampType: MSD	TestCode: 7199_WPGE	Units: µg/L	Prep Date:	RunNo: 97567						
Client ID: ZZZZZ	Batch ID: R97567	TestNo: EPA 7199		Analysis Date: 1/16/2015	SeqNo: 1910499						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	2.838	0.20	1.000	1.763	108	85	115	2.815	0.838	20
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Sample ID: N014403-001A-MS	SampType: MS	TestCode: 7199_WPGE	Units: µg/L	Prep Date:	RunNo: 97567						
Client ID: ZZZZZ	Batch ID: R97567	TestNo: EPA 7199		Analysis Date: 1/16/2015	SeqNo: 1910504						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	2.815	0.20	1.000	1.763	105	85	115
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Qualifiers:

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|--|--|--|
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ANALYTICAL QC SUMMARY REPORT

TestCode: 7199_WPGE

Sample ID: N014406-001F-REP	SampType: DUP	TestCode: 7199_WPGE	Units: µg/L	Prep Date:	RunNo: 97567						
Client ID: ZZZZZ	Batch ID: R97567	TestNo: EPA 7199	Analysis Date: 1/16/2015	SeqNo: 1910508							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.332	0.20						0.3505	5.48	20	

Qualifiers:

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ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-48456	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 1/19/2015	RunNo: 97608						
Client ID: PBW	Batch ID: 48456	TestNo: EPA 8015B EPA 3510C		Analysis Date: 1/19/2015	SeqNo: 1912272						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	25									
TPH-Oil (C23-C36)	ND	25									
Surr: Octacosane	78.519		80.00		98.1	26	152				
Surr: p-Terphenyl	75.866		80.00		94.8	57	132				

Qualifiers:

- | | | |
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ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

Sample ID: MB-48456	SampType: MBLK	TestCode: 8015_W_SFP	Units: ug/L	Prep Date: 1/19/2015	RunNo: 97608						
Client ID: PBW	Batch ID: 48456	TestNo: EPA 8015B EPA 3510C		Analysis Date: 1/19/2015	SeqNo: 1912710						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	0	50									

Qualifiers:

- | | | |
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ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID: E150119LCS	SampType: LCS	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 97613						
Client ID: LCSW	Batch ID: E15VW005	TestNo: EPA 8015B	Analysis Date: 1/19/2015	SeqNo: 1912724							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	880.000	50	1000	0	88.0	67	136				
Surr: Chlorobenzene - d5	50933.000		50000		102	74	138				

Sample ID: E150119MB1	SampType: MBLK	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 97613						
Client ID: PBW	Batch ID: E15VW005	TestNo: EPA 8015B	Analysis Date: 1/19/2015	SeqNo: 1912725							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	ND	50									
Surr: Chlorobenzene - d5	53363.000		50000		107	74	138				

Sample ID: N014406-001JMS	SampType: MS	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 97613						
Client ID: ZZZZZ	Batch ID: E15VW005	TestNo: EPA 8015B	Analysis Date: 1/19/2015	SeqNo: 1912727							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	917.000	50	1000	0	91.7	67	136				
Surr: Chlorobenzene - d5	54940.000		50000		110	74	138				

Sample ID: N014406-001JMSD	SampType: MSD	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 97613						
Client ID: ZZZZZ	Batch ID: E15VW005	TestNo: EPA 8015B	Analysis Date: 1/19/2015	SeqNo: 1912728							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	933.000	50	1000	0	93.3	67	136	917.0	1.73	30	
Surr: Chlorobenzene - d5	55081.000		50000		110	74	138		0	0	

Qualifiers:

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Work Order: N014406
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P150118LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 97604						
Client ID: LCSW	Batch ID: P15VW013	TestNo: EPA 8260B		Analysis Date: 1/18/2015	SeqNo: 1911833						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	18.150	1.0	20.00	0	90.8	67	132				
1,1,2,2-Tetrachloroethane	19.450	1.0	20.00	0	97.3	63	128				
1,1,2-Trichloroethane	20.090	1.0	20.00	0	100	75	125				
1,1-Dichloroethane	17.130	0.50	20.00	0	85.7	69	133				
1,1-Dichloroethene	17.720	1.0	20.00	0	88.6	68	130				
1,2,4-Trichlorobenzene	18.440	1.0	20.00	0	92.2	66	134				
1,2-Dichlorobenzene	21.380	1.0	20.00	0	107	71	122				
1,2-Dichloroethane	18.510	0.50	20.00	0	92.6	69	132				
1,2-Dichloropropane	17.610	1.0	20.00	0	88.0	75	125				
1,3-Dichlorobenzene	19.760	1.0	20.00	0	98.8	75	124				
1,4-Dichlorobenzene	20.180	1.0	20.00	0	101	74	123				
2-Butanone	300.810	10	200.0	0	150	49	136				S
Benzene	19.350	1.0	20.00	0	96.8	81	122				
Bromodichloromethane	21.670	1.0	20.00	0	108	76	121				
Bromoform	22.940	1.0	20.00	0	115	69	128				
Bromomethane	14.540	1.0	20.00	0	72.7	53	141				
Carbon tetrachloride	25.280	0.50	20.00	0	126	66	138				
Chlorobenzene	19.280	1.0	20.00	0	96.4	81	122				
Chloroethane	17.830	1.0	20.00	0	89.2	58	133				
Chloroform	17.980	1.0	20.00	0	89.9	69	128				
Chloromethane	12.390	1.0	20.00	0	62.0	56	131				
cis-1,3-Dichloropropene	19.740	1.0	20.00	0	98.7	69	131				
Di-isopropyl ether	15.770	1.0	20.00	0	78.8	70	130				
Dibromochloromethane	23.420	1.0	20.00	0	117	66	133				
Ethylbenzene	18.850	1.0	20.00	0	94.3	73	127				
Hexachlorobutadiene	20.820	1.0	20.00	0	104	67	131				
m,p-Xylene	38.300	1.0	40.00	0	95.8	76	128				
Methylene chloride	17.010	2.0	20.00	0	85.0	63	137				
MTBE	17.460	1.0	20.00	0	87.3	65	123				
Naphthalene	20.350	1.0	20.00	0	102	54	138				

Qualifiers:

- | | | |
|--|--|--|
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Work Order: N014406
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P150118LCS		SampType: LCS		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 97604			
Client ID: LCSW		Batch ID: P15VW013		TestNo: EPA 8260B		Analysis Date: 1/18/2015		SeqNo: 1911833			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	19.110	1.0	20.00	0	95.6	80	121				
Tert-amyl methyl ether	18.890	1.0	20.00	0	94.4	70	130				
Tert-Butanol	86.780	5.0	100.0	0	86.8	70	130				
Tetrachloroethene	18.840	1.0	20.00	0	94.2	66	128				
Toluene	19.900	2.0	20.00	0	99.5	77	122				
trans-1,2-Dichloroethene	18.210	1.0	20.00	0	91.1	63	137				
trans-1,3-Dichloropropene	20.440	1.0	20.00	0	102	59	135				
Trichloroethene	20.070	1.0	20.00	0	100	70	127				
Vinyl chloride	16.820	0.50	20.00	0	84.1	50	134				
Xylenes, Total	57.410	2.0	60.00	0	95.7	75	125				
Surr: 1,2-Dichloroethane-d4	22.560		25.00		90.2	72	119				
Surr: 4-Bromofluorobenzene	25.200		25.00		101	76	119				
Surr: Dibromofluoromethane	23.760		25.00		95.0	85	115				
Surr: Toluene-d8	25.120		25.00		100	81	120				

Sample ID: N014413-001AMS		SampType: MS		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 97604			
Client ID: ZZZZZZ		Batch ID: P15VW013		TestNo: EPA 8260B		Analysis Date: 1/18/2015		SeqNo: 1911834			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	18.770	1.0	20.00	0	93.8	67	132				
1,1,2,2-Tetrachloroethane	20.880	1.0	20.00	0	104	63	128				
1,1,2-Trichloroethane	21.730	1.0	20.00	0	109	75	125				
1,1-Dichloroethane	17.580	0.50	20.00	0	87.9	69	133				
1,1-Dichloroethene	18.120	1.0	20.00	0	90.6	68	130				
1,2,4-Trichlorobenzene	18.710	1.0	20.00	0	93.6	66	134				
1,2-Dichlorobenzene	22.330	1.0	20.00	0	112	71	122				
1,2-Dichloroethane	19.520	0.50	20.00	0	97.6	69	132				
1,2-Dichloropropane	18.490	1.0	20.00	0	92.5	75	125				
1,3-Dichlorobenzene	20.450	1.0	20.00	0	102	75	124				
1,4-Dichlorobenzene	20.870	1.0	20.00	0	104	74	123				

Qualifiers:

- | | | |
|--|--|--|
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ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N014413-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 97604						
Client ID: ZZZZZ	Batch ID: P15VW013	TestNo: EPA 8260B		Analysis Date: 1/18/2015	SeqNo: 1911834						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butanone	171.500	10	200.0	0	85.8	49	136				
Benzene	19.820	1.0	20.00	0	99.1	81	122				
Bromodichloromethane	22.200	1.0	20.00	0	111	76	121				
Bromoform	24.520	1.0	20.00	0	123	69	128				
Bromomethane	15.290	1.0	20.00	0	76.5	53	141				
Carbon tetrachloride	23.790	0.50	20.00	0	119	66	138				
Chlorobenzene	20.670	1.0	20.00	0	103	81	122				
Chloroethane	18.430	1.0	20.00	0	92.2	58	133				
Chloroform	18.630	1.0	20.00	0	93.2	69	128				
Chloromethane	13.050	1.0	20.00	0	65.3	56	131				
cis-1,3-Dichloropropene	20.010	1.0	20.00	0	100	69	131				
Di-isopropyl ether	16.670	1.0	20.00	0	83.4	70	130				
Dibromochloromethane	24.830	1.0	20.00	0	124	66	133				
Ethylbenzene	19.640	1.0	20.00	0	98.2	73	127				
Hexachlorobutadiene	21.030	1.0	20.00	0	105	67	131				
m,p-Xylene	39.860	1.0	40.00	0	99.7	76	128				
Methylene chloride	17.440	2.0	20.00	0	87.2	63	137				
MTBE	18.500	1.0	20.00	0	92.5	65	123				
Naphthalene	21.100	1.0	20.00	0	106	54	138				
o-Xylene	20.180	1.0	20.00	0	101	80	121				
Tert-amyl methyl ether	19.570	1.0	20.00	0	97.9	70	130				
Tert-Butanol	88.740	5.0	100.0	0	88.7	70	130				
Tetrachloroethene	19.580	1.0	20.00	0	97.9	66	128				
Toluene	20.480	2.0	20.00	0	102	77	122				
trans-1,2-Dichloroethene	18.450	1.0	20.00	0	92.2	63	137				
trans-1,3-Dichloropropene	20.820	1.0	20.00	0	104	59	135				
Trichloroethene	20.720	1.0	20.00	0	104	70	127				
Vinyl chloride	17.050	0.50	20.00	0	85.2	50	134				
Xylenes, Total	60.040	2.0	60.00	0	100	75	125				
Surr: 1,2-Dichloroethane-d4	22.420		25.00		89.7	72	119				

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
 P: 562.219.7435 F: 562.219.7436

NEVADA
 3151 W. Post Rd., Las Vegas, NV 89118
 P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N014406
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N014413-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 97604						
Client ID: ZZZZZ	Batch ID: P15VW013	TestNo: EPA 8260B	Analysis Date: 1/18/2015	SeqNo: 1911834							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	25.390		25.00		102	76	119				
Surr: Dibromofluoromethane	24.300		25.00		97.2	85	115				
Surr: Toluene-d8	25.060		25.00		100	81	120				

Sample ID: N014413-001AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 97604						
Client ID: ZZZZZ	Batch ID: P15VW013	TestNo: EPA 8260B	Analysis Date: 1/18/2015	SeqNo: 1911835							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	18.560	1.0	20.00	0	92.8	67	132	18.77	1.13	20	
1,1,2,2-Tetrachloroethane	20.680	1.0	20.00	0	103	63	128	20.88	0.962	20	
1,1,2-Trichloroethane	21.030	1.0	20.00	0	105	75	125	21.73	3.27	20	
1,1-Dichloroethane	16.990	0.50	20.00	0	85.0	69	133	17.58	3.41	20	
1,1-Dichloroethene	17.460	1.0	20.00	0	87.3	68	130	18.12	3.71	20	
1,2,4-Trichlorobenzene	17.470	1.0	20.00	0	87.4	66	134	18.71	6.85	20	
1,2-Dichlorobenzene	21.320	1.0	20.00	0	107	71	122	22.33	4.63	20	
1,2-Dichloroethane	19.180	0.50	20.00	0	95.9	69	132	19.52	1.76	20	
1,2-Dichloropropane	18.490	1.0	20.00	0	92.5	75	125	18.49	0	20	
1,3-Dichlorobenzene	19.670	1.0	20.00	0	98.4	75	124	20.45	3.89	20	
1,4-Dichlorobenzene	20.390	1.0	20.00	0	102	74	123	20.87	2.33	20	
2-Butanone	169.730	10	200.0	0	84.9	49	136	171.5	1.04	20	
Benzene	19.890	1.0	20.00	0	99.4	81	122	19.82	0.353	20	
Bromodichloromethane	21.740	1.0	20.00	0	109	76	121	22.20	2.09	20	
Bromoform	23.950	1.0	20.00	0	120	69	128	24.52	2.35	20	
Bromomethane	14.780	1.0	20.00	0	73.9	53	141	15.29	3.39	20	
Carbon tetrachloride	24.830	0.50	20.00	0	124	66	138	23.79	4.28	20	
Chlorobenzene	19.570	1.0	20.00	0	97.9	81	122	20.67	5.47	20	
Chloroethane	17.470	1.0	20.00	0	87.4	58	133	18.43	5.35	20	
Chloroform	17.970	1.0	20.00	0	89.8	69	128	18.63	3.61	20	
Chloromethane	12.130	1.0	20.00	0	60.6	56	131	13.05	7.31	20	
cis-1,3-Dichloropropene	19.850	1.0	20.00	0	99.2	69	131	20.01	0.803	20	

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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NEVADA
 3151 W. Post Rd., Las Vegas, NV 89118
 P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
 Work Order: N014406
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N014413-001AMSD		SampType: MSD		TestCode: 8260_WP_SF		Units: ug/L		Prep Date:		RunNo: 97604	
Client ID: ZZZZZ		Batch ID: P15VW013		TestNo: EPA 8260B		Analysis Date: 1/18/2015				SeqNo: 1911835	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-isopropyl ether	15.960	1.0	20.00	0	79.8	70	130	16.67	4.35	20	
Dibromochloromethane	23.910	1.0	20.00	0	120	66	133	24.83	3.78	20	
Ethylbenzene	18.990	1.0	20.00	0	95.0	73	127	19.64	3.37	20	
Hexachlorobutadiene	18.900	1.0	20.00	0	94.5	67	131	21.03	10.7	20	
m,p-Xylene	37.600	1.0	40.00	0	94.0	76	128	39.86	5.84	20	
Methylene chloride	17.280	2.0	20.00	0	86.4	63	137	17.44	0.922	20	
MTBE	17.860	1.0	20.00	0	89.3	65	123	18.50	3.52	20	
Naphthalene	19.840	1.0	20.00	0	99.2	54	138	21.10	6.16	20	
o-Xylene	19.250	1.0	20.00	0	96.2	80	121	20.18	4.72	20	
Tert-amyl methyl ether	19.100	1.0	20.00	0	95.5	70	130	19.57	2.43	20	
Tert-Butanol	100.790	5.0	100.0	0	101	70	130	88.74	12.7	20	
Tetrachloroethene	18.420	1.0	20.00	0	92.1	66	128	19.58	6.11	20	
Toluene	20.010	2.0	20.00	0	100	77	122	20.48	2.32	20	
trans-1,2-Dichloroethene	18.150	1.0	20.00	0	90.8	63	137	18.45	1.64	20	
trans-1,3-Dichloropropene	20.920	1.0	20.00	0	105	59	135	20.82	0.479	20	
Trichloroethene	20.530	1.0	20.00	0	103	70	127	20.72	0.921	20	
Vinyl chloride	16.640	0.50	20.00	0	83.2	50	134	17.05	2.43	20	
Xylenes, Total	56.850	2.0	60.00	0	94.8	75	125	60.04	5.46	20	
Surr: 1,2-Dichloroethane-d4	22.350		25.00		89.4	72	119		0		
Surr: 4-Bromofluorobenzene	25.030		25.00		100	76	119		0		
Surr: Dibromofluoromethane	23.640		25.00		94.6	85	115		0		
Surr: Toluene-d8	25.250		25.00		101	81	120		0		

Sample ID: P150118MB3		SampType: MBLK		TestCode: 8260_WP_SF		Units: ug/L		Prep Date:		RunNo: 97604	
Client ID: PBW		Batch ID: P15VW013		TestNo: EPA 8260B		Analysis Date: 1/18/2015				SeqNo: 1911836	
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									

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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 P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N014406
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P150118MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 97604
Client ID: PBW	Batch ID: P15VW013	TestNo: EPA 8260B		Analysis Date: 1/18/2015	SeqNo: 1911836

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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									
Benzene	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	1.0									
Chloroethane	ND	1.0									
Chloroform	ND	1.0									
Chloromethane	0.190	1.0									J
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	ND	2.0									
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									

Qualifiers:

- | | | |
|--|--|--|
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CLIENT: CH2MHill
Work Order: N014406
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P150118MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 97604						
Client ID: PBW	Batch ID: P15VW013	TestNo: EPA 8260B		Analysis Date: 1/18/2015	SeqNo: 1911836						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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	0.50									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	22.840		25.00		91.4	72	119				
Surr: 4-Bromofluorobenzene	23.560		25.00		94.2	76	119				
Surr: Dibromofluoromethane	24.030		25.00		96.1	85	115				
Surr: Toluene-d8	24.980		25.00		99.9	81	120				

Qualifiers:

- | | | |
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ASSET Laboratories

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: 1/16/2014 Workorder: N014406
 Rep sample Temp (Deg C): 4.6 IR Gun ID: 1
 Temp Blank: Yes No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 1091 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 <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments

Checklist Completed B JPG 01/16/15

Reviewed By: [Signature] 01/20/15

ASSET Laboratories

WORK ORDER Summary

19-Jan-15

WorkOrder: N014406

Client ID: CH2HI03

Project: SFPP - Norwalk Site

QC Level: RTNE

Date Received: 1/16/2015

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

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N014406-001A	EFF-01-15	1/15/2015 12:35:00 PM	1/23/2015	Wastewater	SM4500-NH3C	AMMONIA-N	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB
N014406-001B			1/20/2015		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N014406-001C			1/23/2015		SM 5540 C	SURFACTANTS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB
N014406-001D			1/23/2015		SM2540D	TOTAL NON-FILTERABLE RESIDUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2015			Total Suspended Solids Prep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2015		SM 2130B	TURBIDITY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N014406-001E			1/23/2015			AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2015		EPA 200.8	TOTAL METALS BY COLLISION/REACTION CELL ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2015		EPA 200.8	TOTAL METALS BY ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2015		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2015			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N014406-001F			1/23/2015		EPA 7199	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N014406-001G			1/23/2015			Oil and Grease Sample Prep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2015		EPA 1664 _HEM	Hexane Extractable Material (HEM)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N014406-001H			1/23/2015		SM2540F	SETTLEABLE MATTER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N014406-001I			1/23/2015		EPA 420.1	PHENOLICS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB
N014406-001J			1/23/2015		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N014406-001K			1/23/2015		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2015		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/23/2015		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

19-Jan-15

WorkOrder: N014406

Client ID: CH2HI03

Project: SFPP - Norwalk Site

QC Level: RTNE

Date Received: 1/16/2015

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

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N014406-001L	EFF-01-15	1/15/2015 12:35:00 PM	1/23/2015	Wastewater	EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WV
N014406-002A	FOLDER		1/20/2015		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB



800-322-5555 www.gso.com

Ship From

ASSET LABORATORIES
MOLKY BRAR
11060 ARTESIA BLVD., STE. C
CERRITOS, CA 90703

Tracking #: 526661091

CPS



Ship To

ATL INC
MARLON CARTIN
3151 W. POST RD.,
LAS VEGAS, NV 89118

LVS
LAS VEGAS

COD: \$0.00

Weight: 0 lb(s)

Reference:

N89103A

Delivery Instructions:



Signature Type: REQUIRED

32958178

Print Date: 1/15/2015 5:35 PM

Package 1 of 2

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer. Securely attach this label to your package, do not cover the barcode.



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

ASSET Laboratories
3151-3153 W Post Road
Las Vegas, NV 89118-

Number of Pages 4
Date Received 01/16/2015
Date Reported 01/20/2015

Telephone: (702)307-2659
Attention: Marlon Cartin

Job Number	Order Date	Client
75676	01/16/2015	ASSET

Project ID: N014406
Project Name: N14406A

Enclosed please find results of analyses of 1 waste 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: _____

Cyrus Razmara, Ph.D.
Laboratory Director

75676

CHAIN OF CUSTODY RECORD

Contact us:
 Nevada: 3151 W. Post Road, Las Vegas, NV 89118
 P: 702.307.2659 F: 702.307.2691
 California: 11050 Artesian Blvd., Ste C, Carrizo, CA 90703
 P: 562.219.7435 F: 562.219.7436
 www.assetlaboratories.com

Page 1 of 1

Client: ASSET Labs		Report to:	Bill to:	EDD Requirement		QA/QC		Sample Receipt Certification	
Address:		Company:	Address:	Excel EDD	<input type="checkbox"/>	RTNE	<input type="checkbox"/>	1. Cilled	<input type="checkbox"/>
Address:		Email:	Address:	Geotracker	<input type="checkbox"/>	RWQCB	<input type="checkbox"/>	2. Handpacked	<input type="checkbox"/>
Phone:	Fax:	Address:	Email to:	Labpac	<input type="checkbox"/>	CalTrans	<input type="checkbox"/>	3. Container Intact	<input type="checkbox"/>
Submitted By: Molky Bran		Address:	PO#	Others	<input type="checkbox"/>	Level III	<input type="checkbox"/>	4. Seal Present	<input type="checkbox"/>
Title:		Address:	Phone:	Specify:		LEVEL IV	<input type="checkbox"/>	5. IR number	
Signature:		Address:	Fax:	Global ID:		Regulatory	<input type="checkbox"/>	6. Method of Cooling	
Date:		Address:				Specify State:		7. Sample Temp:	
Sampled By:		Matrix		Analysis Requested					
Date:		Ground	<input type="checkbox"/>	Bediment	<input type="checkbox"/>				
Signature:		Petoble	<input type="checkbox"/>	Soil	<input type="checkbox"/>				
Date:		NPDES	<input type="checkbox"/>	Other Solid	<input type="checkbox"/>				
Signature:		Surface	<input type="checkbox"/>						

I hereby authorize ASSET Labs to perform the tests indicated below:

Project Name: **SFP - Newark Site**
 Project Number:

I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Item No.	Laboratory Work Order No.	Sample ID/Location	Date	Time	Water	Solid	Others	Turn Around Time	No. of container	Container Type	PRESERVATION	Courier	Tracking No.	Remarks
1	75676.01	EFF-01-15	1/15/15	1235	WW			3						2P + 1LG
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Inquired by (Signature and Printed Name): Date / Time: 01/16/15 1340	Received by (Signature and Printed Name): Jean Claude Date / Time: 01/16/15 1340	5 DAY TAT Turn Around Time (TAT) <input type="checkbox"/> A < 24 Hrs or Same Day TAT <input type="checkbox"/> B = Next Workday <input type="checkbox"/> C = 2 Workdays <input type="checkbox"/> D = 3 Workdays <input type="checkbox"/> E = Routine 5-7 Workdays TAT starts at 8 AM the following day if sample received after 3:00 PM.
Inquired by (Signature and Printed Name): Date / Time:	Received by (Signature and Printed Name): Date / Time:	
Inquired by (Signature and Printed Name): Date / Time:	Received by (Signature and Printed Name): Date / Time:	
Preservatives: H = HCl N = HNO3 S = H2SO4 C = 4°C Z = Zn(Ac)2 O = NaOH T = Na2S2O5		Container Type: T = Tube V = VOA P = Pinl J = Jar B = Tedlar G = Glass M = Metal P = Plastic C = Can

1. Samples will be disposed in 45 days upon receipt and records will be destroyed in 5 years upon submission of final report.
 2. TAT is 5-7 business days, surcharges will apply for each analysis.
 3. Less than 24 hrs = 300% Next Day = 100% 2 Workdays = 50% 3 Workdays = 35% 4 Workdays = 20%
 4. 20% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharges applied on total project price.
 5. Trip Blanks and Equipment Blanks are billable samples.
 6. ASSET Laboratories is not responsible for samples collected using incorrect methodology.
 7. Terms are net 30 days.
 8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
 9. For subcontract analysis, TAT and Surcharges will vary.
 White = Laboratory Copy
 Yellow = Customer's Copy



ASSET Laboratories

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

www.asset-labs.com

TEL: 7023072659

FAX: 7023072691

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

AETL
2834 North Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX: (818) 845-8840
Acct #:

Field Sampler: James Dye

19-Jan-15

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA 420.1	SM 5540 C	SM4500-NH3C
N014406-001A / EFF-01-15	Wastewater	1/15/2015 12:35:00 PM	16OZP			1
N014406-001C / EFF-01-15	Wastewater	1/15/2015 12:35:00 PM	32OZP		1	
N014406-001I / EFF-01-15	Wastewater	1/15/2015 12:35:00 PM	32OZA	1		

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

Please use PO#: N14406A For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: 5day TAT

Please analyze for Ammonia, Phenols and Surfactants.

	Date/Time		Date/Time
Relinquished by: _____		Received by: _____	
Relinquished by: _____		Received by: _____	



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Page: 1 A

Ordered By

ASSET Laboratories
3151-3153 W Post Road
Las Vegas, NV 89118-

Project ID: N014406
Date Received 01/16/2015
Date Reported 01/20/2015

Telephone: (702)307-2659
Attention: Marlon Cartin

Job Number	Order Date	Client
75676	01/16/2015	ASSET

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 1 samples with the following specification on 01/16/2015.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
75676.01	EFF-01-15	01/15/2015	Aqueous	2
Method ^ Submethod	Req Date	Priority	TAT	Units
420.1	01/23/2015	2	Normal	mg/L
SM-4500-NH3-C	01/23/2015	2	Normal	mg/L
SM-5540C	01/23/2015	2	Normal	mg/L

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

Checked By: _____

Approved By: _____

Cyrus Razmara, Ph.D.
Laboratory Director



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ANALYTICAL RESULTS

Ordered By

ASSET Laboratories
 3151-3153 W Post Road
 Las Vegas, NV 89118-

Telephone: (702)307-2659

Attn: Marlon Cartin

Page: 2

Project ID: N014406

Project Name: N14406A

AETL Job Number	Submitted	Client
75676	01/16/2015	ASSET

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

QC Batch No: 011915-1

Our Lab I.D.		Method Blank	75676.01			
Client Sample I.D.			EFF-01-15			
Date Sampled			01/15/2015			
Date Prepared		01/19/2015	01/19/2015			
Preparation Method		420.1	420.1			
Date Analyzed		01/19/2015	01/19/2015			
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: 011915-1; Dup or Spiked Sample: 75676.01; LCS: Clean Water; QC Prepared: 01/19/2015; QC Analyzed: 01/19/2015;
 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	0.180	90.0	0.200	0.187	93.6	3.9	80-120	<15

QC Batch No: 011915-1; Dup or Spiked Sample: 75676.01; LCS: Clean Water; QC Prepared: 01/19/2015; QC Analyzed: 01/19/2015;
 Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Phenol	0.200	0.174	86.8	0.200	0.178	89.0	2.5	80-120	<20



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ANALYTICAL RESULTS

Ordered By

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 Las Vegas, NV 89118-

Telephone: (702)307-2659

Attn: Marlon Cartin

Page: 3

Project ID: N014406
 Project Name: N14406A

AETL Job Number	Submitted	Client
75676	01/16/2015	ASSET

Method: SM-4500-NH3-C, Ammonia by Nesslerization Method

QC Batch No: 011915-1

Our Lab I.D.		Method Blank	75676.01			
Client Sample I.D.			EFF-01-15			
Date Sampled			01/15/2015			
Date Prepared		01/19/2015	01/19/2015			
Preparation Method		SM4500NH3C	SM4500NH3C			
Date Analyzed		01/19/2015	01/19/2015			
Matrix		Aqueous	Aqueous			
Units		mg/L	mg/L			
Dilution Factor		1	1			
Analytes	MDL	PQL	Results	Results		
Ammonia as Nitrogen	0.05	0.10	ND	ND		

QUALITY CONTROL REPORT

QC Batch No: 011915-1; Dup or Spiked Sample: 75676.01; LCS: Clean Water; QC Prepared: 01/19/2015; QC Analyzed: 01/19/2015;

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
Ammonia as Nitrogen	0.00	0.500	0.491	98.2	0.500	0.488	97.6	<1	80-120	<15

QC Batch No: 011915-1; Dup or Spiked Sample: 75676.01; LCS: Clean Water; QC Prepared: 01/19/2015; QC Analyzed: 01/19/2015;

Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Ammonia as Nitrogen	0.500	0.488	97.6	0.500	0.483	96.6	1.0	80-120	<15



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ANALYTICAL RESULTS

Ordered By

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 Las Vegas, NV 89118-

Telephone: (702)307-2659

Attn: Marlon Cartin

Page: 4

Project ID: N014406

Project Name: N14406A

AETL Job Number	Submitted	Client
75676	01/16/2015	ASSET

Method: SM-5540C, Methylene Blue Active Substances (MBAS)

QC Batch No: 011615-1

Our Lab I.D.		Method Blank	75676.01			
Client Sample I.D.			EFF-01-15			
Date Sampled			01/15/2015			
Date Prepared		01/16/2015	01/16/2015			
Preparation Method		SM5540C	SM5540C			
Date Analyzed		01/16/2015	01/16/2015			
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: 011615-1; Dup or Spiked Sample: 75669.05; LCS: Clean Water; QC Prepared: 01/16/2015; QC Analyzed: 01/16/2015;

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	0.510	102	0.500	0.495	99.0	3.0	80-120	<15

QC Batch No: 011615-1; Dup or Spiked Sample: 75669.05; LCS: Clean Water; QC Prepared: 01/16/2015; QC Analyzed: 01/16/2015;

Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Surfactants (MBAS)	0.500	0.485	97.0	0.500	0.492	98.4	1.4	80-120	<15



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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.



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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

February 18, 2015

Dan Jablonski
CH2MHill
1000 Wilshire Blvd.
Los Angeles, CA 90017

CA-ELAP No.: 2676
NV Cert. No.: NV-00922

TEL:

FAX:

Workorder No.: N014651

RE: SFPP - Norwalk Site

Attention: Dan Jablonski

Enclosed are the results for sample(s) received on February 12, 2015 by ASSET Laboratories .
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,

Nancy Libucaw for

Glen Gesmundo
QA Manager

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in
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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Project: SFPP - Norwalk Site
Lab Order: N014651

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 Test:

Phenol was subcontracted to AETL - Burbank, CA .

Analytical Comments for EPA 200.8:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Copper on QC samples N014636-001B-MS and N014636-001B-MSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.



CLIENT: CH2MHill
Project: SFPP - Norwalk Site
Lab Order: N014651
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N014651-001A	EFF-02-10	Wastewater	2/10/2015 2:30:00 PM	2/12/2015	2/18/2015
N014651-001B	EFF-02-10	Wastewater	2/10/2015 2:30:00 PM	2/12/2015	2/18/2015
N014651-001C	EFF-02-10	Wastewater	2/10/2015 2:30:00 PM	2/12/2015	2/18/2015
N014651-001D	EFF-02-10	Wastewater	2/10/2015 2:30:00 PM	2/12/2015	2/18/2015
N014651-001E	EFF-02-10	Wastewater	2/10/2015 2:30:00 PM	2/12/2015	2/18/2015
N014651-001F	EFF-02-10	Wastewater	2/10/2015 2:30:00 PM	2/12/2015	2/18/2015
N014651-001G	EFF-02-10	Wastewater	2/10/2015 2:30:00 PM	2/12/2015	2/18/2015
N014651-001H	EFF-02-10	Wastewater	2/10/2015 2:30:00 PM	2/12/2015	2/18/2015
N014651-001I	EFF-02-10	Wastewater	2/10/2015 2:30:00 PM	2/12/2015	2/18/2015



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 18-Feb-15

CLIENT: CH2MHiil
Lab Order: N014651
Project: SFPP - Norwalk Site
Lab ID: N014651-001

Client Sample ID: EFF-02-10
Collection Date: 2/10/2015 2:30:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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TOTAL NON-FILTERABLE RESIDUE

SM2540D

RunID: WETCHEM_150212B	QC Batch: 49686				PrepDate: 2/12/2015		Analyst: LR
Suspended Solids (Residue, Non-Filterable)	ND	10	10		mg/L	1	2/12/2015 12:30 PM

SETTLABLE MATTER

SM2540F

RunID: WETCHEM_150212C	QC Batch: 49688				PrepDate: 2/12/2015		Analyst: QBM
Settleable Matter	ND	0.10	0.10		ml/L	1	2/12/2015

HEXANE EXTRACTABLE MATERIAL (HEM)

EPA 1664 _HEM

RunID: WETCHEM_150213A	QC Batch: 49696				PrepDate: 2/13/2015		Analyst: LR
Oil & Grease	ND	0.86	4.3		mg/L	1	2/13/2015 01:00 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_150212A	QC Batch: P15VW022				PrepDate:		Analyst: QBM
1,1-Dichloroethane	ND	0.054	0.50		ug/L	1	2/12/2015 11:51 AM
1,2-Dichloroethane	ND	0.044	0.50		ug/L	1	2/12/2015 11:51 AM
Benzene	ND	0.048	1.0		ug/L	1	2/12/2015 11:51 AM
Ethylbenzene	ND	0.036	1.0		ug/L	1	2/12/2015 11:51 AM
m,p-Xylene	ND	0.14	1.0		ug/L	1	2/12/2015 11:51 AM
MTBE	ND	0.098	1.0		ug/L	1	2/12/2015 11:51 AM
o-Xylene	ND	0.042	1.0		ug/L	1	2/12/2015 11:51 AM
Tert-Butanol	ND	0.40	5.0		ug/L	1	2/12/2015 11:51 AM
Toluene	ND	0.025	2.0		ug/L	1	2/12/2015 11:51 AM
Xylenes, Total	ND	1.5	2.0		ug/L	1	2/12/2015 11:51 AM
Surr: 1,2-Dichloroethane-d4	108	0	72-119		%REC	1	2/12/2015 11:51 AM
Surr: 4-Bromofluorobenzene	99.6	0	76-119		%REC	1	2/12/2015 11:51 AM
Surr: Dibromofluoromethane	109	0	85-115		%REC	1	2/12/2015 11:51 AM
Surr: Toluene-d8	102	0	81-120		%REC	1	2/12/2015 11:51 AM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID: GC3_150213A	QC Batch: 49689				PrepDate: 2/13/2015		Analyst: MDM
TPH-Diesel (C13-C22)	ND	15	25		ug/L	1	2/13/2015 01:39 PM
TPH-Oil (C23-C36)	ND	14	25		ug/L	1	2/13/2015 01:39 PM
Surr: Octacosane	75.1	0	26-152		%REC	1	2/13/2015 01:39 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



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ANALYTICAL RESULTS

Print Date: 18-Feb-15

CLIENT: CH2MHill
Lab Order: N014651
Project: SFPP - Norwalk Site
Lab ID: N014651-001

Client Sample ID: EFF-02-10
Collection Date: 2/10/2015 2:30:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID: GC3_150213A	QC Batch: 49689				PrepDate: 2/13/2015		Analyst: MDM
Surr: p-Terphenyl	75.0	0	57-132		%REC	1	2/13/2015 01:39 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_150212A	QC Batch: E15VW010				PrepDate:		Analyst: QBM
TPH-Gasoline (C4-C12)	ND	16	50		ug/L	1	2/12/2015 11:27 AM
Surr: Chlorobenzene - d5	113	0	74-138		%REC	1	2/12/2015 11:27 AM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 245.1

RunID: AA1_150213B	QC Batch: 49691				PrepDate: 2/13/2015		Analyst: CEI
Mercury	ND	0.018	0.050		µg/L	1	2/13/2015 03:48 PM

TOTAL METALS BY COLLISION/REACTION CELL ICPMS

EPA 200.8

RunID: ICP7_150212A	QC Batch: 49683				PrepDate: 2/12/2015		Analyst: CEI
Selenium	ND	0.069	0.50		µg/L	1	2/12/2015 04:05 PM

TOTAL METALS BY ICPMS

EPA 200.8

RunID: ICP7_150212A	QC Batch: R97994				PrepDate:		Analyst: CEI
Copper	ND	0.040	0.50		µg/L	1	2/12/2015 04:05 PM
Lead	ND	0.011	0.50		µg/L	1	2/12/2015 04:05 PM
Thallium	0.086	0.0080	0.50	J	µg/L	1	2/12/2015 04:05 PM
Zinc	1.2	0.23	10	J	µg/L	1	2/12/2015 04:05 PM

TOTAL TPH

EPA 3510C

EPA 8015B

RunID: GC3_150213A	QC Batch: 49689				PrepDate: 2/13/2015		Analyst: MDM
Total TPH	ND	22	50		ug/L	1	2/13/2015

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



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CLIENT: CH2MHill
Work Order: N014651
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: MB-49686	SampType: MBLK	TestCode: 160.2_2540D	Units: mg/L	Prep Date: 2/12/2015	RunNo: 97997						
Client ID: PBW	Batch ID: 49686	TestNo: SM2540D		Analysis Date: 2/12/2015	SeqNo: 1932985						
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-49686	SampType: LCS	TestCode: 160.2_2540D	Units: mg/L	Prep Date: 2/12/2015	RunNo: 97997						
Client ID: LCSW	Batch ID: 49686	TestNo: SM2540D		Analysis Date: 2/12/2015	SeqNo: 1932986						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter)	912.000	10	1000	0	91.2	80	120				

Sample ID: N014651-001E DUP	SampType: DUP	TestCode: 160.2_2540D	Units: mg/L	Prep Date: 2/12/2015	RunNo: 97997						
Client ID: ZZZZZ	Batch ID: 49686	TestNo: SM2540D		Analysis Date: 2/12/2015	SeqNo: 1932988						
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
 - J Analyte detected below quantitation limits
 - S Spike/Surrogate outside of limits due to matrix interference
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - DO Surrogate Diluted Out
 - H Holding times for preparation or analysis exceeded
 - R RPD outside accepted recovery limits
- Calculations are based on raw values



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CLIENT: CH2MHill
Work Order: N014651
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.5_2540F_W

Sample ID: MB-49688	SampType: MBLK	TestCode: 160.5_2540F_ Units: m/L	Prep Date: 2/12/2015	RunNo: 98066							
Client ID: PBW	Batch ID: 49688	TestNo: SM2540F	Analysis Date: 2/12/2015	SeqNo: 1936570							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Settleable Matter	ND	0.10									

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 |



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Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_DRC

Sample ID: MB-49683	SampType: MBLK	TestCode: 200.8_W_DR	Units: µg/L	Prep Date: 2/12/2015	RunNo: 97994						
Client ID: PBW	Batch ID: 49683	TestNo: EPA 200.8		Analysis Date: 2/12/2015	SeqNo: 1932739						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	ND	0.50									

Sample ID: LCS-49683	SampType: LCS	TestCode: 200.8_W_DR	Units: µg/L	Prep Date: 2/12/2015	RunNo: 97994						
Client ID: LCSW	Batch ID: 49683	TestNo: EPA 200.8		Analysis Date: 2/12/2015	SeqNo: 1932740						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	9.323	0.50	10.00	0	93.2	85	115				

Sample ID: N014636-001B-MS	SampType: MS	TestCode: 200.8_W_DR	Units: µg/L	Prep Date: 2/12/2015	RunNo: 97994						
Client ID: ZZZZZZ	Batch ID: 49683	TestNo: EPA 200.8		Analysis Date: 2/12/2015	SeqNo: 1932744						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	11.332	0.50	10.00	2.834	85.0	75	125				

Sample ID: N014636-001B-MSD	SampType: MSD	TestCode: 200.8_W_DR	Units: µg/L	Prep Date: 2/12/2015	RunNo: 97994						
Client ID: ZZZZZZ	Batch ID: 49683	TestNo: EPA 200.8		Analysis Date: 2/12/2015	SeqNo: 1932745						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	11.310	0.50	10.00	2.834	84.8	75	125	11.33	0.189	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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Work Order: N014651
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: MB-49683		SampType: MBLK		TestCode: 200.8_W_SFPP Units: µg/L				Prep Date:		RunNo: 97994		
Client ID: PBW		Batch ID: R97994		TestNo: EPA 200.8				Analysis Date: 2/12/2015		SeqNo: 1932852		
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-49683		SampType: LCS		TestCode: 200.8_W_SFPP Units: µg/L				Prep Date:		RunNo: 97994		
Client ID: LCSW		Batch ID: R97994		TestNo: EPA 200.8				Analysis Date: 2/12/2015		SeqNo: 1932853		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Copper	9.570	0.50	10.00	0	95.7	85	115					
Lead	10.944	0.50	10.00	0	109	85	115					
Thallium	10.984	0.50	10.00	0	110	85	115					
Zinc	95.276	10	100.0	0	95.3	85	115					

Sample ID: N014636-001B-MS		SampType: MS		TestCode: 200.8_W_SFPP Units: µg/L				Prep Date:		RunNo: 97994		
Client ID: ZZZZZ		Batch ID: R97994		TestNo: EPA 200.8				Analysis Date: 2/12/2015		SeqNo: 1932857		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Copper	3.448	0.50	10.00	0	34.5	75	125				S	
Lead	10.767	0.50	10.00	0	108	75	125					
Thallium	11.253	0.50	10.00	0.06467	112	75	125					
Zinc	76.772	10	100.0	0	76.8	75	125					

Sample ID: N014636-001B-MSD		SampType: MSD		TestCode: 200.8_W_SFPP Units: µg/L				Prep Date:		RunNo: 97994		
Client ID: ZZZZZ		Batch ID: R97994		TestNo: EPA 200.8				Analysis Date: 2/12/2015		SeqNo: 1932858		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Copper	3.450	0.50	10.00	0	34.5	75	125	3.448	0.0581	20	S	
Lead	10.812	0.50	10.00	0	108	75	125	10.77	0.417	20		

Qualifiers:

- | | | |
|--|--|--|
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ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: N014636-001B-MSD		SampType: MSD		TestCode: 200.8_W_SFPP			Units: µg/L		Prep Date:		RunNo: 97994	
Client ID: ZZZZZ		Batch ID: R97994		TestNo: EPA 200.8			Analysis Date: 2/12/2015		SeqNo: 1932858			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Thallium	11.269	0.50	10.00	0.06467	112	75	125	11.25	0.134	20		
Zinc	77.886	10	100.0	0	77.9	75	125	76.77	1.44	20		

Qualifiers:

- | | | |
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ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W_LL

Sample ID: MB-49691	SampType: MBLK	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 2/13/2015	RunNo: 98017						
Client ID: PBW	Batch ID: 49691	TestNo: EPA 245.1	Analysis Date: 2/13/2015	SeqNo: 1933557							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.050									

Sample ID: LCS-49691	SampType: LCS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 2/13/2015	RunNo: 98017						
Client ID: LCSW	Batch ID: 49691	TestNo: EPA 245.1	Analysis Date: 2/13/2015	SeqNo: 1933559							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.511	0.050	2.500	0	100	85	115				

Sample ID: N014651-001G-MS	SampType: MS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 2/13/2015	RunNo: 98017						
Client ID: ZZZZZ	Batch ID: 49691	TestNo: EPA 245.1	Analysis Date: 2/13/2015	SeqNo: 1933560							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.881	0.050	2.500	0	115	75	125				

Sample ID: N014651-001G-MSD	SampType: MSD	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 2/13/2015	RunNo: 98017						
Client ID: ZZZZZ	Batch ID: 49691	TestNo: EPA 245.1	Analysis Date: 2/13/2015	SeqNo: 1933561							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.903	0.050	2.500	0	116	75	125	2.881	0.750	20	

Qualifiers:

- | | | |
|--|--|--|
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Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-49689	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 2/13/2015	RunNo: 98012						
Client ID: PBW	Batch ID: 49689	TestNo: EPA 8015B EPA 3510C		Analysis Date: 2/13/2015	SeqNo: 1933429						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	25									
TPH-Oil (C23-C36)	ND	25									
Surr: Octacosane	80.804		80.00		101	26	152				
Surr: p-Terphenyl	78.773		80.00		98.5	57	132				

Qualifiers:

- | | | |
|--|--|--|
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ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

Sample ID: MB-49689	SampType: MBLK	TestCode: 8015_W_SFP	Units: ug/L	Prep Date:	RunNo: 98012						
Client ID: PBW	Batch ID: 49689	TestNo: EPA 8015B	EPA 3510C	Analysis Date: 2/13/2015	SeqNo: 1936579						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	ND	50									

Qualifiers:

- | | | |
|--|--|--|
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ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID: E150212LCS	SampType: LCS	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 97983						
Client ID: LCSW	Batch ID: E15VW010	TestNo: EPA 8015B		Analysis Date: 2/12/2015	SeqNo: 1931602						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	960.000	50	1000	0	96.0	67	136				
Surr: Chlorobenzene - d5	56385.000		50000		113	74	138				

Sample ID: E150212MB1	SampType: MBLK	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 97983						
Client ID: PBW	Batch ID: E15VW010	TestNo: EPA 8015B		Analysis Date: 2/12/2015	SeqNo: 1931603						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	ND	50									
Surr: Chlorobenzene - d5	59785.000		50000		120	74	138				

Sample ID: N014651-001BMS	SampType: MS	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 97983						
Client ID: ZZZZZ	Batch ID: E15VW010	TestNo: EPA 8015B		Analysis Date: 2/12/2015	SeqNo: 1931605						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	909.000	50	1000	0	90.9	67	136				
Surr: Chlorobenzene - d5	55388.000		50000		111	74	138				

Sample ID: N014651-001BMSD	SampType: MSD	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 97983						
Client ID: ZZZZZ	Batch ID: E15VW010	TestNo: EPA 8015B		Analysis Date: 2/12/2015	SeqNo: 1931606						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	905.000	50	1000	0	90.5	67	136	909.0	0.441	30	
Surr: Chlorobenzene - d5	54657.000		50000		109	74	138		0	0	

Qualifiers:

- | | | |
|--|--|--|
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ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P150212LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 97979						
Client ID: LCSW	Batch ID: P15VW022	TestNo: EPA 8260B		Analysis Date: 2/12/2015	SeqNo: 1931315						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	20.380	0.50	20.00	0	102	69	133				
1,2-Dichloroethane	20.410	0.50	20.00	0	102	69	132				
Benzene	20.270	1.0	20.00	0	101	81	122				
Ethylbenzene	20.220	1.0	20.00	0	101	73	127				
m,p-Xylene	41.780	1.0	40.00	0	104	76	128				
MTBE	20.310	1.0	20.00	0	102	65	123				
o-Xylene	20.900	1.0	20.00	0	104	80	121				
Tert-Butanol	119.450	5.0	100.0	0	119	70	130				
Toluene	20.740	2.0	20.00	0	104	77	122				
Xylenes, Total	62.680	2.0	60.00	0	104	75	125				
Surr: 1,2-Dichloroethane-d4	26.230		25.00		105	72	119				
Surr: 4-Bromofluorobenzene	26.330		25.00		105	76	119				
Surr: Dibromofluoromethane	25.660		25.00		103	85	115				
Surr: Toluene-d8	25.740		25.00		103	81	120				

Sample ID: P150212MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 97979						
Client ID: PBW	Batch ID: P15VW022	TestNo: EPA 8260B		Analysis Date: 2/12/2015	SeqNo: 1931317						
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	26.220		25.00		105	72	119				

Qualifiers:

- | | | |
|--|--|--|
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ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P150212MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 97979						
Client ID: PBW	Batch ID: P15VW022	TestNo: EPA 8260B	Analysis Date: 2/12/2015	SeqNo: 1931317							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	24.760		25.00		99.0	76	119				
Surr: Dibromofluoromethane	27.110		25.00		108	85	115				
Surr: Toluene-d8	25.500		25.00		102	81	120				

Sample ID: N014651-001CMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 97979						
Client ID: ZZZZZ	Batch ID: P15VW022	TestNo: EPA 8260B	Analysis Date: 2/12/2015	SeqNo: 1931319							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	20.980	0.50	20.00	0	105	69	133				
1,2-Dichloroethane	20.240	0.50	20.00	0	101	69	132				
Benzene	20.240	1.0	20.00	0	101	81	122				
Ethylbenzene	19.580	1.0	20.00	0	97.9	73	127				
m,p-Xylene	40.300	1.0	40.00	0	101	76	128				
MTBE	19.500	1.0	20.00	0	97.5	65	123				
o-Xylene	20.080	1.0	20.00	0	100	80	121				
Tert-Butanol	109.160	5.0	100.0	0	109	70	130				
Toluene	20.060	2.0	20.00	0	100	77	122				
Xylenes, Total	60.380	2.0	60.00	0	101	75	125				
Surr: 1,2-Dichloroethane-d4	26.180		25.00		105	72	119				
Surr: 4-Bromofluorobenzene	25.990		25.00		104	76	119				
Surr: Dibromofluoromethane	26.050		25.00		104	85	115				
Surr: Toluene-d8	25.800		25.00		103	81	120				

Sample ID: N014651-001CMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 97979						
Client ID: ZZZZZ	Batch ID: P15VW022	TestNo: EPA 8260B	Analysis Date: 2/12/2015	SeqNo: 1931320							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	21.630	0.50	20.00	0	108	69	133	20.98	3.05	20	
1,2-Dichloroethane	20.410	0.50	20.00	0	102	69	132	20.24	0.836	20	
Benzene	20.710	1.0	20.00	0	104	81	122	20.24	2.30	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 |



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
 P: 562.219.7435 F: 562.219.7436

NEVADA
 3151 W. Post Rd., Las Vegas, NV 89118
 P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N014651
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N014651-001CMSD	SampType: MSD	TestCode: 8260_WP_SF Units: ug/L				Prep Date:			RunNo: 97979		
Client ID: ZZZZZZ	Batch ID: P15VW022	TestNo: EPA 8260B				Analysis Date: 2/12/2015			SeqNo: 1931320		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	20.110	1.0	20.00	0	101	73	127	19.58	2.67	20	
m,p-Xylene	41.110	1.0	40.00	0	103	76	128	40.30	1.99	20	
MTBE	20.540	1.0	20.00	0	103	65	123	19.50	5.19	20	
o-Xylene	20.840	1.0	20.00	0	104	80	121	20.08	3.71	20	
Tert-Butanol	117.230	5.0	100.0	0	117	70	130	109.2	7.13	20	
Toluene	20.550	2.0	20.00	0	103	77	122	20.06	2.41	20	
Xylenes, Total	61.950	2.0	60.00	0	103	75	125	60.38	2.57	20	
Surr: 1,2-Dichloroethane-d4	26.460		25.00		106	72	119		0		
Surr: 4-Bromofluorobenzene	26.910		25.00		108	76	119		0		
Surr: Dibromofluoromethane	26.310		25.00		105	85	115		0		
Surr: Toluene-d8	25.610		25.00		102	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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"Serving Clients with Passion and Professionalism"

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: 2/10/15
 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 <input type="checkbox"/> <input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>									
TEL: 714-560-4802	FAX: 714-560-4601	E-MAIL: james_dye@kindermorgan.com		REQUESTED ANALYSIS													
TURNAROUND TIME <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input checked="" type="checkbox"/> 48HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS																	
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL ___/___/___																	
SPECIAL INSTRUCTIONS Report to D. Jablonski/CH2M HILL, cc: KMPE Direct Bill KMPE/SFPP - Steve Defibaugh-ref. AFE# 81195 "J" flags required/Use lowest possible detection limit - all methods.																	
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING		MAT- RIX	NO. OF CONT.	Oil & Grease (1664)	TPH-g, toh-d, and TPH-oil (8015B)	Settleable Solids (2540F)	Total Suspended Solids (2540D)	Phenol (420.1)	BTEX, 1,1-DCA, 1,2-DCA(8260B)	MTBE and TBA, (8260B) 48HR TAT	Cu, Pb, Ti, and Zn (200.8)	Se (200.8) 48HR TAT ; Hg (245.1)48 HR TA	Cr VI (7199)	Comments
			DATE	TIME													
	EFF- 02 - 10	Effluent	2/10/15	1430	WW	17	X	X	X	X	X	X	X	X	X	X	NO14651-1
																	Monthly
Relinquished by: (Signature)						Received by: (Signature)						Date: <u>2/10/15</u>		Time: <u>5:15PM</u>			
Relinquished by: (Signature)						Received by: (Signature)						Date: <u>2/11/15</u>		Time: <u>0940</u>			
Relinquished by: (Signature) _____						Received by: (Signature) _____						Date: _____		Time: _____			

Revised: 01/31/11

-0.8°C IR2

ASSET Laboratories

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: 2/12/2015 Workorder: N014651
 Rep sample Temp (Deg C): -0.8 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 7587 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 <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input type="checkbox"/>
Yes <input type="checkbox"/> | No <input type="checkbox"/>
No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>
NA <input checked="" type="checkbox"/> |

Comments:

Checklist Completed By: HG  2/16/2015

Reviewed By:  02/17/15



ASSET Laboratories

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

www.atl-labs.com

TEL: 7023072659

FAX: 7023072691

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

AETL
2834 North Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX: (818) 845-8840
Acct #:

Field Sampler: James Dye

16-Feb-15

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA 420.1		
N014651-001F / EFF-02-10	Wastewater	2/10/2015 2:30:00 PM	32OZA	1		

General Comments: Please email sample receipt acknowledgement to the PM.
 Please use PO#:N14651A For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by:Normal TAT
 Please analyze for Phenolics.

Relinquished by: <u><i>[Signature]</i></u>	Date/Time: <u>2/16/2015</u>	Received by: _____	Date/Time: _____
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____

SampleControl.LV@assetlaboratories.com

From: Marlon B. Cartin [marlon@assetlaboratories.com]
Sent: Friday, February 13, 2015 5:39 PM
To: Vidal.Cortes@ch2m.com
Cc: 'Sample Control'; 'Glen Gesmundo'
Subject: Cr+6

Hi Vidal,

We already got the 7199 sample from Norwalk site and we will receive it here at the lab tomorrow morning. This will be the replacement sample for the one that expires because we failed to pick-up the samples on Tuesday (2/10). We will run this ASAP and report at the same time with the samples from Tuesday.

Thanks,

Marlon Cartin

Project Manager

California: 11060 Artesia Blvd., Ste. C, Cerritos, CA 90703 | P: 562.219.7435 | F: 562.219.7436

Nevada: 3151 W. Post Road, Las Vegas, NV 89118 | P: 702.307.2659 Ext. 410 | F: 702.307.2691 | M: 702.882.3289

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ASSET Laboratories

WORK ORDER Summary

13-Feb-15

WorkOrder: N014651

Client ID: CH2HI03

Project: SFPP - Norwalk Site

QC Level: RTNE

Date Received: 2/12/2015

Comments: Report to D. Jablonski/CH2M HILL, cc:KMEP

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N014651-001A	EFF-02-10	2/10/2015 2:30:00 PM	2/19/2015	Wastewater		Oil and Grease Sample Prep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/19/2015		EPA 1664 _HEM	Hexane Extractable Material (HEM)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N014651-001B			2/19/2015		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N014651-001C			2/16/2015		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N014651-001D			2/19/2015		SM2540F	SETTLABLE MATTER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N014651-001E			2/19/2015		SM2540D	TOTAL NON-FILTERABLE RESIDUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/19/2015			Total Suspended Solids Prep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N014651-001F			2/19/2015		EPA 420.1	PHENOLICS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB
N014651-001G			2/16/2015			AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/16/2015		EPA 200.8	TOTAL METALS BY COLLISION/REACTION CELL ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/16/2015		EPA 200.8	TOTAL METALS BY ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/16/2015		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/16/2015			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N014651-001H			2/19/2015		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/19/2015		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N014651-001I			2/19/2015		EPA 7199	Hexavalent Chromium by IC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N014651-002A	FOLDER		2/16/2015		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB



800-322-5555 www.gso.com

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11060 ARTESIA BLVD., STE. C
CERRITOS, CA 90703

Tracking #: 526927587

PDS



Ship To

ATL INC
MARLON CARTIN
3151 W. POST RD.,
LAS VEGAS, NV 89118

LVS
LAS VEGAS

COD: \$0.00

Weight: 0 lb(s)

Reference:

N89103A

Delivery Instructions:



Signature Type: REQUIRED

34056632

Print Date: 2/11/2015 6:04 PM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer. Securely attach this label to your package, do not cover the barcode.



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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

ASSET Laboratories
3151-3153 W Post Road
Las Vegas, NV 89118-

Number of Pages 2
Date Received 02/12/2015
Date Reported 02/17/2015

Telephone: (702)307-2659
Attention: Marlon Cartin

Job Number	Order Date	Client
75960	02/12/2015	ASSET

Project ID: N014651
Project Name: PO# 14651A
Site: SFPP-Norwalk Site

Enclosed please find results of analyses of 1 waste 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: _____

Cyrus Razmara, Ph.D.
Laboratory Director

75960

CHAIN OF CUSTODY RECORD

Contact us:
 Nevada: 3151 W. Post Road, Las Vegas, NV 89118
 P: 702.907.2659 F: 702.9072691
 California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90708
 P: 562.219.7435 F: 562.219.7438
 www.assetlaboratories.com

Client: Asset Laboratories Report to: _____ Page 1 of 1

Address: _____ Company: _____ BHI to: _____

Address: _____ Email: _____ Address: _____ EDD Requirement

Phone: _____ Fax: _____ Address: _____ Email to: _____ PO# _____

Submitted By: Molky Brar Title: _____ Phone: _____ Fax: _____

Signature: _____ Date: _____ Sampled By: _____

I hereby authorize ASSET Labs to perform the tests indicated below:
 Project Name: SFPP-Norwalk site
 Project Number: _____

I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
 Signature: _____ Date: _____

Item No.	Laboratory Work Order No.	Sample ID/Location	Date	Time	Matrix			Water	Solid	Other	Analyses Requested	Turn Around Time	No. of containers	Container Type	PRESERVATION	Courier	Tracking No.	Remarks
					Ground	Sediment	Potable											
1	75960-01	EFF-02-10	2/10/15	14:30	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Inquisition by (Signature and Printed Name): _____ Date/Time: 02/12/15/220

Received by (Signature and Printed Name): Jean Claude Date/Time: 02/12/15/220

Turn Around Time (TAT)
 A < 24 Hrs or Same Day TAT
 B = Next Workday
 C = 2 Workdays
 D = 3 Workdays
 E = Routine 5-7 Workdays
 TAT Starts at 8 AM the following day if samples received after 3:00 PM.

Special Instruction: _____

Preservatives:
 H = HCl N = HNO3 S = H2SO4 C = 4°C
 Z = Zn(Ac)2 O = NaOH T = Na2S2O8
 Others/Specify: _____

Container Type:
 T = Tube V = VOA P = Pint
 J = Jar B = Tedlar G = Glass
 M = Metal P = Plastic C = Can

White = Laboratory Copy
 Yellow = Customer's Copy



ASSET Laboratories

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

www.atl-labs.com

TEL: 7023072659

FAX: 7023072691

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

AETL
2834 North Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX: (818) 845-8840
Acct #:

Field Sampler: James Dye

16-Feb-15

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA 420.1		
N014651-001F / EFF-02-10	Wastewater	2/10/2015 2:30:00 PM	32OZA	1		

General Comments: Please email sample receipt acknowledgement to the PM.
 Please use PO#:N14651A For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by:Normal TAT
 Please analyze for Phenolics.

Relinquished by: <u><i>[Signature]</i></u>	Date/Time: <u>2/16/2015</u>	Received by: _____	Date/Time: _____
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____



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Page: 1 A

Ordered By

ASSET Laboratories
3151-3153 W Post Road
Las Vegas, NV 89118-

Project ID: N014651
Date Received 02/12/2015
Date Reported 02/17/2015

Telephone: (702)307-2659
Attention: Marlon Cartin

Job Number	Order Date	Client
75960	02/12/2015	ASSET

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 1 samples with the following specification on 02/12/2015.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers	
75960.01	N014651-001F	02/10/2015	Aqueous	1	
Method ^ Submethod		Req Date	Priority	TAT	Units
420.1		02/19/2015	2	Normal	mg/L

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

Checked By: _____

Approved By: _____

Cyrus Razmara, Ph.D.
Laboratory Director



American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

Ordered By

ASSET Laboratories
 3151-3153 W Post Road
 Las Vegas, NV 89118-

Site

SFPP-Norwalk Site

Telephone: (702)307-2659

Attn: Marlon Cartin

Page: 2

Project ID: N014651
 Project Name: PO# 14651A

AETL Job Number	Submitted	Client
75960	02/12/2015	ASSET

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

QC Batch No: 021215-1

Our Lab I.D.		Method Blank	75960.01			
Client Sample I.D.			N014651-001 F			
Date Sampled			02/10/2015			
Date Prepared		02/12/2015	02/12/2015			
Preparation Method		420.1	420.1			
Date Analyzed		02/12/2015	02/12/2015			
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: 021215-1; Dup or Spiked Sample: 75960.01; LCS: Clean Water; QC Prepared: 02/12/2015; QC Analyzed: 02/12/2015;
 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	0.405	81.0	0.500	0.418	83.6	3.2	80-120	<15

QC Batch No: 021215-1; Dup or Spiked Sample: 75960.01; LCS: Clean Water; QC Prepared: 02/12/2015; QC Analyzed: 02/12/2015;
 Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Phenol	0.500	0.452	90.4	0.500	0.443	88.6	2.0	80-120	<20



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.



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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

February 18, 2015

Dan Jablonski
CH2MHill
1000 Wilshire Blvd.
Los Angeles, CA 90017

CA-ELAP No.: 2676
NV Cert. No.: NV-00922

TEL:

FAX:

Workorder No.: N014679

RE: SFPP-Norwalk Site

Attention: Dan Jablonski

Enclosed are the results for sample(s) received on February 14, 2015 by ASSET Laboratories .
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,

Nancy Libucaw for

Glen Gesmundo
QA Manager

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3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Project: SFPP-Norwalk Site
Lab Order: N014679

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Sample was 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.

Sample was 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.



CLIENT: CH2MHill
Project: SFPP-Norwalk Site
Lab Order: N014679
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N014679-001A	EFF-02-13	Wastewater	2/13/2015 11:25:00 AM	2/14/2015	2/18/2015



CLIENT: CH2MHill
Lab Order: N014679
Project: SFPP-Norwalk Site
Lab ID: N014679-001

Client Sample ID: EFF-02-13
Collection Date: 2/13/2015 11:25:00 AM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

HEXAVALENT CHROMIUM BY IC

EPA 7199

RunID: **IC6_150214A** QC Batch: **R98024** PrepDate: Analyst: **RB**
Hexavalent Chromium 0.56 0.016 0.20 µg/L 1 2/14/2015 10:10 AM

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: CH2MHill
Work Order: N014679
Project: SFPP-Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 7199_WPGE

Sample ID: MB-R98024	SampType: MBLK	TestCode: 7199_WPGE	Units: µg/L	Prep Date:	RunNo: 98024						
Client ID: PBW	Batch ID: R98024	TestNo: EPA 7199		Analysis Date: 2/14/2015	SeqNo: 1933802						
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-R98024	SampType: LCS	TestCode: 7199_WPGE	Units: µg/L	Prep Date:	RunNo: 98024						
Client ID: LCSW	Batch ID: R98024	TestNo: EPA 7199		Analysis Date: 2/14/2015	SeqNo: 1933803						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

5.055 0.20 5.000 0 101 90 110

Sample ID: N014605-007A-MS	SampType: MS	TestCode: 7199_WPGE	Units: µg/L	Prep Date:	RunNo: 98024						
Client ID: ZZZZZ	Batch ID: R98024	TestNo: EPA 7199		Analysis Date: 2/14/2015	SeqNo: 1933806						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

63.109 1.0 25.00 37.54 102 85 115

Sample ID: N014605-007A-MSD	SampType: MSD	TestCode: 7199_WPGE	Units: µg/L	Prep Date:	RunNo: 98024						
Client ID: ZZZZZ	Batch ID: R98024	TestNo: EPA 7199		Analysis Date: 2/14/2015	SeqNo: 1933807						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

63.172 1.0 25.00 37.54 103 85 115 63.11 0.101 20

Qualifiers:

- B Analyte detected in the associated Method Blank
 - J Analyte detected below quantitation limits
 - S Spike/Surrogate outside of limits due to matrix interference
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - DO Surrogate Diluted Out
 - H Holding times for preparation or analysis exceeded
 - R RPD outside accepted recovery limits
- Calculations are based on raw values



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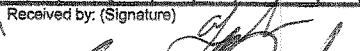


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Advanced Technology Laboratories
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 Las Vegas, NV 89118
 Tel: 702-307-2659 Fax: 702-307-2691
 Marlon Cartin [marlon@atl-labs.com]

CHAIN OF CUSTODY RECORD

DATE: 2/13/15
 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 <input type="checkbox"/> <input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>											
TEL: 714-560-4802	FAX: 714-560-4601	E-MAIL: James_dye@kindermorgan.com																	
TURNAROUND TIME <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input checked="" type="checkbox"/> 48HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS				REQUESTED ANALYSIS															
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> 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.																			
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING		MAT- RIX	NO. OF CONT.	Oil & Grease (1664)	TPH-g, toh-d, and TPH-oil (8016E)	Settleable Solids (2540F)	Total Suspended Solids (2540D)	Phenol (420.1)	BTEX, 1,1-DCA, 1,2-DCA(8260B)	MTBE and TBA, (8260B) 48HR TAT	Cu, Pb, Ti, and Zn (200.8)	Se (200.8) 48HR TAT : Hg (245.1) 48 HR TA	Cr VI (7199)	Comments		
			DATE	TIME															
	EFF- 02-13	Effluent	2/13/15	1125	WW													X	No/4679-1
																			Monthly

Relinquished by: (Signature) 	Date: <u>2/13/15</u>	Time: <u>3:45PM</u>	Received by: (Signature) 	Date: <u>2/13/15</u>	Time: <u>3:45PM</u>
Relinquished by: (Signature) 	Date: <u>2/13/15</u>	Time: <u>4:03PM</u>	Received by: (Signature) 	Date: <u>2/14/15</u>	Time: <u>0810</u>
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Revised: 01/31/11

1.0°C ICE IR#1 W/ TEMP BLANK

ASSET Laboratories

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: 2/14/2015 Workorder: N014679
 Rep sample Temp (Deg C): 1.0 IR Gun ID: 1
 Temp Blank: Yes No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 2524 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 <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments:

Checklist Completed By: MBC For: [Signature] 2/16/2015

Reviewed By: [Signature] 02/17/15

ASSET Laboratories

WORK ORDER Summary

16-Feb-15

WorkOrder: N014679

Client ID: CH2HI03

Project: SFPP-Norwalk Site

QC Level: RTNE

Date Received: 2/14/2015

Comments: Report to D. Jablonski/CH2M HILL, cc:KMEP

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N014679-001A	EFF-02-13	2/13/2015 11:25:00 AM	2/23/2015	Wastewater	EPA 7199	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N014679-002A	FOLDER		2/23/2015		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB



800-322-5555 www.gso.com

Ship From

ASSET LABORATORIES
MOLKY BRAR
11060 ARTESIA BLVD., STE. C
CERRITOS, CA 90703

Tracking #: 526952524

SDS



Ship To

ATL INC
MARLON CARTIN
3151 W. POST RD.,
LAS VEGAS, NV 89118

LVS
LAS VEGAS

COD: \$0.00

Weight: 0 lb(s)

Reference:

N89103A

Delivery Instructions:

HOLD FOR PICK UP

Signature Type: Required



34158583

Print Date: 2/13/2015 4:22 PM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer. Securely attach this label to your package, do not cover the barcode.

March 11, 2015

Dan Jablonski
CH2MHill
1000 Wilshire Blvd.
Los Angeles, CA 90017

CA-ELAP No.: 2676
NV Cert. No.: NV-00922

TEL:

FAX:

Workorder No.: N014853

RE: SFPP - Norwalk Site

Attention: Dan Jablonski

Enclosed are the results for sample(s) received on March 04, 2015 by ASSET Laboratories . 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,



Glen Gesmundo
QA Manager

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CLIENT: CH2MHill
Project: SFPP - Norwalk Site
Lab Order: N014853

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 Test:

Phenol was subcontracted to AETL - Burbank, CA .

Analytical Comments for EPA 8015B DRO:

RPD for Matrix Spike (MS)/Matrix Spike Duplicate (MSD) is outside criteria on QC samples N014853-001H-MS and N014853-001H-MSD possibly due to matrix interference; however, the analytical batch was validated by the Laboratory Control Sample (LCS).



CLIENT: CH2MHill
Project: SFPP - Norwalk Site
Lab Order: N014853
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N014853-001A	EFF-03-03	Wastewater	3/3/2015 2:15:00 PM	3/4/2015	3/11/2015
N014853-001B	EFF-03-03	Wastewater	3/3/2015 2:15:00 PM	3/4/2015	3/11/2015
N014853-001C	EFF-03-03	Wastewater	3/3/2015 2:15:00 PM	3/4/2015	3/11/2015
N014853-001D	EFF-03-03	Wastewater	3/3/2015 2:15:00 PM	3/4/2015	3/11/2015
N014853-001E	EFF-03-03	Wastewater	3/3/2015 2:15:00 PM	3/4/2015	3/11/2015
N014853-001F	EFF-03-03	Wastewater	3/3/2015 2:15:00 PM	3/4/2015	3/11/2015
N014853-001G	EFF-03-03	Wastewater	3/3/2015 2:15:00 PM	3/4/2015	3/11/2015
N014853-001H	EFF-03-03	Wastewater	3/3/2015 2:15:00 PM	3/4/2015	3/11/2015
N014853-001I	EFF-03-03	Wastewater	3/3/2015 2:15:00 PM	3/4/2015	3/11/2015



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 11-Mar-15

CLIENT: CH2MHiil
Lab Order: N014853
Project: SFPP - Norwalk Site
Lab ID: N014853-001

Client Sample ID: EFF-03-03
Collection Date: 3/3/2015 2:15:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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TOTAL NON-FILTERABLE RESIDUE

SM2540D

RunID: WETCHEM_150304D	QC Batch: 49830				PrepDate: 3/4/2015		Analyst: LR
Suspended Solids (Residue, Non-Filterable)	ND	10	10		mg/L	1	3/4/2015 08:31 AM

SETTLABLE MATTER

SM2540F

RunID: WETCHEM_150304K	QC Batch: 49893				PrepDate: 3/4/2015		Analyst: QBM
Settleable Matter	ND	0.10	0.10		ml/L	1	3/4/2015

HEXANE EXTRACTABLE MATERIAL (HEM)

EPA 1664 _HEM

RunID: WETCHEM_150309A	QC Batch: 49869				PrepDate: 3/9/2015		Analyst: LR
Oil & Grease	ND	0.88	4.4		mg/L	1	3/9/2015 09:30 AM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_150305A	QC Batch: P15VW034				PrepDate:		Analyst: QBM
1,1-Dichloroethane	ND	0.054	0.50		ug/L	1	3/5/2015 12:25 PM
1,2-Dichloroethane	ND	0.044	0.50		ug/L	1	3/5/2015 12:25 PM
Benzene	ND	0.048	1.0		ug/L	1	3/5/2015 12:25 PM
Ethylbenzene	ND	0.036	1.0		ug/L	1	3/5/2015 12:25 PM
m,p-Xylene	ND	0.14	1.0		ug/L	1	3/5/2015 12:25 PM
MTBE	ND	0.098	1.0		ug/L	1	3/5/2015 12:25 PM
o-Xylene	ND	0.042	1.0		ug/L	1	3/5/2015 12:25 PM
Tert-Butanol	ND	0.40	5.0		ug/L	1	3/5/2015 12:25 PM
Toluene	ND	0.025	2.0		ug/L	1	3/5/2015 12:25 PM
Xylenes, Total	ND	1.5	2.0		ug/L	1	3/5/2015 12:25 PM
Surr: 1,2-Dichloroethane-d4	91.0	0	72-119		%REC	1	3/5/2015 12:25 PM
Surr: 4-Bromofluorobenzene	98.7	0	76-119		%REC	1	3/5/2015 12:25 PM
Surr: Dibromofluoromethane	94.4	0	85-115		%REC	1	3/5/2015 12:25 PM
Surr: Toluene-d8	99.0	0	81-120		%REC	1	3/5/2015 12:25 PM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID: GC1_150309A	QC Batch: 49866				PrepDate: 3/9/2015		Analyst: MDM
TPH-Diesel (C13-C22)	ND	15	25		ug/L	1	3/9/2015 08:50 PM
TPH-Oil (C23-C36)	ND	14	25		ug/L	1	3/9/2015 08:50 PM
Surr: Octacosane	94.3	0	26-152		%REC	1	3/9/2015 08:50 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



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ANALYTICAL RESULTS

Print Date: 11-Mar-15

CLIENT: CH2MHill
Lab Order: N014853
Project: SFPP - Norwalk Site
Lab ID: N014853-001

Client Sample ID: EFF-03-03
Collection Date: 3/3/2015 2:15:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID: GC1_150309A	QC Batch: 49866				PrepDate: 3/9/2015		Analyst: MDM
Surr: p-Terphenyl	85.9	0	57-132		%REC	1	3/9/2015 08:50 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_150304A	QC Batch: E15VW015				PrepDate:		Analyst: QBM
TPH-Gasoline (C4-C12)	ND	16	50		ug/L	1	3/4/2015 12:10 PM
Surr: Chlorobenzene - d5	115	0	74-138		%REC	1	3/4/2015 12:10 PM

HEXAVALENT CHROMIUM BY IC

EPA 7199

RunID: IC6_150304A	QC Batch: R99304				PrepDate:		Analyst: RB
Hexavalent Chromium	1.1	0.016	0.20		µg/L	1	3/4/2015 10:50 AM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 245.1

RunID: AA1_150305B	QC Batch: 49848				PrepDate: 3/5/2015		Analyst: CEI
Mercury	ND	0.018	0.050		µg/L	1	3/5/2015 05:49 PM

TOTAL METALS BY COLLISION/REACTION CELL ICPMS

EPA 200.8

RunID: ICP7_150304A	QC Batch: 49832				PrepDate: 3/4/2015		Analyst: CEI
Selenium	ND	0.069	0.50		µg/L	1	3/4/2015 01:41 PM

TOTAL METALS BY ICPMS

EPA 200.8

RunID: ICP7_150304A	QC Batch: 49832				PrepDate: 3/4/2015		Analyst: CEI
Copper	ND	0.040	0.50		µg/L	1	3/4/2015 01:41 PM
Lead	ND	0.011	0.50		µg/L	1	3/4/2015 01:41 PM
Thallium	0.067	0.0080	0.50	J	µg/L	1	3/4/2015 01:41 PM
Zinc	1.1	0.23	10	J	µg/L	1	3/4/2015 01:41 PM

TOTAL TPH

EPA 3510C

EPA 8015B

RunID: GC1_150309A	QC Batch: 49866				PrepDate: 3/9/2015		Analyst: MDM
Total TPH	ND	22	51		ug/L	1	3/9/2015 08:50 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



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 P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N014853
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: MB-49830	SampType: MBLK	TestCode: 160.2_2540D	Units: mg/L	Prep Date: 3/4/2015	RunNo: 99288						
Client ID: PBW	Batch ID: 49830	TestNo: SM2540D	Analysis Date: 3/4/2015	SeqNo: 1946086							
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-49830	SampType: LCS	TestCode: 160.2_2540D	Units: mg/L	Prep Date: 3/4/2015	RunNo: 99288						
Client ID: LCSW	Batch ID: 49830	TestNo: SM2540D	Analysis Date: 3/4/2015	SeqNo: 1946087							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter)	921.000	10	1000	0	92.1	80	120				

Sample ID: N014853-001E DUP	SampType: DUP	TestCode: 160.2_2540D	Units: mg/L	Prep Date: 3/4/2015	RunNo: 99288						
Client ID: ZZZZZ	Batch ID: 49830	TestNo: SM2540D	Analysis Date: 3/4/2015	SeqNo: 1946090							
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
 - J Analyte detected below quantitation limits
 - S Spike/Surrogate outside of limits due to matrix interference
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - DO Surrogate Diluted Out
 - H Holding times for preparation or analysis exceeded
 - R RPD outside accepted recovery limits
- Calculations are based on raw values



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CLIENT: CH2MHill
Work Order: N014853
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.5_2540F_W

Sample ID: MB-49893	SampType: MBLK	TestCode: 160.5_2540F_ Units: m/L	Prep Date: 3/4/2015	RunNo: 99383							
Client ID: PBW	Batch ID: 49893	TestNo: SM2540F	Analysis Date: 3/4/2015	SeqNo: 1950107							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Settleable Matter	ND	0.10									

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 |



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Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 1664_HEM_W

Sample ID: MB-49869	SampType: MBLK	TestCode: 1664_HEM_W Units: mg/L	Prep Date: 3/9/2015	RunNo: 99345							
Client ID: PBW	Batch ID: 49869	TestNo: EPA 1664_H	Analysis Date: 3/9/2015	SeqNo: 1948006							
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-49869	SampType: LCS	TestCode: 1664_HEM_W Units: mg/L	Prep Date: 3/9/2015	RunNo: 99345							
Client ID: LCSW	Batch ID: 49869	TestNo: EPA 1664_H	Analysis Date: 3/9/2015	SeqNo: 1948007							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease

34.600

4.0

40.00

0

86.5

78

114

Sample ID: N014853-001A MS	SampType: MS	TestCode: 1664_HEM_W Units: mg/L	Prep Date: 3/9/2015	RunNo: 99345							
Client ID: ZZZZZ	Batch ID: 49869	TestNo: EPA 1664_H	Analysis Date: 3/9/2015	SeqNo: 1948009							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease

44.111

4.4

40.00

0

110

78

114

Sample ID: N014853-001A MSD	SampType: MSD	TestCode: 1664_HEM_W Units: mg/L	Prep Date: 3/9/2015	RunNo: 99345							
Client ID: ZZZZZ	Batch ID: 49869	TestNo: EPA 1664_H	Analysis Date: 3/9/2015	SeqNo: 1948010							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease

37.555

4.4

40.00

0

93.9

78

114

44.11

16.1

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 |



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CLIENT: CH2MHill
Work Order: N014853
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_DRC

Sample ID: MB-49832	SampType: MBLK	TestCode: 200.8_W_DR	Units: µg/L	Prep Date: 3/4/2015	RunNo: 99293						
Client ID: PBW	Batch ID: 49832	TestNo: EPA 200.8		Analysis Date: 3/4/2015	SeqNo: 1946244						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Selenium ND 0.50

Sample ID: LCS-49832	SampType: LCS	TestCode: 200.8_W_DR	Units: µg/L	Prep Date: 3/4/2015	RunNo: 99293						
Client ID: LCSW	Batch ID: 49832	TestNo: EPA 200.8		Analysis Date: 3/4/2015	SeqNo: 1946245						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Selenium 8.886 0.50 10.00 0 88.9 85 115

Sample ID: N014853-001G-MS	SampType: MS	TestCode: 200.8_W_DR	Units: µg/L	Prep Date: 3/4/2015	RunNo: 99293						
Client ID: ZZZZZ	Batch ID: 49832	TestNo: EPA 200.8		Analysis Date: 3/4/2015	SeqNo: 1946249						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Selenium 8.689 0.50 10.00 0 86.9 75 125

Sample ID: N014853-001G-MSD	SampType: MSD	TestCode: 200.8_W_DR	Units: µg/L	Prep Date: 3/4/2015	RunNo: 99293						
Client ID: ZZZZZ	Batch ID: 49832	TestNo: EPA 200.8		Analysis Date: 3/4/2015	SeqNo: 1946250						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Selenium 8.426 0.50 10.00 0 84.3 75 125 8.689 3.08 20

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



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Work Order: N014853
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: MB-49832		SampType: MBLK		TestCode: 200.8_W_SFPP Units: µg/L			Prep Date: 3/4/2015		RunNo: 99293		
Client ID: PBW		Batch ID: 49832		TestNo: EPA 200.8			Analysis Date: 3/4/2015		SeqNo: 1946213		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.050	0.50									J
Lead	ND	0.50									
Thallium	0.016	0.50									J
Zinc	ND	10									

Sample ID: LCS-49832		SampType: LCS		TestCode: 200.8_W_SFPP Units: µg/L			Prep Date: 3/4/2015		RunNo: 99293		
Client ID: LCSW		Batch ID: 49832		TestNo: EPA 200.8			Analysis Date: 3/4/2015		SeqNo: 1946214		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	9.176	0.50	10.00	0	91.8	85	115				
Lead	9.638	0.50	10.00	0	96.4	85	115				
Thallium	9.145	0.50	10.00	0	91.5	85	115				
Zinc	89.987	10	100.0	0	90.0	85	115				

Sample ID: N014853-001G-MS		SampType: MS		TestCode: 200.8_W_SFPP Units: µg/L			Prep Date: 3/4/2015		RunNo: 99293		
Client ID: ZZZZZ		Batch ID: 49832		TestNo: EPA 200.8			Analysis Date: 3/4/2015		SeqNo: 1946218		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	7.802	0.50	10.00	0	78.0	75	125				
Lead	10.446	0.50	10.00	0	104	75	125				
Thallium	10.619	0.50	10.00	0.06660	106	75	125				
Zinc	82.561	10	100.0	1.086	81.5	75	125				

Sample ID: N014853-001G-MSD		SampType: MSD		TestCode: 200.8_W_SFPP Units: µg/L			Prep Date: 3/4/2015		RunNo: 99293		
Client ID: ZZZZZ		Batch ID: 49832		TestNo: EPA 200.8			Analysis Date: 3/4/2015		SeqNo: 1946219		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	7.816	0.50	10.00	0	78.2	75	125	7.802	0.185	20	
Lead	10.386	0.50	10.00	0	104	75	125	10.45	0.580	20	

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 |



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Work Order: N014853
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: N014853-001G-MSD		SampType: MSD		TestCode: 200.8_W_SFPP Units: µg/L			Prep Date: 3/4/2015		RunNo: 99293		
Client ID: ZZZZZZ		Batch ID: 49832		TestNo: EPA 200.8			Analysis Date: 3/4/2015		SeqNo: 1946219		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	10.592	0.50	10.00	0.06660	105	75	125	10.62	0.257	20	
Zinc	82.149	10	100.0	1.086	81.1	75	125	82.56	0.499	20	

Qualifiers:

- | | | |
|--|--|--|
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ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W_LL

Sample ID: MB-49848	SampType: MBLK	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 3/5/2015	RunNo: 99316						
Client ID: PBW	Batch ID: 49848	TestNo: EPA 245.1		Analysis Date: 3/5/2015	SeqNo: 1946881						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.050

Sample ID: LCS-49848	SampType: LCS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 3/5/2015	RunNo: 99316						
Client ID: LCSW	Batch ID: 49848	TestNo: EPA 245.1		Analysis Date: 3/5/2015	SeqNo: 1946882						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.596 0.050 2.500 0 104 85 115

Sample ID: N014853-001G-MS	SampType: MS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 3/5/2015	RunNo: 99316						
Client ID: ZZZZZZ	Batch ID: 49848	TestNo: EPA 245.1		Analysis Date: 3/5/2015	SeqNo: 1946884						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.524 0.050 2.500 0 101 75 125

Sample ID: N014853-001G-MSD	SampType: MSD	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 3/5/2015	RunNo: 99316						
Client ID: ZZZZZZ	Batch ID: 49848	TestNo: EPA 245.1		Analysis Date: 3/5/2015	SeqNo: 1946885						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.527 0.050 2.500 0 101 75 125 2.524 0.122 20

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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ANALYTICAL QC SUMMARY REPORT

TestCode: 7199_WPGE

Sample ID: MB-R99304	SampType: MBLK	TestCode: 7199_WPGE	Units: µg/L	Prep Date:	RunNo: 99304						
Client ID: PBW	Batch ID: R99304	TestNo: EPA 7199		Analysis Date: 3/4/2015	SeqNo: 1946695						
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-R99304	SampType: LCS	TestCode: 7199_WPGE	Units: µg/L	Prep Date:	RunNo: 99304						
Client ID: LCSW	Batch ID: R99304	TestNo: EPA 7199		Analysis Date: 3/4/2015	SeqNo: 1946696						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 4.859 0.20 5.000 0 97.2 90 110

Sample ID: N014853-001I-DUP	SampType: DUP	TestCode: 7199_WPGE	Units: µg/L	Prep Date:	RunNo: 99304						
Client ID: ZZZZZ	Batch ID: R99304	TestNo: EPA 7199		Analysis Date: 3/4/2015	SeqNo: 1946698						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 1.134 0.20 1.117 1.51 20

Sample ID: N014860-001A-MS	SampType: MS	TestCode: 7199_WPGE	Units: µg/L	Prep Date:	RunNo: 99304						
Client ID: ZZZZZ	Batch ID: R99304	TestNo: EPA 7199		Analysis Date: 3/4/2015	SeqNo: 1946706						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 990.720 40 200.0 783.7 104 85 115

Sample ID: N014860-001A-MSD	SampType: MSD	TestCode: 7199_WPGE	Units: µg/L	Prep Date:	RunNo: 99304						
Client ID: ZZZZZ	Batch ID: R99304	TestNo: EPA 7199		Analysis Date: 3/4/2015	SeqNo: 1946707						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 979.380 40 200.0 783.7 97.9 85 115 990.7 1.15 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: CH2MHill
Work Order: N014853
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-49866	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 3/9/2015	RunNo: 99352						
Client ID: PBW	Batch ID: 49866	TestNo: EPA 8015B EPA 3510C		Analysis Date: 3/9/2015	SeqNo: 1948456						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	25									
TPH-Oil (C23-C36)	ND	25									
Surr: Octacosane	75.802		80.00		94.8	26	152				
Surr: p-Terphenyl	68.926		80.00		86.2	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 |



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ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

Sample ID: MB-49866	SampType: MBLK	TestCode: 8015_W_SFP	Units: ug/L	Prep Date: 3/9/2015	RunNo: 99352						
Client ID: PBW	Batch ID: 49866	TestNo: EPA 8015B	EPA 3510C	Analysis Date: 3/9/2015	SeqNo: 1948459						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	0	50									

Qualifiers:

- | | | |
|--|--|--|
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ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID: E150304LCS	SampType: LCS	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 99297						
Client ID: LCSW	Batch ID: E15VW015	TestNo: EPA 8015B		Analysis Date: 3/4/2015	SeqNo: 1946313						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1006.000	50	1000	0	101	67	136				
Surr: Chlorobenzene - d5	50360.000		50000		101	74	138				

Sample ID: E150304MB1	SampType: MBLK	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 99297						
Client ID: PBW	Batch ID: E15VW015	TestNo: EPA 8015B		Analysis Date: 3/4/2015	SeqNo: 1946314						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	ND	50									
Surr: Chlorobenzene - d5	53843.000		50000		108	74	138				

Sample ID: N014853-001BMS	SampType: MS	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 99297						
Client ID: ZZZZZ	Batch ID: E15VW015	TestNo: EPA 8015B		Analysis Date: 3/4/2015	SeqNo: 1946318						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1038.000	50	1000	0	104	67	136				
Surr: Chlorobenzene - d5	52504.000		50000		105	74	138				

Sample ID: N014853-001BMSD	SampType: MSD	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 99297						
Client ID: ZZZZZ	Batch ID: E15VW015	TestNo: EPA 8015B		Analysis Date: 3/4/2015	SeqNo: 1946319						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1046.000	50	1000	0	105	67	136	1038	0.768	30	
Surr: Chlorobenzene - d5	53064.000		50000		106	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 |



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NEVADA
 3151 W. Post Rd., Las Vegas, NV 89118
 P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N014853
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P150305LCS		SampType: LCS		TestCode: 8260_WP_SF		Units: ug/L		Prep Date:		RunNo: 99311		
Client ID: LCSW		Batch ID: P15VW034		TestNo: EPA 8260B				Analysis Date: 3/5/2015		SeqNo: 1946802		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1-Dichloroethane	17.840	0.50	20.00	0	89.2	69	133					
1,2-Dichloroethane	18.310	0.50	20.00	0	91.6	69	132					
Benzene	19.560	1.0	20.00	0	97.8	81	122					
Ethylbenzene	19.720	1.0	20.00	0	98.6	73	127					
m,p-Xylene	41.500	1.0	40.00	0	104	76	128					
MTBE	18.180	1.0	20.00	0	90.9	65	123					
o-Xylene	21.290	1.0	20.00	0	106	80	121					
Tert-Butanol	79.020	5.0	100.0	0	79.0	70	130					
Toluene	20.160	2.0	20.00	0	101	77	122					
Xylenes, Total	62.790	2.0	60.00	0	105	75	125					
Surr: 1,2-Dichloroethane-d4	22.030		25.00		88.1	72	119					
Surr: 4-Bromofluorobenzene	26.040		25.00		104	76	119					
Surr: Dibromofluoromethane	23.170		25.00		92.7	85	115					
Surr: Toluene-d8	24.930		25.00		99.7	81	120					

Sample ID: N014853-001CMS		SampType: MS		TestCode: 8260_WP_SF		Units: ug/L		Prep Date:		RunNo: 99311		
Client ID: ZZZZZZ		Batch ID: P15VW034		TestNo: EPA 8260B				Analysis Date: 3/5/2015		SeqNo: 1946803		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1-Dichloroethane	17.740	0.50	20.00	0	88.7	69	133					
1,2-Dichloroethane	18.580	0.50	20.00	0	92.9	69	132					
Benzene	19.440	1.0	20.00	0	97.2	81	122					
Ethylbenzene	19.480	1.0	20.00	0	97.4	73	127					
m,p-Xylene	40.790	1.0	40.00	0	102	76	128					
MTBE	17.280	1.0	20.00	0	86.4	65	123					
o-Xylene	20.740	1.0	20.00	0	104	80	121					
Tert-Butanol	70.950	5.0	100.0	0	71.0	70	130					
Toluene	20.220	2.0	20.00	0	101	77	122					
Xylenes, Total	61.530	2.0	60.00	0	103	75	125					
Surr: 1,2-Dichloroethane-d4	21.740		25.00		87.0	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 |



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 P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N014853
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N014853-001CMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 99311						
Client ID: ZZZZZ	Batch ID: P15VW034	TestNo: EPA 8260B	Analysis Date: 3/5/2015	SeqNo: 1946803							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	25.630		25.00		103	76	119				
Surr: Dibromofluoromethane	23.020		25.00		92.1	85	115				
Surr: Toluene-d8	25.170		25.00		101	81	120				

Sample ID: N014853-001CMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 99311						
Client ID: ZZZZZ	Batch ID: P15VW034	TestNo: EPA 8260B	Analysis Date: 3/5/2015	SeqNo: 1946804							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	17.710	0.50	20.00	0	88.6	69	133	17.74	0.169	20	
1,2-Dichloroethane	18.880	0.50	20.00	0	94.4	69	132	18.58	1.60	20	
Benzene	19.770	1.0	20.00	0	98.8	81	122	19.44	1.68	20	
Ethylbenzene	20.130	1.0	20.00	0	101	73	127	19.48	3.28	20	
m,p-Xylene	41.840	1.0	40.00	0	105	76	128	40.79	2.54	20	
MTBE	18.340	1.0	20.00	0	91.7	65	123	17.28	5.95	20	
o-Xylene	21.720	1.0	20.00	0	109	80	121	20.74	4.62	20	
Tert-Butanol	84.280	5.0	100.0	0	84.3	70	130	70.95	17.2	20	
Toluene	20.420	2.0	20.00	0	102	77	122	20.22	0.984	20	
Xylenes, Total	63.560	2.0	60.00	0	106	75	125	61.53	3.25	20	
Surr: 1,2-Dichloroethane-d4	21.970		25.00		87.9	72	119		0		
Surr: 4-Bromofluorobenzene	26.450		25.00		106	76	119		0		
Surr: Dibromofluoromethane	23.400		25.00		93.6	85	115		0		
Surr: Toluene-d8	25.570		25.00		102	81	120		0		

Sample ID: P150305MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 99311						
Client ID: PBW	Batch ID: P15VW034	TestNo: EPA 8260B	Analysis Date: 3/5/2015	SeqNo: 1946805							
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 |



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NEVADA
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 P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N014853
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P150305MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 99311						
Client ID: PBW	Batch ID: P15VW034	TestNo: EPA 8260B		Analysis Date: 3/5/2015	SeqNo: 1946805						
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	22.650		25.00		90.6	72	119				
Surr: 4-Bromofluorobenzene	25.190		25.00		101	76	119				
Surr: Dibromofluoromethane	23.990		25.00		96.0	85	115				
Surr: Toluene-d8	25.160		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 |
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ASSET Laboratories

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

www.atl-labs.com

TEL: 7023072659

FAX: 7023072691

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

AETL
2834 North Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX: (818) 845-8840
Acct #:

Field Sampler: James Dye

06-Mar-15

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA 420.1		
N014853-001F / EFF-03-03	Wastewater	3/3/2015 2:15:00 PM	32OZA	1		

General Comments: Please email sample receipt acknowledgement to the PM.
 Please use PO#:N14853A For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by:Normal TAT
 Please analyze for Phenolics.

Relinquished by: <u><i>[Signature]</i></u>	Date/Time: <u>3/6/2015</u>	Received by: _____	Date/Time: _____
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____

ASSET Laboratories

WORK ORDER Summary

04-Mar-15

WorkOrder: N014853

Client ID: CH2HI03

Project: SFPP - Norwalk Site

QC Level: RTNE

Date Received: 3/4/2015

Comments: Report to D. Jablonski/CH2M HILL, cc:KMEP

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N014853-001A	EFF-03-03	3/3/2015 2:15:00 PM	3/11/2015	Wastewater		Oil and Grease Sample Prep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			3/11/2015		EPA 1664_HEM	Hexane Extractable Material (HEM)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N014853-001B			3/11/2015		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N014853-001C			3/5/2015		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N014853-001D			3/11/2015		SM2540F	SETTLEABLE MATTER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			3/11/2015			Setteable Matter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N014853-001E			3/11/2015		SM2540D	TOTAL NON-FILTERABLE RESIDUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			3/11/2015			Total Suspended Solids Prep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N014853-001F			3/11/2015		EPA 420.1	PHENOLICS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB
N014853-001G			3/5/2015			AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			3/5/2015		EPA 200.8	TOTAL METALS BY COLLISION/REACTION CELL ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			3/5/2015		EPA 200.8	TOTAL METALS BY ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			3/5/2015		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			3/5/2015			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N014853-001H			3/11/2015		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			3/11/2015		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			3/11/2015		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N014853-001I			3/11/2015		EPA 7199	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N014853-002A	FOLDER		3/5/2015		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB



800-322-5555 www.gso.com

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MOLKY BRAR
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CERRITOS, CA 90703

Tracking #: 527126433

CPS



Ship To
ATL INC
MARLON CARTIN
3151 W. POST RD.,
LAS VEGAS, NV 89118

LVS
LAS VEGAS

COD: \$0.00
Weight: 0 lb(s)
Reference:

N89103A

Delivery Instructions:
HOLD FOR PICK UP
Signature Type: REQUIRED



34826635

Print Date: 3/3/2015 4:44 PM

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Ordered By

ASSET Laboratories
3151-3153 W Post Road
Las Vegas, NV 89118-

Number of Pages 2
Date Received 03/04/2015
Date Reported 03/10/2015

Telephone: (702)307-2659
Attention: Marlon Cartin

Job Number	Order Date	Client
76173	03/04/2015	ASSET

Project Name: SFPP-Norwalk Site

Enclosed please find results of analyses of 1 waste 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: _____



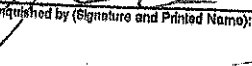
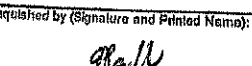
Cyrus Razmara, Ph.D.
Laboratory Director

CHAIN OF CUSTODY RECORD

Contact us:
 Nevada: 3151 W. Post Road, Las Vegas, NV 89118
 P: 702.307.2659 F: 702.307.2691
 California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
 P: 562.219.7435 F: 562.219.7436
 www.assetlaboratories.com

Client: **Asset Laboratories** Report to: _____ Bill to: _____
 Address: _____ Company: _____ Address: _____
 Address: _____ Email: _____
 Phone: _____ Fax: _____ Address: _____ Email to: _____ PO# _____
 Submitted By: **Molky Brar** Signature: _____ Date: _____
 Title: _____ Phone: _____ Fax: _____
 Signature: _____ Date: _____
 I hereby authorize ASSET Labs to perform the tests indicated below:
 Project Name: **SFPP-Norwalk site** Signature: _____ Date: _____
 Project Number: _____

Item No.	Laboratory Work Order No.	Sample ID/Location	Date	Time	Matrix			Water	Solid	Others	Analyses Requested	Turn Around Time	No. of containers	Container Type	PRESERVATION	Remarks
					Ground	Bedrock	Potable									
1	76173.01	EFF-03-03 Effluent	3/3/15	1415	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						14 Amber
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

Dispatched by (Signature and Printed Name):  Date / Time: 3/4/15 11:50 AM	Received by (Signature and Printed Name):  Date / Time: 3/4/15 11:50	Turn Around Time (TAT) <input type="checkbox"/> A < 24 Hrs or Same Day TAT <input type="checkbox"/> B = Next Workday <input type="checkbox"/> C = 2 Workdays <input type="checkbox"/> D = 3 Workdays <input checked="" type="checkbox"/> E = Routine 5-7 Workdays TAT Starts at 9 AM the following day if samples received after 3:00 PM.	Special Instruction:
Dispatched by (Signature and Printed Name):  Date / Time: 3/4/15 1348	Received by (Signature and Printed Name): Sean Claude Date / Time: 03/04/15 1345		
Dispatched by (Signature and Printed Name):  Date / Time: 3/4/15 1348	Received by (Signature and Printed Name): Sean Claude Date / Time: 03/04/15 1345		

H = HCl N = HNO₃ S = H₂SO₄ C = 4°C Y = Tube V = VGA P = Pint
 Z = Zn(AC)₂ O = NaOH T = Na₂S₂O₃
 J = Jar B = Tedlar G = Glass
 M = Metal P = Plastic C = Can

White = Laboratory Copy Yellow = Customer's Copy

1. Samples will be disposed in 45 days upon receipt and records will be destroyed in 5 years upon submission of final report.
 2. Turn Around Time (TAT) is 5-7 business days, surcharges will apply for rush analysis.
 3. Less than 24 Hrs = 200% Next Day = 100% 2 Workdays = 50% 3 Workdays = 35% 4 Workdays = 20%
 4. Some EDD formats will be an additional 5% of the total project price.
 5. 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharges applied on total project price.
 6. Trip Blanks and Equipment Blanks are billable sample.
 7. ASSET Laboratories is not responsible for samples collected using incorrect methodology.
 8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
 9. For subcontract analysis, TAT and Surcharges will vary.



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Page: 1 A

Ordered By

ASSET Laboratories
3151-3153 W Post Road
Las Vegas, NV 89118-

Project ID: None
Date Received 03/04/2015
Date Reported 03/10/2015

Telephone: (702)307-2659
Attention: Marlon Cartin

Job Number	Order Date	Client
76173	03/04/2015	ASSET

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 1 samples with the following specification on 03/04/2015.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers	
76173.01	EFF-03-03 Effluent	03/03/2015	Aqueous	1	
Method ^ Submethod		Req Date	Priority	TAT	Units
420.1		03/11/2015	2	Normal	mg/L

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

Checked By: _____

Approved By: _____

Cyrus Razmara, Ph.D.
Laboratory Director



American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

Ordered By

ASSET Laboratories
 3151-3153 W Post Road
 Las Vegas, NV 89118-

Telephone: (702)307-2659

Attn: Marlon Cartin

Page: 2

Project Name: SFPP-Norwalk Site

AETL Job Number	Submitted	Client
76173	03/04/2015	ASSET

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

QC Batch No: 030415-1

Our Lab I.D.		Method Blank	76173.01			
Client Sample I.D.			EFF-03-03 Effluent			
Date Sampled			03/03/2015			
Date Prepared		03/04/2015	03/04/2015			
Preparation Method		420.1	420.1			
Date Analyzed		03/04/2015	03/04/2015			
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: 030415-1; Dup or Spiked Sample: 76143.01; LCS: Clean Water; QC Prepared: 03/04/2015; QC Analyzed: 03/04/2015;
 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	0.432	86.4	0.500	0.445	89.0	3.0	80-120	<15

QC Batch No: 030415-1; Dup or Spiked Sample: 76143.01; LCS: Clean Water; QC Prepared: 03/04/2015; QC Analyzed: 03/04/2015;
 Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Phenol	0.500	0.444	88.8	0.500	0.432	86.4	2.7	80-120	<20	



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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.



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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

Appendix B

Waste Manifests

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number <i>CAT050013962</i>	2. Page 1 of <i>1</i>	3. Emergency Response Phone <i>8004971913</i>		4. Manifest Tracking Number 008691975 JJK				
		5. Generator's Name and Mailing Address <i>SFPF LP - NORWALK STATION 1100 TOWN AND COUNTRY ROAD ORANGE, CA 92668</i>					Generator's Site Address (if different than mailing address) <i>15306 NORWALK BLVD NORWALK, CA 90651</i>			
6. Transporter 1 Company Name <i>PATRIOT ENVIRONMENTAL SERVICES</i>		U.S. EPA ID Number <i>CAT-053506794</i>								
7. Transporter 2 Company Name		U.S. EPA ID Number								
8. Designated Facility Name and Site Address <i>DEMENNO KENDOON 3000 N ALAMEDA ST COMPTON, CA90222</i>					U.S. EPA ID Number <i>CAT050013962</i>					
Facility's Phone: <i>310.537.7100</i>										
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		1. <i>NON-RCRA HAZARDOUS WASTE LIQUID (OILY WATER)</i>			No.	Type				
		2.					<i>1,700</i>		<i>223</i>	
		3.								
		4.								
14. Special Handling Instructions and Additional Information <i>WEAR PROPER PPE AT ALL TIMES. PROFILE # 367706 BILL TO: SFPF, LP</i>										
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 <i>JAMES DYK</i>					Signature <i>[Signature]</i>			Month	Day	Year
								<i>2</i>	<i>3</i>	<i>15</i>
TRANSPORTER INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
	17. Transporter Acknowledgment of Receipt of Materials									
	Transporter 1 Printed/Typed Name <i>Felix Perez</i>					Signature <i>[Signature]</i>			Month	Day
								<i>02</i>	<i>03</i>	<i>15</i>
Transporter 2 Printed/Typed Name					Signature			Month	Day	Year
DESIGNATED FACILITY	18. Discrepancy									
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
	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

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number <i>CHT00033102</i>	2. Page 1 of <i>1</i>	3. Emergency Response Phone <i>603 624 7134</i>	4. Manifest Tracking Number 009299943 JJK
---	--	--------------------------	--	---

5. Generator's Name and Mailing Address
*SEPPLE - NORWALK STATION
 1100 TILLY COUNTRY RD
 NORWALK, CT 06457*
 Generator's Site Address (if different than mailing address)
*15306 NORWALK BLVD
 NORWALK, CT 06457*

Generator's Phone: *(714) 560-8887 ATTN: KENNETH H.* U.S. EPA ID Number
 6. Transporter 1 Company Name: *PATRIOT ENVIRONMENTAL SERVICES* *CAH002300174*

7. Transporter 2 Company Name: _____ U.S. EPA ID Number: _____

8. Designated Facility Name and Site Address
*DEMENTRI KEBBORN
 200 N. ALAMEDA ST.
 COMPTON CA 90222 (714) 537 7100*
 Facility's Phone: _____ U.S. EPA ID Number: *CHT00033102*

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	<i>1. NA. 3072, RR. HAZARDOUS LIQUID (WATER BENZENE) 1, P011</i>	001	TT	2200	/l	1311	D001 D001
	2.						
	3.						
	4.						

14. Special Handling Instructions and Additional Information
102. profile
ALWAYS WEAR PROPER PPE WHEN HANDLING
CALL THE SEPPLE ATTN: STAFF OF FIBERGLASS

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/Offoror's Printed/Typed Name: *JAMES DYK* Signature: _____ Month: *3* Day: *18* Year: *15*

16. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: *FELIX PEREZ* Signature: _____ Month: *3* Day: *18* Year: *15*
 Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

18. Discrepancy
 18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: _____ U.S. EPA ID Number: _____

18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number: _____
 Facility's Phone: _____ Month: _____ Day: _____ Year: _____
 18c. Signature of Alternate Facility (or Generator) _____

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: _____

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 001	3. Emergency Response Phone	4. Waste Tracking Number NH2-032415KMNW	
	5. Generator's Name and Mailing Address SFPP, LP 1100 TOWN & COUNTRY RD ORANGE, CA 92688 Generator's Phone: 714-560-4400		Generator's Site Address (if different than mailing address) NORWALK TANK FARM 15306 NORWALK BLVD NORWALK, CA 90850		
6. Transporter 1 Company Name PROMINENT SYSTEMS, INC				U.S. EPA ID Number	
7. Transporter 2 Company Name				U.S. EPA ID Number	
8. Designated Facility Name and Site Address CALIFORNIA CARBON CO. 2825 E. GRANT STREET WILMINGTON, CA 90744 Facility's Phone: 582-436-1962			U.S. EPA ID Number		
9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
	No.	Type			
1. NON HAZARDOUS SPENT CARBON	2	BA	2000	P	
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information APP# 10-097-268-B LIQ NORWALK TANK FARM					
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 JAMES DYE			Signature		Month Day Year 3 24 15
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Troy Sney			Signature		Month Day Year 3 24 15
Transporter 2 Printed/Typed Name			Signature		Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator)			U.S. EPA ID Number		
Facility's Phone:					
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			Signature		Month Day Year