



SFPP, L.P.
Operating Partnership

May 12, 2017

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 2017
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 2017 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 12th day of May 2017.
at 9:32 a.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)



CH2M
6 Hutton Centre Drive
Suite 700
Santa Ana, CA 92707
O +1 714 429 2000
F +1 714 429 2050
www.ch2m.com

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

May 8, 2017

Subject: Effluent Monitoring Report, January 1 to March 31, 2017 (First Quarter 2017)
SFPP Norwalk Pump Station, 15306 Norwalk Boulevard, Norwalk, California
(NPDES No. CA0063509, CI No. 7497, Order No. R4-2016-0309)

Dear Mr. Defibaugh,

This report has been prepared by CH2M HILL Engineers, Inc. (CH2M), on behalf of SFPP, L.P. (SFPP), an operating partnership of Kinder Morgan Energy Partners, L.P. (Kinder Morgan), 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; Figure 1).

SFPP performed certain operations, maintenance, and monitoring tasks on the product recovery and GWE systems. SFPP retained CH2M 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, 2017.

Remediation Systems

SFPP operates remediation systems consisting of soil vapor extraction (SVE), total fluids extraction (TFE; extraction of free product and/or groundwater using a top-loading pump), GWE (extraction of groundwater using a bottom-loading pump), and treatment of extracted soil vapors and groundwater to address the south-central and southeastern areas of the site. Biosparging is also employed in the south-central area to enhance natural attenuation of hydrocarbon constituents.

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.

The objectives of the remediation systems are to contain and control the migration of hydrocarbon constituents in groundwater and soil vapor and to remove hydrocarbon mass from soil and groundwater. The remediation system includes the following wells:

- South-Central Area
 - 20 TFE wells
 - 24 onsite and 6 offsite SVE wells (most collocated with TFE wells)
 - 2 horizontal SVE wells
 - 1 horizontal biosparge well

- Southeastern Area (24-inch Block Valve Area)
 - 4 TFE wells (GMW-O-15, GMW-O-18, GMW-36, and GMW-SF-9)
 - 3 SVE wells (collocated with TFE wells)
 - 1 GWE well (GMW-SF-10)

The remediation system layout is shown on Figure 2. A brief description of each system is provided below.

SVE System

SVE is performed using a blower to remove soil vapors from the south-central and southeastern areas. 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 regenerative thermal oxidizer (RTO) where VOCs are converted to carbon dioxide and water prior to being discharged to the atmosphere. Operation of the GWTS and SVE system is conducted in accordance with Permits to Construct (Application Numbers [Nos.] 569588 and 567723, respectively; ID 110835) issued by the South Coast Air Quality Management District (SCAQMD).

Groundwater Treatment System

The main GWTS handles free product and groundwater recovered from the south-central and southeastern parts of the site. Free product and groundwater recovered by pneumatically operated top-loading total fluid pumps and bottom-loading groundwater 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). The treated groundwater then passes through polishing LGAC units prior to discharge to a storm drain that leads to Coyote Creek. Discharge to Coyote Creek is performed in accordance with a NPDES permit (Permit No. CA0063509; Order No. R4-2016-0309). Order No. R4-2016-0309 was adopted on September 7, 2016, and became effective on November 1, 2016.

Horizontal Biosparge System

SFPP recently completed installation of a horizontal biosparge system in the south-central area of the site. The biosparge well is constructed of 4-inch-diameter Schedule 80 polyvinyl chloride (PVC) casing and screen completed to a vertical depth of approximately 45 feet below ground surface. The lateral distance of the screen interval is 600 feet; the screen interval is situated below the central portion of the south-central area hydrocarbon plume. Further details regarding the construction of the biosparge well are documented in the report titled, *Horizontal Biosparge Well and Soil Vapor Monitoring Probe Completion Report, SFPP Norwalk Pump Station, 15306 Norwalk Boulevard, Norwalk, California* (prepared by CH2M, dated February 8, 2015).

The compressor used to deliver ambient air to the biosparge well has a maximum design rate of approximately 500 standard cubic feet per minute (scfm). SFPP's SVE system has an interlock that ensures the biosparge system cannot operate unless the SVE system is operating. Operation of the SVE system reduces the potential for off-gassing of VOCs during biosparge operations. Pilot testing of the biosparge system commenced in early January 2016 and continued through October 2016. Soil vapor data collected as part of the pilot testing have been submitted to the Regional Water Quality Control Board (RWQCB) and Restoration Advisory Board (RAB) under separate cover. Preparation of a

comprehensive evaluation report that incorporates soil vapor and groundwater data is currently in process.

A summary of the GWTS operations is presented below. Operations of the SVE and biosparge systems are presented separately in quarterly remediation progress reports that are provided to the RWQCB and RAB.

Summary of Quarterly Groundwater Treatment System Operations

A total of 1,224,622 gallons of groundwater were extracted from the south-central and southeastern areas and discharged to Coyote Creek during the first quarter 2017. Wells that were in operation included MW-SF-3, GMW-9, GMW-10, GMW-O-11, GMW-O-20, and GMW-O-23 in the south-central area, and GMW-36, GMW-O-15, GMW-O-18, and GMW-SF-9 in the southeastern area. 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.

Two gallons of free product accumulated in the product holding tank of the GWTS during the first quarter 2017. Hand bailing of free product (from wells not equipped for TFE) was not performed during this reporting period.

Routine Effluent Monitoring

During the first quarter 2017, effluent water samples were collected pursuant to the Waste Discharge Requirements (WDRs) under Order No. R4-2016-0309. Samples were collected at the Order-designated monitoring point EFF-001 (Remediation System Effluent) for monthly and quarterly analysis.

All compliance samples were shipped to Asset Laboratories in Las Vegas, Nevada, for analyses. Asset Laboratories 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.

Summary of Compliance Results

Monthly and Quarterly Sampling

Analytical results for the January, February, and March 2017 sampling events at the effluent are summarized in Table 2. The results were compared with monthly and quarterly discharge limits under Order No. R4-2016-0309. As shown in Table 2, all discharge limits for the treatment system effluent were met during the reporting period. There are no receiving water discharge limitations under the WDRs. Laboratory analytical reports and chain-of-custody documents are included in Attachment A.

Under NPDES Order No. R4-2016-0306, a wet weather condition is present when the maximum daily flow in Coyote Creek is equal to or greater than 156 cubic feet per second (cfs) as measured at the Los Angeles County Department of Public Works flow gauge station F354-R, located at the bottom of the creek just above the Long Beach Water Reclamation Plant. The maximum daily flow in Coyote Creek at the Gauge Station below Spring Street (F354-R) is reported in Table 3. Based on the data, the January and February 2017 sampling events, with maximum daily flows of 7,940 cfs and 253 cfs, respectively, occurred during wet weather conditions. Therefore, the analytical results for January and February 2017 are compared to wet weather discharge limits, and analytical results for March 2017 are compared to the dry weather discharge limit.

Waste Hauling

On February 8, 2017, approximately 100 pounds of hazardous solid waste (sediment from an abandoned plastic tank) was removed from the site by Patriot Environmental Services of 508 East E. Street, Unit A, Wilmington, California 90744. The waste was transported to Crosby & Overton at 1630 West 17th Street, Long Beach, California 90813.

On February 21, 2017, approximately 40 cubic yards of hazardous solid waste (insulation from the decommissioned oxidizer) was removed from the site by Environmental Contractors Transportation, Inc., of 953 Reece Street, San Bernardino, California 92411. The waste was transported to US Ecology at Highway 95, 12 miles south of Beatty, Nevada 89003. Copies of the waste manifests are included in Attachment B.

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

Regards,
CH2M HILL Engineers, Inc.



Vladimir Carino
Project Engineer

Attachments:

- Table 1 – Effluent Flow Rate Measurements, First Quarter 2017
- Table 2 – NPDES Effluent Monitoring, First Quarter 2017
- Table 3 – Maximum Daily Flow in Coyote Creek, First Quarter 2017
- Figure 1 – Site Location Map
- Figure 2 – Remediation System Layout
- Attachment A – Laboratory Analytical Reports and Chain-of-Custody Documents
- Attachment B – Waste Manifests

Tables

Table 1. Effluent Flow Rate Measurements, First Quarter 2017*SFPP Norwalk Pump Station, Norwalk, California*

Date	Average Flow Rate (gpd) (Maximum Daily Discharge Limit = 150,000 gpd ³)
01/01/17	14,798
01/02/17	14,541
01/03/17	14,466
01/04/17	14,393
01/05/17	15,123
01/06/17	14,196
01/07/17	13,977
01/08/17	13,886
01/09/17	14,708
01/10/17	14,410
01/11/17	14,410
01/12/17	16,594
01/13/17	13,973
01/14/17	13,992
01/15/17	13,915
01/16/17	13,661
01/17/17	13,735
01/18/17	13,365
01/19/17	14,294
01/20/17	15,539
01/21/17	13,429
01/22/17	13,377
01/23/17	6,971
01/24/17	6,792
01/25/17	13,424
01/26/17	10,581
01/27/17	4,118
01/28/17	14,032
01/29/17	10,610
01/30/17	6,517
01/31/17	14,494
02/01/17	14,266
02/02/17	14,041
02/03/17	14,173
02/04/17	14,017
02/05/17	13,865
02/06/17	14,942
02/07/17	14,164
02/08/17	13,893
02/09/17	11,422
02/10/17	14,423
02/11/17	15,000
02/12/17	14,848
02/13/17	14,888
02/14/17	14,902
02/15/17	14,623
02/16/17	14,898
02/17/17	17,779
02/18/17	16,607
02/19/17	14,869
02/20/17	14,648
02/21/17	14,774
02/22/17	14,132
02/23/17	14,072
02/24/17	13,197
02/25/17	12,909
02/26/17	12,945
02/27/17	13,136
02/28/17	13,136

Table 1. Effluent Flow Rate Measurements, First Quarter 2017*SFPP Norwalk Pump Station, Norwalk, California*

Date	Average Flow Rate (gpd) (Maximum Daily Discharge Limit = 150,000 gpd ^a)
03/01/17	17,653
03/02/17	17,551
03/03/17	13,136
03/04/17	16,368
03/05/17	8,221
03/06/17	13,069
03/07/17	12,582
03/08/17	7,080
03/09/17	10,592
03/10/17	14,300
03/11/17	11,294
03/12/17	14,897
03/13/17	14,725
03/14/17	10,819
03/15/17	11,954
03/16/17	13,296
03/17/17	14,413
03/18/17	15,131
03/19/17	15,166
03/20/17	14,773
03/21/17	14,312
03/22/17	14,881
03/23/17	13,271
03/24/17	14,252
03/25/17	14,298
03/26/17	14,148
03/27/17	14,202
03/28/17	13,638
03/29/17	13,944
03/30/17	13,696
03/31/17	14,070

Notes:

^a California Regional Water Quality Control Board Waste Discharge Requirements (WDRs).

gpd = gallons per day

Table 2. NPDES Effluent Monitoring, First Quarter 2017
SFPD Norwalk Pump Station, Norwalk, California

Analyte	Sampling Frequency	Analytical Method	Units	MDL ^c	RL ^c	ML ^a	1/19/2017	2/3/2017	3/3/2017	Discharge Limits ^b	
										Monthly Average	Daily Maximum
Flow	Daily	--	gpd	--	--	--	14,294	14,173	13,136	--	150,000
TPH as gas (C4-C12)	Monthly	EPA 8015B	µg/L	16	50	NE	35 J	28 J	25 J	--	--
TPH as Diesel (C13-C22)	Monthly	EPA 8015B	µg/L	16	26	NE	<16	<15	<15	--	--
TPH as Oil (C23+)	Monthly	EPA 8015B	µg/L	14	26.32	NE	26 J	17 J	25 J	--	--
Total TPH	Monthly	EPA 8015B	µg/L	16	100	NE	61 J	45 J	50 J	--	100
Total TPH	Monthly	Calculated	lb/day	--	--	--	0.007272	0.005319	0.005478	--	0.13
Benzene	Monthly	EPA 8260B	µg/L	0.14	1	2.0	<0.14	<0.14	0.07 J	--	--
1,1-Dichloroethane	Monthly	EPA 8260B	µg/L	0.13	0.5	1.0	<0.13	<0.13	<0.022	--	--
1,2-Dichloroethane	Monthly	EPA 8260B	µg/L	0.13	0.5	2.0	<0.13	<0.13	<0.064	--	--
Ethylbenzene	Monthly	EPA 8260B	µg/L	0.14	1.0	2.0	<0.14	<0.14	0.08 J	--	--
Phenol	Monthly	EPA 8270C	µg/L	0.34	2.1	1.0	<0.34	0.85 J	0.65 J	--	--
Toluene	Monthly	EPA 8260B	µg/L	0.14	2.0	2.0	<0.14	<0.14	0.28 J	--	--
Methyl tertiary-butyl ether	Monthly	EPA 8260B	µg/L	0.13	1.0	NE	<0.13	<0.13	<0.062	--	--
Tertiary butyl alcohol	Monthly	EPA 8260B	µg/L	1.8	5.0	NE	<1.8	<1.8	<0.3	--	--
Total Xylenes	Monthly	EPA 8260B	µg/L	1.5	2.0	NE	<1.5	<1.5	<1.5	--	--
Copper (total recoverable) (dry weather)	Monthly	EPA 200.8	µg/L	0.26	0.5	0.5	--	--	<0.26	9.7	32
Copper (total recoverable) (dry weather)	Monthly	Calculated	lb/day	--	--	--	--	--	0.000028	0.012	0.04
Copper (total recoverable) (wet weather) ^d	Monthly	EPA 200.8	µg/L	0.26	0.5	0.5	<0.26	<0.26	--	8.3	27
Copper (total recoverable) (wet weather) ^d	Monthly	Calculated	lb/day	--	--	--	0.000031	0.000031	--	0.010	0.034
Lead (total recoverable) (wet weather) ^d	Monthly	EPA 200.8	µg/L	0.18	2.5	0.5	<0.037	<0.18	<0.18	33	106
Lead (total recoverable) (wet weather) ^d	Monthly	Calculated	lb/day	--	--	--	0.000004	0.000021	0.00002	0.041	0.13
Mercury (total recoverable)	Monthly	EPA 245.1	µg/L	0.018	0.1	0.2	<0.018	<0.018	<0.018	0.051	0.10
Mercury (total recoverable)	Monthly	Calculated	lb/day	--	--	--	0.000002	0.000002	0.000002	6.40E-05	1.30E-04
Zinc (total recoverable) (dry weather)	Monthly	EPA 200.8	µg/L	0.27	1.0	1.0	--	--	12	64	220
Zinc (total recoverable) (dry weather)	Monthly	Calculated	lb/day	--	--	--	--	--	0.001315	0.080	0.28
Zinc (total recoverable) (wet weather) ^d	Monthly	EPA 200.8	µg/L	0.27	1.0	1.0	4	8.6	--	46	158
Zinc (total recoverable) (wet weather) ^d	Monthly	Calculated	lb/day	--	--	--	0.000477	0.001017	--	0.058	0.2
BOD	Quarterly	SM 5210B	mg/L	1.5	1.5	NE	<1.5	--	--	20	30
BOD	Quarterly	Calculated	lb/day	--	--	--	0.178818	--	--	25	38
Total Suspended Solids	Quarterly	SM 2540D	mg/L	10	10.00	NE	<10	--	--	50	75
Total Suspended Solids	Quarterly	Calculated	lb/day	--	--	--	1.19212	--	--	63	94
pH	Quarterly	--	s.u.	--	--	NE	7	--	--	--	6.5/8.5
Oil and Grease	Quarterly	EPA 1664A	mg/L	0.71	4.40	NE	<0.71	--	--	10	15
Oil and Grease	Quarterly	Calculated	lb/day	--	--	--	0.08464	--	--	13	19
Ammonia Nitrogen (as N)	Quarterly	EPA 350.1	mg/L	0.025	0.13	NE	<0.025	--	--	--	--
Settleable Solids	Quarterly	SM 2540F	mL/L/hr	0.087	0.09	NE	<0.087	--	--	0.1	0.3
Temperature	Quarterly	Temperature	°F	--	--	NE	70	--	--	--	86
Turbidity	Quarterly	SM 2130B	NTU	0.1	0.10	NE	0.36	--	--	50	75
Salinity	2x/year	SM 2520B	--	--	--	NE	--	--	--	--	--
Chronic Toxicity (see Table 7)	2x/year	--	--	--	--	NE	--	--	--	--	--
Di-isopropyl Ether	Annually	EPA 8260B	µg/L	--	--	NE	--	--	--	--	--
Methyl ethyl ketone	Annually	EPA 8260B	µg/L	--	--	NE	--	--	--	--	--
Methylene Blue Active Substances	Annually	SM 5540C	mg/L	--	--	NE	--	--	--	--	--
Nitrate + Nitrite as N	Annually	EPA 300.0	mg/L	--	--	NE	--	--	--	--	--
Sulfides	Annually	SM 4500 SD	mg/L	--	--	NE	--	--	--	--	--
Tert-amyl-methyl Ether	Annually	EPA 8260B	µg/L	--	--	NE	--	--	--	--	--
TCDD Equivalents	Annually	EPA 8290	pg/L	--	--	NE	--	--	--	--	--
Other Priority Pollutants (see Table 4)	Annually	--	--	--	--	--	--	--	--	--	--

Table 2. NPDES Effluent Monitoring, First Quarter 2017

SFPP Norwalk Pump Station, Norwalk, California

Notes:

^a 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.

^b California Regional Water Quality Control Board Waste Discharge Requirements (WDRs) under Order No. R4-2016-0309.

^c The highest MDL and RL during this reporting period are shown.

^d Wet weather condition is defined as a maximum daily flow above 156 cubic feet per second as measured at the Los Angeles County Department of Public Works' flow gauge station F354-R. The maximum daily flows in Coyote Creek, as measured at Coyote Creek Gauge Station below Spring Street (F354-R), during the January and February 2017 sampling events were 7,940 cfs and 253 cfs, respectively. Therefore, the January and February 2017 results will be compared to the wet weather discharge limits. The maximum daily flow in Coyote Creek in March 2017, as measured at Coyote Creek Gauge Station below Spring Street (F354-R) was 76 cfs. Therefore, the March 2017 results will be compared to dry weather discharge limits.

-- = not measured or not analyzed

< = not detected above the MDL

° F = degrees Fahrenheit

µg/L = micrograms per liter

cfs = cubic feet per second

J = detected at a concentration below the RL and above the MDL.

Reported value is estimated.

MDL = laboratory method detection limit

mg/L = milligrams per liter

ML = minimum level. See note a.

mL/L/hr = milliliters per liter per hour

NE = not established

lb/day = pounds per day

NTU = nephelometric turbidity unit(s)

RL = reporting limit

TPH = total petroleum hydrocarbons

pg/L = picograms per liter

NPDES = National Pollutant Discharge Elimination System

gpd = gallons per day

BOD = biological oxygen demand

Table 3. Maximum Daily Flow in Coyote Creek, First Quarter 2017*SFPP Norwalk Pump Station, Norwalk, California*

Date	Maximum Daily Flow Rate (cfs)^a	Comments
01/01/17	16	
01/02/17	10	
01/03/17	11	
01/04/17	13	
01/05/17	15	
01/06/17	17	
01/07/17	19	
01/08/17	21	
01/09/17	23	
01/10/17	925	
01/11/17	4,990	
01/12/17	8,070	
01/13/17	1,500	
01/14/17	484	
01/15/17	200	
01/16/17	111	
01/17/17	118	
01/18/17	188	
01/19/17	7,940	January 2017 sampling conducted
01/20/17	16,100	
01/21/17	1,070	
01/22/17	20,100	
01/23/17	4,600	
01/24/17	309	
01/25/17	232	
01/26/17	142	
01/27/17	111	
01/28/17	116	
01/29/17	120	
01/30/17	107	
01/31/17	107	
02/01/17	108	
02/02/17	114	
02/03/17	253	February 2017 sampling conducted
02/04/17	104	
02/05/17	97	
02/06/17	3,880	
02/07/17	2,010	
02/08/17	606	
02/09/17	112	
02/10/17	1,650	
02/11/17	1,020	
02/12/17	92	
02/13/17	84	
02/14/17	81	
02/15/17	93	
02/16/17	69	
02/17/17	15,100	
02/18/17	2,430	
02/19/17	101	
02/20/17	73	
02/21/17	62	
02/22/17	39	
02/23/17	60	
02/24/17	46	
02/25/17	32	

Table 3. Maximum Daily Flow in Coyote Creek, First Quarter 2017*SFPP Norwalk Pump Station, Norwalk, California*

Date	Maximum Daily Flow Rate (cfs)^a	Comments
02/26/17	119	
02/27/17	270	
02/28/17	86	
03/01/17	65	
03/02/17	24	
03/03/17	76	March 2017 sampling conducted
03/04/17	70	
03/05/17	511	
03/06/17	94	
03/07/17	85	
03/08/17	66	
03/09/17	85	
03/10/17	83	
03/11/17	42	
03/12/17	27	
03/13/17	42	
03/14/17	22	
03/15/17	31	
03/16/17	32	
03/17/17	39	
03/18/17	61	
03/19/17	51	
03/20/17	51	
03/21/17	352	
03/22/17	132	
03/23/17	4	
03/24/17	4	
03/25/17	3	
03/26/17	4	
03/27/17	8	
03/28/17	5	
03/29/17	9	
03/30/17	10	
03/31/17	7	

Notes:

^a A wet weather event is any day when the maximum daily flow of Coyote Creek is greater than or equal to 156 cfs. A dry weather event is any day when the maximum daily flow of Coyote Creek is less than 156 cfs.

cfs = cubic feet per second

Figures

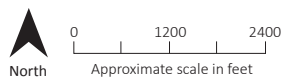
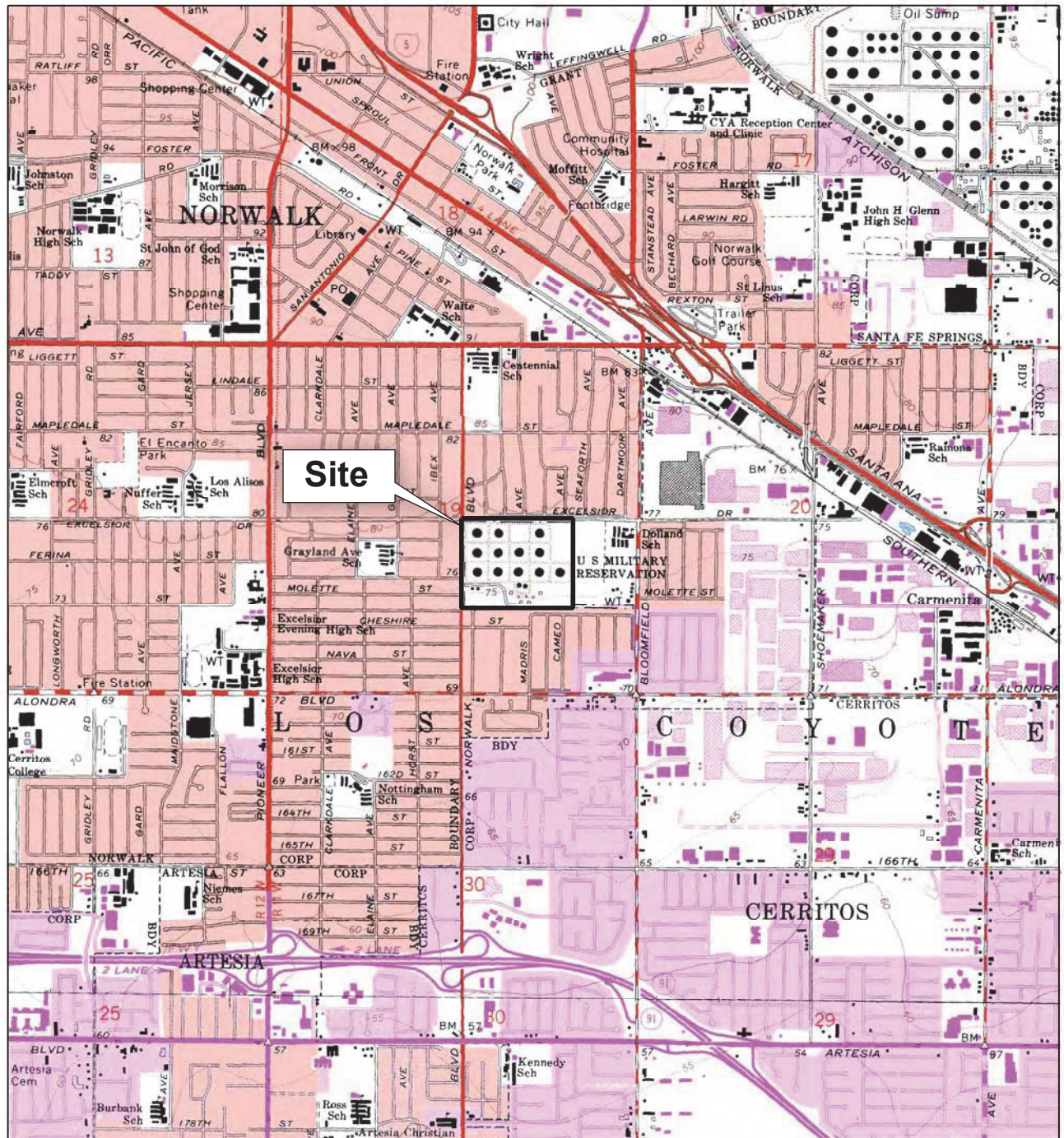


Figure 1
Site Location Map
SFP Norwalk Pump Station
Norwalk, California

BASEMAP MODIFIED FROM U.S.G.S. 7.5 MINUTE QUADRANGLE MAP
 LOS ALAMITOS 1964, CALIFORNIA. PHOTO-REVISED 1981.
 WHITTIER 1965, CALIFORNIA. PHOTO-REVISED 1981.

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

February 09, 2017

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

TEL:

FAX:

Workorder No.: N022744

RE: SFPP-Norwalk

Attention: Dan Jablonski


Enclosed are the results for sample(s) received on January 19, 2017 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.

This is an amended report. Please disregard all previous documentation that corresponds to the page(s) enclosed.

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

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

Sincerely,

 for

Puri Romualdo
Laboratory Director

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"Servina Clients with Passion and Professionalism"

CLIENT: CH2MHill
Project: SFPP-Norwalk
Lab Order: N022744

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

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

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

Samples were analyzed within method holding time.

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

Subcontracted Analyses:

Ammonia and BOD were subcontracted to BC Labs, Bakersfield, CA.

Analytical Comments for EPA 8270C:

Surrogate, 4-Terphenyl-d14, recovery biased high in sample N022744-001 and Method Blank. Sample results were non-detect (ND) for analyte of interest therefore reanalysis of the sample was not necessary.

Matrix Spike (MS) is outside recovery criteria in QC sample N022744-001I-MS. The associated Laboratory Control Sample (LCS) recovery was acceptable.



CLIENT: CH2MHill
Project: SFPP-Norwalk
Lab Order: N022744
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N022744-001A	EFF-01-19	Wastewater	1/19/2017 9:00:00 AM	1/19/2017	2/9/2017
N022744-001B	EFF-01-19	Wastewater	1/19/2017 9:00:00 AM	1/19/2017	2/9/2017
N022744-001C	EFF-01-19	Wastewater	1/19/2017 9:00:00 AM	1/19/2017	2/9/2017
N022744-001D	EFF-01-19	Wastewater	1/19/2017 9:00:00 AM	1/19/2017	2/9/2017
N022744-001E	EFF-01-19	Wastewater	1/19/2017 9:00:00 AM	1/19/2017	2/9/2017
N022744-001F	EFF-01-19	Wastewater	1/19/2017 9:00:00 AM	1/19/2017	2/9/2017
N022744-001G	EFF-01-19	Wastewater	1/19/2017 9:00:00 AM	1/19/2017	2/9/2017
N022744-001H	EFF-01-19	Wastewater	1/19/2017 9:00:00 AM	1/19/2017	2/9/2017
N022744-001I	EFF-01-19	Wastewater	1/19/2017 9:00:00 AM	1/19/2017	2/9/2017
N022744-001J	EFF-01-19	Wastewater	1/19/2017 9:00:00 AM	1/19/2017	2/9/2017



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 09-Feb-17

CLIENT: CH2MHill	Client Sample ID: EFF-01-19
Lab Order: N022744	Collection Date: 1/19/2017 9:00:00 AM
Project: SFPP-Norwalk	Matrix: WASTEWATER
Lab ID: N022744-001	

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

SM2540D

RunID: NV00922-WC_170120B	QC Batch: 60983	PrepDate: 1/20/2017	Analyst: LR
Suspended Solids (Residue, Non-Filterable)	ND 10	10	mg/L
			1 1/20/2017 09:49 AM

SETTLABLE MATTER

SM2540F

RunID: NV00922-WC_170120F	QC Batch: 60985	PrepDate: 1/20/2017	Analyst: QBM
Settleable Matter	ND 0.087	0.087	ml/L
			1 1/20/2017

HEXANE EXTRACTABLE MATERIAL (HEM)

EPA 1664 _HEM REV B

RunID: NV00922-WC_170120A	QC Batch: 60980	PrepDate: 1/20/2017	Analyst: LR
Oil & Grease	ND 0.71	4.4	mg/L
			1 1/20/2017 08:08 AM

TURBIDITY

SM 2130B

RunID: NV00922-WC_170120D	QC Batch: R112983	PrepDate:	Analyst: LR
Turbidity	0.36 0.10	0.10	NTU
			1 1/20/2017 03:50 PM

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3510C

EPA 8270C

RunID: NV00922-MS3_170123A	QC Batch: 60996	PrepDate: 1/23/2017	Analyst: MDM
Phenol	ND 0.34	2.1	µg/L
Surr: 1,2-Dichlorobenzene-d4	89.0 0	16-120	%REC
Surr: 2-Fluorobiphenyl	83.0 0	25-120	%REC
Surr: 4-Terphenyl-d14	133 0	46-132	S %REC
Surr: Phenol-d5	39.0 0	15-120	%REC
			1 1/23/2017 08:18 PM
			1 1/23/2017 08:18 PM
			1 1/23/2017 08:18 PM
			1 1/23/2017 08:18 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS8_170120A	QC Batch: R17VW012	PrepDate:	Analyst: RB
1,1-Dichloroethane	ND 0.13	0.50	ug/L
1,2-Dichloroethane	ND 0.13	0.50	ug/L
Benzene	ND 0.14	1.0	ug/L
Ethylbenzene	ND 0.14	1.0	ug/L
m,p-Xylene	ND 0.23	1.0	ug/L
MTBE	ND 0.13	1.0	ug/L
o-Xylene	ND 0.13	1.0	ug/L
			1 1/20/2017 12:30 PM
			1 1/20/2017 12:30 PM
			1 1/20/2017 12:30 PM
			1 1/20/2017 12:30 PM
			1 1/20/2017 12:30 PM
			1 1/20/2017 12:30 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: 09-Feb-17

CLIENT: CH2MHill
Lab Order: N022744
Project: SFPP-Norwalk
Lab ID: N022744-001

Client Sample ID: EFF-01-19
Collection Date: 1/19/2017 9:00:00 AM
Matrix: WASTEWATER

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

EPA 8260B

RunID:	MS8_170120A	QC Batch:	R17VW012	PrepDate:	Analyst:	RB
Tert-Butanol	ND	1.8	5.0	ug/L	1	1/20/2017 12:30 PM
Toluene	ND	0.14	2.0	ug/L	1	1/20/2017 12:30 PM
Xylenes, Total	ND	1.5	2.0	ug/L	1	1/20/2017 12:30 PM
Surr: 1,2-Dichloroethane-d4	96.2	0	72-119	%REC	1	1/20/2017 12:30 PM
Surr: 4-Bromofluorobenzene	102	0	76-119	%REC	1	1/20/2017 12:30 PM
Surr: Dibromofluoromethane	98.7	0	85-115	%REC	1	1/20/2017 12:30 PM
Surr: Toluene-d8	107	0	81-120	%REC	1	1/20/2017 12:30 PM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID:	NV00922-GC3_170120A	QC Batch:	60982	PrepDate:	1/20/2017	Analyst:	FJ
TPH-Diesel (C13-C22)	ND	16	26	ug/L	1	1/20/2017 01:58 PM	
TPH-Oil (C23-C36)	26	14	26	J ug/L	1	1/20/2017 01:58 PM	
Surr: Octacosane	80.0	0	26-152	%REC	1	1/20/2017 01:58 PM	
Surr: p-Terphenyl	80.5	0	57-132	%REC	1	1/20/2017 01:58 PM	

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID:	NV00922-GC4_170120A	QC Batch:	E17VW008	PrepDate:	Analyst:	RB
TPH-Gasoline (C4-C12)	35	16	50	J ug/L	1	1/20/2017 12:10 PM
Surr: Chlorobenzene - d5	117	0	74-138	%REC	1	1/20/2017 12:10 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 245.1

RunID:	NV00922-AA1_170120A	QC Batch:	60977	PrepDate:	1/20/2017	Analyst:	MG
Mercury	ND	0.018	0.050	µg/L	1	1/20/2017 12:28 PM	

TOTAL METALS BY ICPMS

EPA 200.8

RunID:	NV00922-ICP7_170120A	QC Batch:	60975	PrepDate:	1/20/2017	Analyst:	CEI
Copper	ND	0.26	0.50	µg/L	1	1/20/2017 02:11 PM	
Lead	ND	0.037	0.50	µg/L	1	1/20/2017 02:11 PM	
Zinc	4.0	0.27	1.0	µg/L	1	1/20/2017 02:11 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: 09-Feb-17

ASSET Laboratories

CLIENT: CH2MHill
Lab Order: N022744
Project: SFPP-Norwalk
Lab ID: N022744-001

Client Sample ID: EFF-01-19
Collection Date: 1/19/2017 9:00:00 AM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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TOTAL TPH

EPA 8015B

RunID: NV00922-GC3_170120A	QC Batch: R112979	PrepDate:	Analyst: FJ
Total TPH	61 16	100 J ug/L	1 1/20/2017

Qualifiers:	<p>B Analyte detected in the associated Method Blank</p> <p>H Holding times for preparation or analysis exceeded</p> <p>ND Not Detected at the Reporting Limit</p> <p>Results are wet unless otherwise specified</p>	<p>E Value above quantitation range</p> <p>J Analyte detected below quantitation limits</p> <p>S Spike/Surrogate outside of limits due to matrix interference</p> <p>DO Surrogate Diluted Out</p>
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CLIENT: CH2MHill
Work Order: N022744
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: LCS-60983	SampType: LCS	TestCode: 160.2_2540D_ Units: mg/L	Prep Date: 1/20/2017	RunNo: 112981							
Client ID: LCSW	Batch ID: 60983	TestNo: SM2540D	Analysis Date: 1/20/2017	SeqNo: 2539655							
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: MB-60983	SampType: MBLK	TestCode: 160.2_2540D_ Units: mg/L	Prep Date: 1/20/2017	RunNo: 112981							
Client ID: PBW	Batch ID: 60983	TestNo: SM2540D	Analysis Date: 1/20/2017	SeqNo: 2539656							
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: N022744-001EDUP	SampType: DUP	TestCode: 160.2_2540D_ Units: mg/L	Prep Date: 1/20/2017	RunNo: 112981							
Client ID: ZZZZZ	Batch ID: 60983	TestNo: SM2540D	Analysis Date: 1/20/2017	SeqNo: 2539658							
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: N022744
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.5_2540F_W

Sample ID: MB-60985	SampType: MBLK	TestCode: 160.5_2540F_ Units: m/L	Prep Date: 1/20/2017	RunNo: 113063							
Client ID: PBW	Batch ID: 60985	TestNo: SM2540F	Analysis Date: 1/20/2017	SeqNo: 2544064							
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: N022744
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: MB-60975	SampType: MBLK	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 1/20/2017	RunNo: 112985							
Client ID: PBW	Batch ID: 60975	TestNo: EPA 200.8	Analysis Date: 1/20/2017	SeqNo: 2539804							
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									

Sample ID: LCS-60975	SampType: LCS	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 1/20/2017	RunNo: 112985							
Client ID: LCSW	Batch ID: 60975	TestNo: EPA 200.8	Analysis Date: 1/20/2017	SeqNo: 2539805							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	10.281	0.50	10.00	0	103	85	115				
Lead	10.239	0.50	10.00	0	102	85	115				

Sample ID: N022744-001G-DUP	SampType: DUP	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 1/20/2017	RunNo: 112985							
Client ID: ZZZZZZ	Batch ID: 60975	TestNo: EPA 200.8	Analysis Date: 1/20/2017	SeqNo: 2539807							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	ND	0.50						0	0	20	
Lead	ND	0.50						0	0	20	

Sample ID: N022744-001G-MS	SampType: MS	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 1/20/2017	RunNo: 112985							
Client ID: ZZZZZZ	Batch ID: 60975	TestNo: EPA 200.8	Analysis Date: 1/20/2017	SeqNo: 2539810							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	7.540	0.50	10.00	0	75.4	75	125				
Lead	10.526	0.50	10.00	0	105	75	125				

Sample ID: N022744-001G-MSD	SampType: MSD	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 1/20/2017	RunNo: 112985							
Client ID: ZZZZZZ	Batch ID: 60975	TestNo: EPA 200.8	Analysis Date: 1/20/2017	SeqNo: 2539811							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	7.566	0.50	10.00	0	75.7	75	125	7.540	0.343	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: N022744
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: N022744-001G-MSD		SampType: MSD		TestCode: 200.8_W_SFPP Units: µg/L		Prep Date: 1/20/2017		RunNo: 112985			
Client ID: ZZZZZZ		Batch ID: 60975		TestNo: EPA 200.8		Analysis Date: 1/20/2017		SeqNo: 2539811			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	10.524	0.50	10.00	0	105	75	125	10.53	0.0211	20	

Sample ID: MB-60975		SampType: MBLK		TestCode: 200.8_W_SFPP Units: µg/L		Prep Date: 1/20/2017		RunNo: 112985			
Client ID: PBW		Batch ID: 60975		TestNo: EPA 200.8		Analysis Date: 1/20/2017		SeqNo: 2561322			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	0.451	1.0									J

Sample ID: LCS-60975		SampType: LCS		TestCode: 200.8_W_SFPP Units: µg/L		Prep Date: 1/20/2017		RunNo: 112985			
Client ID: LCSW		Batch ID: 60975		TestNo: EPA 200.8		Analysis Date: 1/20/2017		SeqNo: 2561323			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	106.176	1.0	100.0	0	106	85	115				

Sample ID: N022744-001G-DUP		SampType: DUP		TestCode: 200.8_W_SFPP Units: µg/L		Prep Date: 1/20/2017		RunNo: 112985			
Client ID: ZZZZZZ		Batch ID: 60975		TestNo: EPA 200.8		Analysis Date: 1/20/2017		SeqNo: 2561325			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	3.764	1.0						4.008	6.29	20	

Sample ID: N022744-001G-MS		SampType: MS		TestCode: 200.8_W_SFPP Units: µg/L		Prep Date: 1/20/2017		RunNo: 112985			
Client ID: ZZZZZZ		Batch ID: 60975		TestNo: EPA 200.8		Analysis Date: 1/20/2017		SeqNo: 2561328			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	83.527	1.0	100.0	4.008	79.5	75	125				

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N022744
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: N022744-001G-MSD	SampType: MSD	TestCode: 200.8_W_SFPP	Units: µg/L	Prep Date: 1/20/2017	RunNo: 112985						
Client ID: ZZZZZZ	Batch ID: 60975	TestNo: EPA 200.8		Analysis Date: 1/20/2017	SeqNo: 2561329						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	83.732	1.0	100.0	4.008	79.7	75	125	83.53	0.245	20	

Qualifiers:

- | | | |
|----------------------------------------------------------------|----------------------------------------|------------------------------------------------------|
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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022744
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 2130_W

Sample ID: MB-R112983	SampType: MBLK	TestCode: 2130_W	Units: NTU	Prep Date:	RunNo: 112983						
Client ID: PBW	Batch ID: R112983	TestNo: SM 2130B		Analysis Date: 1/20/2017	SeqNo: 2539724						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Turbidity	ND	0.10									

Sample ID: N022744-001EDUP	SampType: DUP	TestCode: 2130_W	Units: NTU	Prep Date:	RunNo: 112983						
Client ID: ZZZZZ	Batch ID: R112983	TestNo: SM 2130B		Analysis Date: 1/20/2017	SeqNo: 2539726						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Turbidity	0.340	0.10						0.3600	5.71	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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 EPA ID CA01638

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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022744
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W_LL

Sample ID: MB-60977	SampType: MBLK	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 1/20/2017	RunNo: 112977						
Client ID: PBW	Batch ID: 60977	TestNo: EPA 245.1		Analysis Date: 1/20/2017	SeqNo: 2539564						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.050

Sample ID: LCS-60977	SampType: LCS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 1/20/2017	RunNo: 112977						
Client ID: LCSW	Batch ID: 60977	TestNo: EPA 245.1		Analysis Date: 1/20/2017	SeqNo: 2539565						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.638 0.050 2.500 0 106 85 115

Sample ID: N022744-001G-MS	SampType: MS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 1/20/2017	RunNo: 112977						
Client ID: ZZZZZZ	Batch ID: 60977	TestNo: EPA 245.1		Analysis Date: 1/20/2017	SeqNo: 2539566						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.638 0.050 2.500 0 106 75 125

Sample ID: N022744-001G-MSD	SampType: MSD	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 1/20/2017	RunNo: 112977						
Client ID: ZZZZZZ	Batch ID: 60977	TestNo: EPA 245.1		Analysis Date: 1/20/2017	SeqNo: 2539567						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.653 0.050 2.500 0 106 75 125 2.638 0.577 20

Sample ID: N022744-001G-DUP	SampType: DUP	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 1/20/2017	RunNo: 112977						
Client ID: ZZZZZZ	Batch ID: 60977	TestNo: EPA 245.1		Analysis Date: 1/20/2017	SeqNo: 2539568						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.050 0 0 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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 EPA ID CA01638

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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022744
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-60982	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 1/20/2017	RunNo: 112979						
Client ID: PBW	Batch ID: 60982	TestNo: EPA 8015B EPA 3510C		Analysis Date: 1/20/2017	SeqNo: 2539633						
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)	23.172	25									J
Surr: Octacosane	71.085		80.00		88.9	26	152				
Surr: p-Terphenyl	73.690		80.00		92.1	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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 ELAP Cert 2921
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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022744
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPTOT

Sample ID: MB-R112979	SampType: MBLK	TestCode: 8015_W_SFP	Units: ug/L	Prep Date:	RunNo: 112979						
Client ID: PBW	Batch ID: R112979	TestNo: EPA 8015B		Analysis Date: 1/20/2017	SeqNo: 2539745						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	59.172	100									J

Qualifiers:

- | | | |
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 11110 Artesia Blvd., Ste B, Cerritos, CA 90703
 ELAP Cert 2921
 EPA ID CA01638

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 3151 W. Post Rd., Las Vegas, NV 89118
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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022744
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFP

Sample ID: E170120LCS	SampType: LCS	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 112975							
Client ID: LCSW	Batch ID: E17VW008	TestNo: EPA 8015B	Analysis Date: 1/20/2017	SeqNo: 2539619							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1040.000	50	1000	0	104	67	136				
Surr: Chlorobenzene - d5	59103.000		50000		118	74	138				

Sample ID: E170120MB2	SampType: MBLK	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 112975							
Client ID: PBW	Batch ID: E17VW008	TestNo: EPA 8015B	Analysis Date: 1/20/2017	SeqNo: 2539621							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	36.000	50									J
Surr: Chlorobenzene - d5	61350.000		50000		123	74	138				

Sample ID: N022743-001AMS	SampType: MS	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 112975							
Client ID: ZZZZZ	Batch ID: E17VW008	TestNo: EPA 8015B	Analysis Date: 1/20/2017	SeqNo: 2539624							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1092.000	50	1000	186.0	90.6	67	136				
Surr: Chlorobenzene - d5	57843.000		50000		116	74	138				

Sample ID: N022743-001AMSD	SampType: MSD	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 112975							
Client ID: ZZZZZ	Batch ID: E17VW008	TestNo: EPA 8015B	Analysis Date: 1/20/2017	SeqNo: 2539625							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1037.000	50	1000	186.0	85.1	67	136	1092	5.17	30	
Surr: Chlorobenzene - d5	57732.000		50000		115	74	138		0	0	

Qualifiers:

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



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CALIFORNIA | P: 562.219.7435 F: 562.219.7436
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703
 ELAP Cert 2921
 EPA ID CA01638

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 3151 W. Post Rd., Las Vegas, NV 89118
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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022744
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: R170120LCS		SampType: LCS		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 112976			
Client ID: LCSW		Batch ID: R17VW012		TestNo: EPA 8260B		Analysis Date: 1/20/2017		SeqNo: 2539650			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	20.030	0.50	20.00	0	100	69	133				
1,2-Dichloroethane	20.100	0.50	20.00	0	101	69	132				
Benzene	20.080	1.0	20.00	0	100	81	122				
Ethylbenzene	20.120	1.0	20.00	0	101	73	127				
m,p-Xylene	41.340	1.0	40.00	0	103	76	128				
MTBE	19.570	1.0	20.00	0	97.9	65	123				
o-Xylene	20.480	1.0	20.00	0	102	80	121				
Tert-Butanol	102.370	5.0	100.0	0	102	70	130				
Toluene	19.460	2.0	20.00	0	97.3	77	122				
Xylenes, Total	61.820	2.0	60.00	0	103	75	125				
Surr: 1,2-Dichloroethane-d4	23.940		25.00		95.8	72	119				
Surr: 4-Bromofluorobenzene	26.100		25.00		104	76	119				
Surr: Dibromofluoromethane	25.500		25.00		102	85	115				
Surr: Toluene-d8	25.360		25.00		101	81	120				

Sample ID: R170120MB3		SampType: MBLK		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 112976			
Client ID: PBW		Batch ID: R17VW012		TestNo: EPA 8260B		Analysis Date: 1/20/2017		SeqNo: 2539651			
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	24.040		25.00		96.2	72	119				

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N022744
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: R170120MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 112976						
Client ID: PBW	Batch ID: R17VW012	TestNo: EPA 8260B	Analysis Date: 1/20/2017	SeqNo: 2539651							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	23.840		25.00		95.4	76	119				
Surr: Dibromofluoromethane	24.350		25.00		97.4	85	115				
Surr: Toluene-d8	24.870		25.00		99.5	81	120				

Sample ID: N022744-001FMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 112976						
Client ID: ZZZZZ	Batch ID: R17VW012	TestNo: EPA 8260B	Analysis Date: 1/20/2017	SeqNo: 2539653							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	20.190	0.50	20.00	0	101	69	133				
1,2-Dichloroethane	20.210	0.50	20.00	0	101	69	132				
Benzene	19.930	1.0	20.00	0	99.7	81	122				
Ethylbenzene	20.310	1.0	20.00	0	102	73	127				
m,p-Xylene	40.730	1.0	40.00	0	102	76	128				
MTBE	20.320	1.0	20.00	0	102	65	123				
o-Xylene	20.280	1.0	20.00	0	101	80	121				
Tert-Butanol	119.120	5.0	100.0	0	119	70	130				
Toluene	19.530	2.0	20.00	0	97.6	77	122				
Xylenes, Total	61.010	2.0	60.00	0	102	75	125				
Surr: 1,2-Dichloroethane-d4	24.180		25.00		96.7	72	119				
Surr: 4-Bromofluorobenzene	25.740		25.00		103	76	119				
Surr: Dibromofluoromethane	25.060		25.00		100	85	115				
Surr: Toluene-d8	25.560		25.00		102	81	120				

Sample ID: N022744-001FMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 112976						
Client ID: ZZZZZ	Batch ID: R17VW012	TestNo: EPA 8260B	Analysis Date: 1/20/2017	SeqNo: 2539654							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	20.450	0.50	20.00	0	102	69	133	20.19	1.28	20	
1,2-Dichloroethane	20.780	0.50	20.00	0	104	69	132	20.21	2.78	20	
Benzene	21.170	1.0	20.00	0	106	81	122	19.93	6.03	20	

Qualifiers:

- | | | |
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CALIFORNIA | P: 562.219.7435 F: 562.219.7436
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
ELAP Cert 2921
EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691
3151 W. Post Rd., Las Vegas, NV 89118
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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022744
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N022744-001FMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 112976						
Client ID: ZZZZZZ	Batch ID: R17VW012	TestNo: EPA 8260B		Analysis Date: 1/20/2017	SeqNo: 2539654						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	21.410	1.0	20.00	0	107	73	127	20.31	5.27	20	
m,p-Xylene	41.520	1.0	40.00	0	104	76	128	40.73	1.92	20	
MTBE	20.230	1.0	20.00	0	101	65	123	20.32	0.444	20	
o-Xylene	21.320	1.0	20.00	0	107	80	121	20.28	5.00	20	
Tert-Butanol	100.170	5.0	100.0	0	100	70	130	119.1	17.3	20	
Toluene	20.760	2.0	20.00	0	104	77	122	19.53	6.11	20	
Xylenes, Total	62.840	2.0	60.00	0	105	75	125	61.01	2.96	20	
Surr: 1,2-Dichloroethane-d4	22.750		25.00		91.0	72	119		0		
Surr: 4-Bromofluorobenzene	25.470		25.00		102	76	119		0		
Surr: Dibromofluoromethane	23.480		25.00		93.9	85	115		0		
Surr: Toluene-d8	25.260		25.00		101	81	120		0		

Qualifiers:

- | | | |
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| 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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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022744
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270WATER_SIMEXT

Sample ID: LCS-60996	SampType: LCS	TestCode: 8270WATER_ Units: µg/L	Prep Date: 1/23/2017	RunNo: 113045							
Client ID: LCSW	Batch ID: 60996	TestNo: EPA 8270C EPA 3510C	Analysis Date: 1/23/2017	SeqNo: 2542451							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	2.310	2.0	6.000	0	38.5	24	120				
Surr: 1,2-Dichlorobenzene-d4	0.690		1.000		69.0	16	120				
Surr: 2-Fluorobiphenyl	0.950		1.000		95.0	25	120				
Surr: 4-Terphenyl-d14	1.180		1.000		118	46	132				
Surr: Phenol-d5	0.480		1.000		48.0	15	120				

Sample ID: MB-60996	SampType: MBLK	TestCode: 8270WATER_ Units: µg/L	Prep Date: 1/23/2017	RunNo: 113045							
Client ID: PBW	Batch ID: 60996	TestNo: EPA 8270C EPA 3510C	Analysis Date: 1/23/2017	SeqNo: 2542452							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	ND	2.0									
Surr: 1,2-Dichlorobenzene-d4	0.490		1.000		49.0	16	120				
Surr: 2-Fluorobiphenyl	0.540		1.000		54.0	25	120				
Surr: 4-Terphenyl-d14	1.350		1.000		135	46	132				S
Surr: Phenol-d5	0.390		1.000		39.0	15	120				

Sample ID: N022744-0011-MS	SampType: MS	TestCode: 8270WATER_ Units: µg/L	Prep Date: 1/23/2017	RunNo: 113045							
Client ID: ZZZZZ	Batch ID: 60996	TestNo: EPA 8270C EPA 3510C	Analysis Date: 1/23/2017	SeqNo: 2542454							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	1.414	2.0	6.061	0	23.3	24	120				JS
Surr: 1,2-Dichlorobenzene-d4	0.768		1.010		76.0	16	120				
Surr: 2-Fluorobiphenyl	0.636		1.010		63.0	25	120				
Surr: 4-Terphenyl-d14	0.960		1.010		95.0	46	132				
Surr: Phenol-d5	0.374		1.010		37.0	15	120				

Qualifiers:

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



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE ENVIRONMENTAL SCIENCE

CALIFORNIA | P: 562.219.7435 F: 562.219.7436
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
ELAP Cert 2921
EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691
3151 W. Post Rd., Las Vegas, NV 89118
ELAP Cert 2676 | NV Cert NVO0922
ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022744
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270WATER_SIMEXT

Sample ID: N022744-0011-MSD		SampType: MSD		TestCode: 8270WATER_ Units: µg/L			Prep Date: 1/23/2017		RunNo: 113045		
Client ID: ZZZZZZ		Batch ID: 60996		TestNo: EPA 8270C EPA 3510C		Analysis Date: 1/23/2017		SeqNo: 2542455			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	1.980	2.0	6.122	0	32.3	24	120	1.414	0	20	J
Surr: 1,2-Dichlorobenzene-d4	0.755		1.020		74.0	16	120		0		
Surr: 2-Fluorobiphenyl	0.633		1.020		62.0	25	120		0		
Surr: 4-Terphenyl-d14	1.041		1.020		102	46	132		0		
Surr: Phenol-d5	0.480		1.020		47.0	15	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)

NO22744 / 1-20

CHAIN OF CUSTODY RECORD

DATE: 1/19/17
 PAGE: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Sampler Information:	
Company: Kinder Morgan Energy Partners Attention: Steve Defibaugh		Report To: Dan Jablonski		Attention: Steve Defibaugh - Ref. AFE# 81195	
Address: 1100 Town & Country Road Orange, CA 92868		Copy To: Steve Defibaugh		Company: Kinder Morgan Energy Partners	
Email To: steve_defibaugh@kimermorgan.com daniel.jablonski@sh2m.com		Purchase Order No.:		Name: Marlon Cartin	
Phone: 714-560-4802 Fax: 714-560-4801		Project Name: SFPP Norwalk		Address: 1100 Town & Country Road Orange, CA 92868	
		ATL Project Manager:		Date: 1/19/17	

ITEM #	SAMPLE ID	LOCATION/ DESCRIPTION	MATRIX	SAMPLE TYPE (G=GRAVE C=COMP)	CONTAINER TYPE		TOTAL # OF CONTAINERS	SAMPLE TEMPERATURE (°F)	Analysis Test												Comments			
					# OF CONTAINERS	PRESERVATIVE			VOLUME (mL)	A	V	H	TPHs, TPH-d, and TPH-oli, Total TPH (8015B)	BTEX, 1,1-DCA, 1,2-DCA, MTBE, TBA (8260B)	Cu, Pb, Zn (200.8)	Hg (245.1)	Phenol (8270)	BOD (60 deg. C) (SM5210B)	Total Suspended Solids (SM2540D)	Oil & Grease (1664)		Ammonia Nitrogen (as N) (SM-4500 NH3C)	Settleable Solids (SM2540F)	Turbidity (SM130B)
1	EFF-01-19	EFFLUENT	WW	G	1/19/17	9:00	20	70	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	pH = 7.4 NO22744-01
2																								Report metals, TPH and VOC preliminary data on 24-hr IAT
3																								Report total Xylenes
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date / Time: 1/19/17 1000	Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date / Time: 1/19/17 1600	Turn Around Time (TAT): <input type="checkbox"/> A = Same Day <input checked="" type="checkbox"/> B = 24 Hours <input type="checkbox"/> C = 48 Hours <input type="checkbox"/> D = 72 Hours <input checked="" type="checkbox"/> E = 5 Workdays <input type="checkbox"/> F = 10 Workdays TAT Starts at 8 AM the following day if samples received after 3:00 PM.	Special Instruction: 2.80C JK # 2
Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date / Time: 1/19/17 1440	Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date / Time: 1/20/17 8:05 am		
Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date / Time: 650 # 8740	Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date / Time:		

Matrix:	Preservatives:	Container Type:
W = Water O = Oil Others/Specify:	WW = Wastewater S = Soil Z = Zn(AC)2 Others/Specify:	H = HCl N = HNO3 S = H2SO4 T = Na2S2O3 J = Jar B = Tedlar G = Glass M = Metal P = Plastic C = Can

650 # 8740

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: 7/19/2017 Workorder: N022744
 Rep sample Temp (Deg C): 2.8 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 8740 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 By: YR  1/20/2017

Reviewed By:  1/20/17

ASSET Laboratories

WORK ORDER Summary

19-Jan-17

WorkOrder: N022744

Client ID: CH2HI03

Project: SFPP-Norwalk

QC Level: RTNE

Date Received: 1/19/2017

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N022744-001A	EFF-01-19	1/19/2017 9:00:00 AM	1/26/2017	Wastewater		Oil and Grease Sample Prep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2017		EPA 1664 _HEM	Hexane Extractable Material (HEM)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N022744-001B			1/20/2017		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N022744-001C			1/20/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/20/2017		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/20/2017		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N022744-001D			1/26/2017		SM2540F	SETTLEABLE MATTER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2017			Setteable Matter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N022744-001E			1/26/2017		SM2540D	TOTAL NON-FILTERABLE RESIDUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2017			Total Suspended Solids Prep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2017		SM 2130B	TURBIDITY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N022744-001F			1/20/2017		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N022744-001G			1/20/2017			AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/20/2017		EPA 200.8	TOTAL METALS BY ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/20/2017		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/20/2017			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N022744-001H			1/26/2017		SM4500-NH3C	AMMONIA-N	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB
N022744-001I			1/26/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2017		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N022744-001J			1/26/2017		SM 5210 B	BIOCHEMICAL OXYGEN DEMAND	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB

ASSET Laboratories

WORK ORDER Summary

19-Jan-17

Client ID: CH2HI03

WorkOrder: N022744

Project: SFPP-Norwalk

QC Level: RTNE

Date Received: 1/19/2017

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N022744-002A	FOLDER		1/26/2017		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB



800-322-5555 www.gso.com

Ship From
ASSET LABORATORIES
MOLKY BRAR
11110 ARTESIA BLVD. SUITE B
CERRITOS, CA 90703

Tracking #: 534748740

CPS



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

LVS
LAS VEGAS

A

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

C89102A

Delivery Instructions:
HOLD FOR PICK UP
Signature Type: REQUIRED



61792250

Print Date: 1/19/2017 5:51 PM

Package 2 of 4

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.

2-8°C
1E#2

Jannette Joy Soria

From: Marlon B. Cartin [marlon@assetlaboratories.com]
Sent: Wednesday, February 08, 2017 3:46 PM
To: 'Jannette Joy Soria'
Subject: FW: SFPP Norwalk (Asset Labs No. N022401)
Attachments: image001.jpg

Forwarding.

Thanks,

Marlon B. Cartin

Project Manager

Nevada: 3151 W. Post Road, Las Vegas, NV 89118

P: 702.307.2659 Ext. 410 | F: 702.307.2691 | M: 702.439.0421

From: Vidal.Cortes@ch2m.com [<mailto:Vidal.Cortes@ch2m.com>]
Sent: Wednesday, February 08, 2017 3:27 PM
To: marlon@assetlaboratories.com; fernando@assetlaboratories.com
Subject: RE: SFPP Norwalk (Asset Labs No. N022401)

Marlon,

Please advise on the following as soon as possible. The lab did not meet the required permit MLs for the following analytes for the 10/21/16 sampling event.

For Zinc, RL=10 ug/L for 12/27/16; The ML was NOT met on this date because the RL does not equal the ML of 1.0 ug/L.

For Phenol, RL=2.0 ug/L for 12/27/16; The ML was NOT met on this date because the RL does not equal the ML of 1.0 ug/L.

This also applies for 01/19/17 effluent sampling event (Asset Labs No. N022744).

Zinc RL = 10 ug/L
Phenol RL = 2.1 ug/L

And the 02/03/17 effluent sampling event for which we've received the preliminary results for (Asset Labs No. N022961).

Zinc RL = 10 ug/L
Phenol RL was not included in the preliminary results.

Please advise as soon as possible!

Thank you,

Vidal Cortes
Environmental Engineer
D 1 714 435 6255
M 1 949 400 0608

CH2M
6 Hutton Centre Dr

From: reports.lv@assetlaboratories.com [<mailto:reports.lv@assetlaboratories.com>]
Sent: Thursday, December 29, 2016 2:39 PM
To: Jablonski, Daniel/LAC <Daniel.Jablonski@CH2M.com>; Cortes, Vidal/SCO <Vidal.Cortes@ch2m.com>
Cc: 'Marlon B. Cartin' <marlon@assetlaboratories.com>
Subject: SFPP Norwalk (Asset Labs No. N022401) [EXTERNAL]

Enclosed is the final report for the above project.

Thanks,
Jannette

From: reports.lv@assetlaboratories.com [<mailto:reports.lv@assetlaboratories.com>]
Sent: Thursday, December 29, 2016 9:49 AM
To: 'Daniel.Jablonski@CH2M.com'; 'Vidal.Cortes@ch2m.com'
Cc: 'Marlon B. Cartin'
Subject: RE: SFPP Norwalk (Asset Labs No. N022401)

Resending Preliminary reports. Final report to follow

From: reports.lv@assetlaboratories.com [<mailto:reports.lv@assetlaboratories.com>]
Sent: Wednesday, December 28, 2016 8:18 PM
To: 'Daniel.Jablonski@CH2M.com'; 'Vidal.Cortes@ch2m.com'
Cc: 'Marlon B. Cartin'
Subject: RE: SFPP Norwalk (Asset Labs No. N022401)

Enclosed is additional preliminary report for the above project

From: reports.lv@assetlaboratories.com [<mailto:reports.lv@assetlaboratories.com>]
Sent: Wednesday, December 28, 2016 6:59 PM
To: 'Daniel.Jablonski@CH2M.com'; 'Vidal.Cortes@ch2m.com'
Cc: 'Marlon B. Cartin'
Subject: SFPP Norwalk (Asset Labs No. N022401)

Enclosed is Preliminary report for the above project.

It's Christmas and We, at ASSET Laboratories would like to say Thank You and that...it's been a pleasure working with you this past year...We wish you and your family a Wonderful Holidays and a Happy New Year!

ASSET Laboratories will be closed on December 26 and January 2 to spend time with our families. Please be advised that any samples with short hold analyses will need to be received by ASSET Laboratories no later than Thursdays, December 22nd and 29th. For special projects, please coordinate with your project managers in advance.

Thanks,

Jannette Joy Soria



Date of Report: 01/27/2017

Molky Brar

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

Client Project: N022744
BCL Project: Cerritos
BCL Work Order: 1701939
Invoice ID: B258003

Enclosed are the results of analyses for samples received by the laboratory on 1/20/2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Sandoval
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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

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Table of Contents

Sample Information

Chain of Custody and Cooler Receipt form.....	3
Laboratory / Client Sample Cross Reference.....	5

Sample Results

1701939-01 - N022744-01 / EFF-01-19

Water Analysis (General Chemistry).....	6
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Quality Control Reports

Water Analysis (General Chemistry)

Method Blank Analysis.....	7
Laboratory Control Sample.....	8
Precision and Accuracy.....	9

Notes

Notes and Definitions.....	10
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Laboratories, Inc.

Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1701939 Page 1 of 2

Contact us: 3151 W. Post Road, Las Vegas, NV 89118
 Nevada: P: 702.307.2659 F: 702.307.2691
 California: 11110 Artesia Blvd, Ste. B • Cerritos, CA 90703
 P: 562.212.7435 F: 562.212.7436
 www.assetlaboratories.com

CHAIN OF CUSTODY RECORD



Report to: 17-01939

Page 1 of 1

Client: Asset Labs Address: Address: Phone: Submitted By: Molky Brar Title: Signature: Date:		Bill to: Address: Email to: Phone: Fax: Global ID:		EDD Requirement <input type="checkbox"/> Excel EDD <input type="checkbox"/> Geotracker <input type="checkbox"/> Labspec <input type="checkbox"/> Others Specify:		QA/QC <input type="checkbox"/> RTNE <input type="checkbox"/> RWOCB <input type="checkbox"/> Call Trans <input type="checkbox"/> Level III <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Regulatory Specify State:		Sample Receipt Condition <input type="checkbox"/> Y <input type="checkbox"/> N 1. Chilled 2. Headspace 3. Container Inhibit 4. Seal Present 5. If number 6. Method of Cooling Sample Temp:	
Company: Email: Address: Phone: Fax: Project Name: SFPP Norwalk Project Number:		Matrix <input type="checkbox"/> Ground <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Surface <input type="checkbox"/> Cement <input type="checkbox"/> Soil <input type="checkbox"/> Other Solid		Analyses Requested Ammonia BOD XX CHKB SHORT HOLDING TIME G 1/6 NO ₂ NO ₃ HOD HDMS CDT LO Cap		Turn Around Time No of container Container Type PRESERVATION Courier Tracking No.		Remarks DEF	
Item No.	Laboratory Work Order No.	Sample ID/Location	Date	Time	Water	Solid	Others	Date / Time	Date / Time
1	-1	EFF-01-19	1/10/17	9AM	X				
2									
3									
4									
5									
6									
7									
8									
9									
10									
Requisitioned by (Signature and Printed Name): Date / Time: 1-19-17 1640		Received by (Signature and Printed Name): Date / Time: Now 1/20/17 1015		Special Instruction: <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 samples received after 3:00 PM.		Turn Around Time (TAT)		Container Type: V = VOA T = Tube B = Tedlar J = Jar M = Metal P = Plastic C = Can	

5. For Blank and Equipment Blank are suitable samples.
 6. Regular TAT is 5-7 business days, surcharges will apply for rush analysis.
 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

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 17-01939

SHIPPING INFORMATION: Fed Ex UPS Ontrac Hand Delivery BC Lab Field Service Other (Specify) CSO

SHIPPING CONTAINER: Ice Chest None Box Other (Specify) _____

FREE LIQUID: YES NO W S

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received: YES NO Emissivity: 0.97 Container: PE Thermometer ID: 207 Date/Time: 1/20/17

Temperature: (A) 4.0 °C / (C) 43 °C Analyst Init: WSC/1015

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	A									
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS	B									
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
DACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____ Date/Time: 1/20/17 1020 Rev 21 05/23/2016



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

Reported: 01/27/2017 13:42
Project: Cerritos
Project Number: N022744
Project Manager: Molky Brar

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1701939-01	COC Number:	---	Receive Date:	01/20/2017 10:15
	Project Number:	---	Sampling Date:	01/19/2017 09:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	N022744-01 / EFF-01-19	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water

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

Reported: 01/27/2017 13:42
Project: Cerritos
Project Number: N022744
Project Manager: Molky Brar

Water Analysis (General Chemistry)

BCL Sample ID: 1701939-01	Client Sample Name: N022744-01 / EFF-01-19, 1/19/2017 9:00:00AM
----------------------------------	------------------------------------------------------------------------

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ammonia as NH3	ND	mg/L	0.13	0.025	EPA-350.1	ND		1
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-350.1	01/23/17	01/23/17 14:01	JMH	SC-1	1	B[A1718
2	SM17-5210B	01/20/17	01/20/17 13:00	HPR	YSIPRO	1.525	B[A2084

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

Reported: 01/27/2017 13:42
Project: Cerritos
Project Number: N022744
Project Manager: Molky Brar

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[A1718]						
Ammonia as NH3	B[A1718-BLK1	ND	mg/L	0.13	0.025	
QC Batch ID: B[A2084]						
Biochemical Oxygen Demand - Seeded	B[A2084-BLK1	ND	mg/L	1.0	1.0	

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

Reported: 01/27/2017 13:42
Project: Cerritos
Project Number: N022744
Project Manager: Molky Brar

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: B[A1718]											
Ammonia as NH3	B[A1718-BS1	LCS	1.1999	1.2160	mg/L	98.7		90 - 110			
QC Batch ID: B[A2084]											
Biochemical Oxygen Demand - Seeded	B[A2084-BS1	LCS	230.66	198.00	mg/L	116		85 - 115			

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

Reported: 01/27/2017 13:42
Project: Cerritos
Project Number: N022744
Project Manager: Molky Brar

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: B[A1718]		Used client sample: N								
Ammonia as NH3	DUP	1701190-01	0.76839	0.74906		mg/L	2.5		10	
	MS	1701190-01	0.76839	2.0067	1.3511	mg/L		91.6		90 - 110
	MSD	1701190-01	0.76839	2.0295	1.3511	mg/L	1.1	93.3	10	90 - 110
QC Batch ID: B[A2084]		Used client sample: Y - Description: N022744-01 / EFF-01-19, 01/19/2017 09:00								
Biochemical Oxygen Demand - Seeded	DUP	1701939-01	ND	ND		mg/L			20	

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

Reported: 01/27/2017 13:42
Project: Cerritos
Project Number: N022744
Project Manager: Molky Brar

Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit

February 13, 2017

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

TEL:

FAX:

Workorder No.: N022961

RE: SFPP Norwalk


Attention: Dan Jablonski

Enclosed are the results for sample(s) received on February 03, 2017 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,

 for

Puri Romualdo
Laboratory Director

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.



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CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N022961

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.

Analytical Comments for EPA 200.8:

Dilution of Lead in sample N022961-001 and QC samples N022961-001C-MS and N022961-001C-MSD was necessary due to associated internal standard not meeting method criteria possibly due to matrix interference.. Samples were analyzed with dilution and internal standard met method criteria. Affected analyte for this failed internal standard were reported at dilution that meet internal standard recovery limit.



CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N022961
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N022961-001A	EFF-02-03	Wastewater	2/3/2017 12:45:00 PM	2/3/2017	2/13/2017
N022961-001B	EFF-02-03	Wastewater	2/3/2017 12:45:00 PM	2/3/2017	2/13/2017
N022961-001C	EFF-02-03	Wastewater	2/3/2017 12:45:00 PM	2/3/2017	2/13/2017
N022961-001D	EFF-02-03	Wastewater	2/3/2017 12:45:00 PM	2/3/2017	2/13/2017



ANALYTICAL RESULTS

Print Date: 13-Feb-17

ASSET Laboratories

CLIENT: CH2MHill
Lab Order: N022961
Project: SFPP Norwalk
Lab ID: N022961-001

Client Sample ID: EFF-02-03
Collection Date: 2/3/2017 12:45:00 PM
Matrix: WASTEWATER

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

EPA 3510C

EPA 8270C

RunID: NV00922-MS3_170209A	QC Batch: 61201	PrepDate: 2/8/2017	Analyst: MDM				
Phenol	0.85	0.33	1.0	J	µg/L	1	2/9/2017 06:44 PM
Surr: 1,2-Dichlorobenzene-d4	80.0	0	16-120		%REC	1	2/9/2017 06:44 PM
Surr: 2-Fluorobiphenyl	59.0	0	25-120		%REC	1	2/9/2017 06:44 PM
Surr: 4-Terphenyl-d14	83.0	0	46-132		%REC	1	2/9/2017 06:44 PM
Surr: Phenol-d5	54.0	0	15-120		%REC	1	2/9/2017 06:44 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: NV00922-MS5_170205A	QC Batch: P17VW015	PrepDate:	Analyst: RB			
1,1-Dichloroethane	ND	0.13	0.50	ug/L	1	2/5/2017 09:34 PM
1,2-Dichloroethane	ND	0.13	0.50	ug/L	1	2/5/2017 09:34 PM
Benzene	ND	0.14	1.0	ug/L	1	2/5/2017 09:34 PM
Ethylbenzene	ND	0.14	1.0	ug/L	1	2/5/2017 09:34 PM
m,p-Xylene	ND	0.23	1.0	ug/L	1	2/5/2017 09:34 PM
MTBE	ND	0.13	1.0	ug/L	1	2/5/2017 09:34 PM
o-Xylene	ND	0.13	1.0	ug/L	1	2/5/2017 09:34 PM
Tert-Butanol	ND	1.8	5.0	ug/L	1	2/11/2017 12:32 AM
Toluene	ND	0.14	2.0	ug/L	1	2/5/2017 09:34 PM
Xylenes, Total	ND	1.5	2.0	ug/L	1	2/5/2017 09:34 PM
Surr: 1,2-Dichloroethane-d4	104	0	72-119	%REC	1	2/5/2017 09:34 PM
Surr: 1,2-Dichloroethane-d4	101	0	72-119	%REC	1	2/11/2017 12:32 AM
Surr: 4-Bromofluorobenzene	102	0	76-119	%REC	1	2/5/2017 09:34 PM
Surr: 4-Bromofluorobenzene	98.7	0	76-119	%REC	1	2/11/2017 12:32 AM
Surr: Dibromofluoromethane	104	0	85-115	%REC	1	2/5/2017 09:34 PM
Surr: Dibromofluoromethane	104	0	85-115	%REC	1	2/11/2017 12:32 AM
Surr: Toluene-d8	103	0	81-120	%REC	1	2/5/2017 09:34 PM
Surr: Toluene-d8	103	0	81-120	%REC	1	2/11/2017 12:32 AM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID: NV00922-GC3_170206A	QC Batch: 61167	PrepDate: 2/6/2017	Analyst: FJ				
TPH-Diesel (C13-C22)	ND	15	25	ug/L	1	2/6/2017 11:47 AM	
TPH-Oil (C23-C36)	17	14	25	J	ug/L	1	2/6/2017 11:47 AM
Surr: Octacosane	80.5	0	26-152		%REC	1	2/6/2017 11:47 AM
Surr: p-Terphenyl	81.1	0	57-132		%REC	1	2/6/2017 11:47 AM

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

Print Date: 13-Feb-17

ASSET Laboratories

CLIENT: CH2MHill
Lab Order: N022961
Project: SFPP Norwalk
Lab ID: N022961-001

Client Sample ID: EFF-02-03
Collection Date: 2/3/2017 12:45:00 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: NV00922-GC4_170205A	QC Batch: E17VW014	PrepDate:	Analyst: RB
TPH-Gasoline (C4-C12)	28 16	50	J ug/L
Surr: Chlorobenzene - d5	121 0	74-138	%REC

MERCURY BY COLD VAPOR TECHNIQUE

EPA 245.1

RunID: NV00922-AA1_170206A	QC Batch: 61152	PrepDate: 2/5/2017	Analyst: CEI
Mercury	ND 0.018	0.050	µg/L

TOTAL METALS BY ICPMS

EPA 200.8

RunID: NV00922-ICP7_170206A	QC Batch: 61148	PrepDate: 2/5/2017	Analyst: CEI
Copper	ND 0.26	0.50	µg/L
Lead	ND 0.18	2.5	µg/L
Zinc	8.6 0.27	1.0	µg/L

TOTAL TPH

EPA 8015B

RunID: NV00922-GC3_170206A	QC Batch: R113301	PrepDate:	Analyst: FJ
Total TPH	45 16	100	J ug/L

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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CLIENT: CH2MHill
Work Order: N022961
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: MB-61148	SampType: MBLK	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 2/5/2017	RunNo: 113299							
Client ID: PBW	Batch ID: 61148	TestNo: EPA 200.8	Analysis Date: 2/6/2017	SeqNo: 2556091							
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									

Sample ID: LCS-61148	SampType: LCS	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 2/5/2017	RunNo: 113299							
Client ID: LCSW	Batch ID: 61148	TestNo: EPA 200.8	Analysis Date: 2/6/2017	SeqNo: 2556092							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	10.285	0.50	10.00	0	103	85	115				
Lead	10.896	0.50	10.00	0	109	85	115				

Sample ID: N022961-001C-MS	SampType: MS	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 2/5/2017	RunNo: 113299							
Client ID: ZZZZZ	Batch ID: 61148	TestNo: EPA 200.8	Analysis Date: 2/6/2017	SeqNo: 2556100							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	8.198	0.50	10.00	0	82.0	75	125				

Sample ID: N022961-001C-MS	SampType: MS	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 2/5/2017	RunNo: 113299							
Client ID: ZZZZZ	Batch ID: 61148	TestNo: EPA 200.8	Analysis Date: 2/6/2017	SeqNo: 2556103							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	10.726	2.5	10.00	0	107	75	125				

Sample ID: N022961-001C-MSD	SampType: MSD	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 2/5/2017	RunNo: 113299							
Client ID: ZZZZZ	Batch ID: 61148	TestNo: EPA 200.8	Analysis Date: 2/6/2017	SeqNo: 2556104							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	8.080	0.50	10.00	0	80.8	75	125	8.198	1.45	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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CLIENT: CH2MHill
Work Order: N022961
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: N022961-001C-MSD	SampType: MSD	TestCode: 200.8_W_SFPP	Units: µg/L	Prep Date: 2/5/2017	RunNo: 113299						
Client ID: ZZZZZZ	Batch ID: 61148	TestNo: EPA 200.8		Analysis Date: 2/6/2017	SeqNo: 2556105						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	10.768	2.5	10.00	0	108	75	125	10.73	0.388	20	

Sample ID: MB-61148	SampType: MBLK	TestCode: 200.8_W_SFPP	Units: µg/L	Prep Date: 2/5/2017	RunNo: 113299						
Client ID: PBW	Batch ID: 61148	TestNo: EPA 200.8		Analysis Date: 2/6/2017	SeqNo: 2561382						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	ND	1.0									

Sample ID: LCS-61148	SampType: LCS	TestCode: 200.8_W_SFPP	Units: µg/L	Prep Date: 2/5/2017	RunNo: 113299						
Client ID: LCSW	Batch ID: 61148	TestNo: EPA 200.8		Analysis Date: 2/6/2017	SeqNo: 2561383						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	98.921	1.0	100.0	0	98.9	85	115				

Sample ID: N022961-001C-MS	SampType: MS	TestCode: 200.8_W_SFPP	Units: µg/L	Prep Date: 2/5/2017	RunNo: 113299						
Client ID: ZZZZZZ	Batch ID: 61148	TestNo: EPA 200.8		Analysis Date: 2/6/2017	SeqNo: 2561391						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	88.724	1.0	100.0	8.589	80.1	75	125				

Sample ID: N022961-001C-MSD	SampType: MSD	TestCode: 200.8_W_SFPP	Units: µg/L	Prep Date: 2/5/2017	RunNo: 113299						
Client ID: ZZZZZZ	Batch ID: 61148	TestNo: EPA 200.8		Analysis Date: 2/6/2017	SeqNo: 2561395						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	88.077	1.0	100.0	8.589	79.5	75	125	88.72	0.731	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: N022961
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W_LL

Sample ID: MB-61152	SampType: MBLK	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 2/5/2017	RunNo: 113296						
Client ID: PBW	Batch ID: 61152	TestNo: EPA 245.1		Analysis Date: 2/6/2017	SeqNo: 2555892						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.050

Sample ID: LCS-61152	SampType: LCS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 2/5/2017	RunNo: 113296						
Client ID: LCSW	Batch ID: 61152	TestNo: EPA 245.1		Analysis Date: 2/6/2017	SeqNo: 2555893						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.530 0.050 2.500 0 101 85 115

Sample ID: N022961-001C-MS	SampType: MS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 2/5/2017	RunNo: 113296						
Client ID: ZZZZZ	Batch ID: 61152	TestNo: EPA 245.1		Analysis Date: 2/6/2017	SeqNo: 2555894						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.673 0.050 2.500 0 107 75 125

Sample ID: N022961-001C-MSD	SampType: MSD	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 2/5/2017	RunNo: 113296						
Client ID: ZZZZZ	Batch ID: 61152	TestNo: EPA 245.1		Analysis Date: 2/6/2017	SeqNo: 2555895						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.932 0.050 2.500 0 117 75 125 2.673 9.27 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: N022961
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-61167	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 2/6/2017	RunNo: 113301						
Client ID: PBW	Batch ID: 61167	TestNo: EPA 8015B EPA 3510C		Analysis Date: 2/6/2017	SeqNo: 2556157						
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)	19.843	25									J
Surr: Octacosane	60.412		80.00		75.5	26	152				
Surr: p-Terphenyl	60.454		80.00		75.6	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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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022961
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

Sample ID: MB-R113301	SampType: MBLK	TestCode: 8015_W_SFP	Units: ug/L	Prep Date:	RunNo: 113301						
Client ID: PBW	Batch ID: R113301	TestNo: EPA 8015B		Analysis Date: 2/6/2017	SeqNo: 2556238						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	45.843	100									J

Qualifiers:

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



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[CALIFORNIA](#) | P: 562.219.7435 | F: 562.219.7436
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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 EPA ID CA01638

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 3151 W. Post Rd., Las Vegas, NV 89118
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CLIENT: CH2MHill
Work Order: N022961
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPF

Sample ID: E170205LCS	SampType: LCS	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 113279							
Client ID: LCSW	Batch ID: E17VW014	TestNo: EPA 8015B	Analysis Date: 2/5/2017	SeqNo: 2554811							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1019.000	50	1000	0	102	67	136				
Surr: Chlorobenzene - d5	61652.000		50000		123	74	138				

Sample ID: E170205MB2	SampType: MBLK	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 113279							
Client ID: PBW	Batch ID: E17VW014	TestNo: EPA 8015B	Analysis Date: 2/5/2017	SeqNo: 2554813							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	26.000	50									J
Surr: Chlorobenzene - d5	65501.000		50000		131	74	138				

Sample ID: N022963-001AMS	SampType: MS	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 113279							
Client ID: ZZZZZ	Batch ID: E17VW014	TestNo: EPA 8015B	Analysis Date: 2/5/2017	SeqNo: 2554816							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1237.000	50	1000	391.0	84.6	67	136				
Surr: Chlorobenzene - d5	58698.000		50000		117	74	138				

Sample ID: N022963-001AMSD	SampType: MSD	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 113279							
Client ID: ZZZZZ	Batch ID: E17VW014	TestNo: EPA 8015B	Analysis Date: 2/5/2017	SeqNo: 2555117							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1262.000	50	1000	391.0	87.1	67	136	1237	2.00	30	
Surr: Chlorobenzene - d5	58047.000		50000		116	74	138		0	0	

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N022961
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170205LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113289						
Client ID: LCSW	Batch ID: P17VW015	TestNo: EPA 8260B		Analysis Date: 2/5/2017	SeqNo: 2555566						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	17.630	0.50	20.00	0	88.2	69	133				
1,2-Dichloroethane	20.230	0.50	20.00	0	101	69	132				
Benzene	19.080	1.0	20.00	0	95.4	81	122				
Ethylbenzene	19.920	1.0	20.00	0	99.6	73	127				
m,p-Xylene	39.600	1.0	40.00	0	99.0	76	128				
MTBE	16.390	1.0	20.00	0	82.0	65	123				
o-Xylene	20.010	1.0	20.00	0	100	80	121				
Toluene	18.360	2.0	20.00	0	91.8	77	122				
Xylenes, Total	59.610	2.0	60.00	0	99.4	75	125				
Surr: 1,2-Dichloroethane-d4	25.380		25.00		102	72	119				
Surr: 4-Bromofluorobenzene	26.040		25.00		104	76	119				
Surr: Dibromofluoromethane	24.960		25.00		99.8	85	115				
Surr: Toluene-d8	25.170		25.00		101	81	120				

Sample ID: P170205MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113289						
Client ID: PBW	Batch ID: P17VW015	TestNo: EPA 8260B		Analysis Date: 2/5/2017	SeqNo: 2555569						
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									
Toluene	0.140	2.0									J
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	28.800		25.00		115	72	119				
Surr: 4-Bromofluorobenzene	25.630		25.00		103	76	119				
Surr: Dibromofluoromethane	27.060		25.00		108	85	115				

Qualifiers:

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



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CALIFORNIA | P: 562.219.7435 | F: 562.219.7436
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
ELAP Cert 2921
EPA ID CA01638

NEVADA | P: 702.307.2659 | F: 702.307.2691
3151 W. Post Rd., Las Vegas, NV 89118
ELAP Cert 2676 | NV Cert NVO0922
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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
 Work Order: N022961
 Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170205MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113289						
Client ID: PBW	Batch ID: P17VW015	TestNo: EPA 8260B		Analysis Date: 2/5/2017	SeqNo: 2555569						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	26.000		25.00		104	81	120				

Sample ID: N022961-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113289						
Client ID: ZZZZZ	Batch ID: P17VW015	TestNo: EPA 8260B		Analysis Date: 2/5/2017	SeqNo: 2555571						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	16.880	0.50	20.00	0	84.4	69	133				
1,2-Dichloroethane	17.960	0.50	20.00	0	89.8	69	132				
Benzene	17.440	1.0	20.00	0	87.2	81	122				
Ethylbenzene	18.280	1.0	20.00	0	91.4	73	127				
m,p-Xylene	35.850	1.0	40.00	0	89.6	76	128				
MTBE	14.640	1.0	20.00	0	73.2	65	123				
o-Xylene	18.200	1.0	20.00	0	91.0	80	121				
Toluene	16.670	2.0	20.00	0	83.4	77	122				
Xylenes, Total	54.050	2.0	60.00	0	90.1	75	125				
Surr: 1,2-Dichloroethane-d4	24.670		25.00		98.7	72	119				
Surr: 4-Bromofluorobenzene	24.540		25.00		98.2	76	119				
Surr: Dibromofluoromethane	24.350		25.00		97.4	85	115				
Surr: Toluene-d8	24.230		25.00		96.9	81	120				

Sample ID: N022961-001AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113289						
Client ID: ZZZZZ	Batch ID: P17VW015	TestNo: EPA 8260B		Analysis Date: 2/5/2017	SeqNo: 2555572						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	18.730	0.50	20.00	0	93.6	69	133	16.88	10.4	20	
1,2-Dichloroethane	20.400	0.50	20.00	0	102	69	132	17.96	12.7	20	
Benzene	19.820	1.0	20.00	0	99.1	81	122	17.44	12.8	20	
Ethylbenzene	20.800	1.0	20.00	0	104	73	127	18.28	12.9	20	
m,p-Xylene	40.300	1.0	40.00	0	101	76	128	35.85	11.7	20	
MTBE	16.780	1.0	20.00	0	83.9	65	123	14.64	13.6	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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CALIFORNIA | P: 562.219.7435 F: 562.219.7436
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
ELAP Cert 2921
EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691
3151 W. Post Rd., Las Vegas, NV 89118
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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022961
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N022961-001AMSD		SampType: MSD		TestCode: 8260_WP_SF		Units: ug/L		Prep Date:		RunNo: 113289	
Client ID: ZZZZZZ		Batch ID: P17VW015		TestNo: EPA 8260B		Analysis Date: 2/5/2017				SeqNo: 2555572	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	20.360	1.0	20.00	0	102	80	121	18.20	11.2	20	
Toluene	19.480	2.0	20.00	0	97.4	77	122	16.67	15.5	20	
Xylenes, Total	60.660	2.0	60.00	0	101	75	125	54.05	11.5	20	
Surr: 1,2-Dichloroethane-d4	25.570		25.00		102	72	119		0		
Surr: 4-Bromofluorobenzene	24.210		25.00		96.8	76	119		0		
Surr: Dibromofluoromethane	25.620		25.00		102	85	115		0		
Surr: Toluene-d8	25.070		25.00		100	81	120		0		

Qualifiers:

- | | | |
|----------------------------------------------------------------|----------------------------------------|------------------------------------------------------|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022961
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: 20ppb-LCS		SampType: LCS		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 113448			
Client ID: LCSW		Batch ID: P17VW019		TestNo: EPA 8260B		Analysis Date: 2/10/2017		SeqNo: 2563604			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tert-Butanol	107.550	5.0	100.0	0	108	70	130				
Surr: 1,2-Dichloroethane-d4	25.310		25.00		101	72	119				
Surr: 4-Bromofluorobenzene	26.010		25.00		104	76	119				
Surr: Dibromofluoromethane	25.740		25.00		103	85	115				
Surr: Toluene-d8	25.480		25.00		102	81	120				

Sample ID: P170210MB3		SampType: MBLK		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 113448			
Client ID: PBW		Batch ID: P17VW019		TestNo: EPA 8260B		Analysis Date: 2/10/2017		SeqNo: 2563607			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tert-Butanol	ND	5.0									
Surr: 1,2-Dichloroethane-d4	28.170		25.00		113	72	119				
Surr: 4-Bromofluorobenzene	26.460		25.00		106	76	119				
Surr: Dibromofluoromethane	27.240		25.00		109	85	115				
Surr: Toluene-d8	26.140		25.00		105	81	120				

Sample ID: N023045-001AMS		SampType: MS		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 113448			
Client ID: ZZZZZ		Batch ID: P17VW019		TestNo: EPA 8260B		Analysis Date: 2/11/2017		SeqNo: 2563617			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tert-Butanol	107.830	5.0	100.0	0	108	70	130				
Surr: 1,2-Dichloroethane-d4	29.030		25.00		116	72	119				
Surr: 4-Bromofluorobenzene	25.090		25.00		100	76	119				
Surr: Dibromofluoromethane	27.620		25.00		110	85	115				
Surr: Toluene-d8	26.270		25.00		105	81	120				

Qualifiers:

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



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ELAP Cert 2921
EPA ID CA01638

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CLIENT: CH2MHill
Work Order: N022961
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N023045-001AMSD		SampType: MSD		TestCode: 8260_WP_SF		Units: ug/L		Prep Date:		RunNo: 113448	
Client ID: ZZZZZ		Batch ID: P17VW019		TestNo: EPA 8260B		Analysis Date: 2/11/2017				SeqNo: 2563618	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tert-Butanol	114.960	5.0	100.0	0	115	70	130	107.8	6.40	20	
Surr: 1,2-Dichloroethane-d4	27.810		25.00		111	72	119		0		
Surr: 4-Bromofluorobenzene	25.940		25.00		104	76	119		0		
Surr: Dibromofluoromethane	26.870		25.00		107	85	115		0		
Surr: Toluene-d8	25.740		25.00		103	81	120		0		

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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[CALIFORNIA](#) | P:562.219.7435 F:562.219.7436
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 ELAP Cert 2921
 EPA ID CA01638

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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022961
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270WATER_SIMEXT

Sample ID: LCS-61201		SampType: LCS		TestCode: 8270WATER_ Units: µg/L		Prep Date: 2/8/2017		RunNo: 113421			
Client ID: LCSW		Batch ID: 61201		TestNo: EPA 8270C EPA 3510C		Analysis Date: 2/9/2017		SeqNo: 2562208			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	4.500	1.0	6.000	0	75.0	24	120				
Surr: 1,2-Dichlorobenzene-d4	0.550		1.000		55.0	16	120				
Surr: 2-Fluorobiphenyl	0.700		1.000		70.0	25	120				
Surr: 4-Terphenyl-d14	1.160		1.000		116	46	132				
Surr: Phenol-d5	0.490		1.000		49.0	15	120				

Sample ID: LCS-D-61201		SampType: LCS-D		TestCode: 8270WATER_ Units: µg/L		Prep Date: 2/8/2017		RunNo: 113421			
Client ID: LCS02		Batch ID: 61201		TestNo: EPA 8270C EPA 3510C		Analysis Date: 2/9/2017		SeqNo: 2562209			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	4.260	1.0	6.000	0	71.0	24	120	4.500	5.48	20	
Surr: 1,2-Dichlorobenzene-d4	0.530		1.000		53.0	16	120		0		
Surr: 2-Fluorobiphenyl	0.690		1.000		69.0	25	120		0		
Surr: 4-Terphenyl-d14	1.260		1.000		126	46	132		0		
Surr: Phenol-d5	0.430		1.000		43.0	15	120		0		

Sample ID: MB-61201		SampType: MBLK		TestCode: 8270WATER_ Units: µg/L		Prep Date: 2/8/2017		RunNo: 113421			
Client ID: PBW		Batch ID: 61201		TestNo: EPA 8270C EPA 3510C		Analysis Date: 2/9/2017		SeqNo: 2562210			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	0.390	1.0									J
Surr: 1,2-Dichlorobenzene-d4	0.750		1.000		75.0	16	120				
Surr: 2-Fluorobiphenyl	0.570		1.000		57.0	25	120				
Surr: 4-Terphenyl-d14	0.990		1.000		99.0	46	132				
Surr: Phenol-d5	0.550		1.000		55.0	15	120				

Qualifiers:

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



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CALIFORNIA | P: 562.219.7435 | F: 562.219.7436
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
ELAP Cert 2921
EPA ID CA01638

NEVADA | P: 702.307.2659 | F: 702.307.2691
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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: 2/3/2017 Workorder: N022961
 Rep sample Temp (Deg C): 4.5 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 9449 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? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Was Client notified? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments:

Checklist Completed B YR for 2/6/17

Reviewed By: [Signature] 2/6/2017

ASSET Laboratories

WORK ORDER Summary

04-Feb-17

WorkOrder: N022961

Client ID: CH2HI03

Project: SFPP Norwalk

QC Level: RTNE

Date Received: 2/3/2017

Comments: pH 7.2. Report Metals, TPH and VOC preliminary data on 24-hr TAT. Report Total Xylenes.

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N022961-001A	EFF-02-03	2/3/2017 12:45:00 PM	2/6/2017	Wastewater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
			2/6/2017		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N022961-001B			2/6/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/6/2017		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/6/2017		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N022961-001C			2/6/2017			AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/6/2017		EPA 200.8	TOTAL METALS BY ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/6/2017		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/6/2017			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N022961-001D			2/10/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/10/2017		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N022961-002A	FOLDER	2/6/2017	2/6/2017		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB



800-322-5555 www.gso.com

Ship From
ASSET LABORATORIES
MOLKY BRAR
11110 ARTESIA BLVD. SUITE B
CERRITOS, CA 90703

Tracking #: 534929449

CPS



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

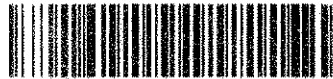
LVS
LAS VEGAS

A

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

C89102A

Delivery Instructions:
HOLD FOR PICK UP
Signature Type: REQUIRED



62438811

Print Date: 2/3/2017 6:06 PM

Package 2 of 4

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.

4.5°C
JR # 2

March 09, 2017

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

TEL:

FAX:

Workorder No.: N023306

RE: SFPP - Norwalk

Attention: Dan Jablonski

Enclosed are the results for sample(s) received on March 03, 2017 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,



Puri Romualdo
Laboratory Director

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



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CLIENT: CH2MHill
Project: SFPP - Norwalk
Lab Order: N023306

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.

Analytical Comments for EPA 200.8:

Lead was reported non-detect (ND) with dilution due to associated internal standard not meeting method criteria possibly due to matrix interference. Sample was analyzed with dilution and internal standard met method criteria. Affected analyte for this failed internal standard were reported at dilution that meet internal standard recovery limit.

RPD for Sample Duplicate (DUP) is outside criteria for zinc; however, the Laboratory Control Sample (LCS) validated the analytical batch.

Analytical Comments for EPA 8260B:

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



CLIENT: CH2MHill
Project: SFPP - Norwalk
Lab Order: N023306
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N023306-001A	EFF-03-03	Wastewater	3/3/2017 12:20:00 PM	3/3/2017	3/9/2017
N023306-001B	EFF-03-03	Wastewater	3/3/2017 12:20:00 PM	3/3/2017	3/9/2017
N023306-001C	EFF-03-03	Wastewater	3/3/2017 12:20:00 PM	3/3/2017	3/9/2017
N023306-001D	EFF-03-03	Wastewater	3/3/2017 12:20:00 PM	3/3/2017	3/9/2017



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 09-Mar-17

CLIENT: CH2MHill
Lab Order: N023306
Project: SFPP - Norwalk
Lab ID: N023306-001

Client Sample ID: EFF-03-03
Collection Date: 3/3/2017 12:20:00 PM
Matrix: WASTEWATER

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

EPA 3510C

EPA 8270C

RunID:	NV00922-MS3_170308A	QC Batch:	61503	PrepDate:	3/8/2017	Analyst:	MDM
Phenol	0.65	0.34	1.0	J	µg/L	1	3/8/2017 06:48 PM
Surr: 1,2-Dichlorobenzene-d4	58.0	0	16-120		%REC	1	3/8/2017 06:48 PM
Surr: 2-Fluorobiphenyl	51.0	0	25-120		%REC	1	3/8/2017 06:48 PM
Surr: 4-Terphenyl-d14	89.0	0	46-132		%REC	1	3/8/2017 06:48 PM
Surr: Phenol-d5	30.0	0	15-120		%REC	1	3/8/2017 06:48 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS8_170305A	QC Batch:	R17VW033	PrepDate:		Analyst:	RB
1,1-Dichloroethane	ND	0.022	0.50		ug/L	1	3/5/2017 05:24 PM
1,2-Dichloroethane	ND	0.064	0.50		ug/L	1	3/5/2017 05:24 PM
Benzene	0.070	0.036	1.0	J	ug/L	1	3/5/2017 05:24 PM
Ethylbenzene	0.080	0.036	1.0	J	ug/L	1	3/5/2017 05:24 PM
m,p-Xylene	0.20	0.024	1.0	J	ug/L	1	3/5/2017 05:24 PM
MTBE	ND	0.062	1.0		ug/L	1	3/5/2017 05:24 PM
o-Xylene	0.070	0.042	1.0	J	ug/L	1	3/5/2017 05:24 PM
Tert-Butanol	ND	0.30	5.0		ug/L	1	3/5/2017 05:24 PM
Toluene	0.28	0.042	2.0	J	ug/L	1	3/5/2017 05:24 PM
Xylenes, Total	ND	1.5	2.0		ug/L	1	3/5/2017 05:24 PM
Surr: 1,2-Dichloroethane-d4	92.7	0	72-119		%REC	1	3/5/2017 05:24 PM
Surr: 4-Bromofluorobenzene	91.0	0	76-119		%REC	1	3/5/2017 05:24 PM
Surr: Dibromofluoromethane	97.6	0	85-115		%REC	1	3/5/2017 05:24 PM
Surr: Toluene-d8	99.0	0	81-120		%REC	1	3/5/2017 05:24 PM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID:	NV00922-GC3_170306A	QC Batch:	61468	PrepDate:	3/6/2017	Analyst:	JJS
TPH-Diesel (C13-C22)	ND	15	25		ug/L	1	3/6/2017 01:18 PM
TPH-Oil (C23-C36)	25	14	25	J	ug/L	1	3/6/2017 01:18 PM
Surr: Octacosane	94.5	0	26-152		%REC	1	3/6/2017 01:18 PM
Surr: p-Terphenyl	89.8	0	57-132		%REC	1	3/6/2017 01:18 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID:	NV00922-GC4_170305A	QC Batch:	E17VW024	PrepDate:		Analyst:	RB
TPH-Gasoline (C4-C12)	25	16	50	J	ug/L	1	3/5/2017 04:53 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: 09-Mar-17

CLIENT: CH2MHill	Client Sample ID: EFF-03-03
Lab Order: N023306	Collection Date: 3/3/2017 12:20:00 PM
Project: SFPP - Norwalk	Matrix: WASTEWATER
Lab ID: N023306-001	

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

EPA 8015B

RunID: NV00922-GC4_170305A	QC Batch: E17VW024	PrepDate:	Analyst: RB
Surr: Chlorobenzene - d5	106 0	74-138	%REC
			1 3/5/2017 04:53 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 245.1

RunID: NV00922-AA1_170306A	QC Batch: 61466	PrepDate: 3/5/2017	Analyst: CEI
Mercury	ND 0.018	0.050	µg/L
			1 3/6/2017 10:12 AM

TOTAL METALS BY ICPMS

EPA 200.8

RunID: NV00922-ICP7_170306A	QC Batch: 61464	PrepDate: 3/4/2017	Analyst: CEI
Copper	ND 0.26	0.50	µg/L
Lead	ND 0.18	2.5	µg/L
Zinc	12 0.27	1.0	µg/L
			1 3/6/2017 10:48 AM

TOTAL TPH

EPA 8015B

RunID: NV00922-GC3_170306A	QC Batch: R113910	PrepDate:	Analyst: JJS
Total TPH	50 16	100	J ug/L
			1 3/6/2017

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: N023306
Project: SFPP - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: MB-61464	SampType: MBLK	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 3/4/2017	RunNo: 113909							
Client ID: PBW	Batch ID: 61464	TestNo: EPA 200.8	Analysis Date: 3/6/2017	SeqNo: 2587245							
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									
Zinc	ND	1.0									

Sample ID: LCS-61464	SampType: LCS	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 3/4/2017	RunNo: 113909							
Client ID: LCSW	Batch ID: 61464	TestNo: EPA 200.8	Analysis Date: 3/6/2017	SeqNo: 2587246							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	10.553	0.50	10.00	0	106	85	115				
Lead	10.044	0.50	10.00	0	100	85	115				
Zinc	102.162	1.0	100.0	0	102	85	115				

Sample ID: N023306-001C-DUP	SampType: DUP	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 3/4/2017	RunNo: 113909							
Client ID: ZZZZZ	Batch ID: 61464	TestNo: EPA 200.8	Analysis Date: 3/6/2017	SeqNo: 2587248							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	ND	0.50						0	0	20	
Zinc	4.950	1.0						12.32	85.4	20	R

Sample ID: N023306-001C-DUP	SampType: DUP	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 3/4/2017	RunNo: 113909							
Client ID: ZZZZZ	Batch ID: 61464	TestNo: EPA 200.8	Analysis Date: 3/6/2017	SeqNo: 2587250							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	2.5						0	0	20	
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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: N023306
Project: SFPP - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: N023306-001C-MS	SampType: MS	TestCode: 200.8_W_SFPP	Units: µg/L	Prep Date: 3/4/2017	RunNo: 113909						
Client ID: ZZZZZZ	Batch ID: 61464	TestNo: EPA 200.8		Analysis Date: 3/6/2017	SeqNo: 2587254						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	8.149	0.50	10.00	0	81.5	75	125				
Zinc	92.320	1.0	100.0	12.32	80.0	75	125				

Sample ID: N023306-001C-MS	SampType: MS	TestCode: 200.8_W_SFPP	Units: µg/L	Prep Date: 3/4/2017	RunNo: 113909						
Client ID: ZZZZZZ	Batch ID: 61464	TestNo: EPA 200.8		Analysis Date: 3/6/2017	SeqNo: 2587257						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	9.775	2.5	10.00	0	97.7	75	125				
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Sample ID: N023306-001C-MSD	SampType: MSD	TestCode: 200.8_W_SFPP	Units: µg/L	Prep Date: 3/4/2017	RunNo: 113909						
Client ID: ZZZZZZ	Batch ID: 61464	TestNo: EPA 200.8		Analysis Date: 3/6/2017	SeqNo: 2587258						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	8.033	0.50	10.00	0	80.3	75	125	8.149	1.43	20
Zinc	91.544	1.0	100.0	12.32	79.2	75	125	92.32	0.845	20

Sample ID: N023306-001C-MSD	SampType: MSD	TestCode: 200.8_W_SFPP	Units: µg/L	Prep Date: 3/4/2017	RunNo: 113909						
Client ID: ZZZZZZ	Batch ID: 61464	TestNo: EPA 200.8		Analysis Date: 3/6/2017	SeqNo: 2587259						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	9.681	2.5	10.00	0	96.8	75	125	9.775	0.959	20
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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: N023306
Project: SFPP - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W_LL

Sample ID: MB-61466	SampType: MBLK	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 3/5/2017	RunNo: 113905						
Client ID: PBW	Batch ID: 61466	TestNo: EPA 245.1		Analysis Date: 3/6/2017	SeqNo: 2586917						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.050

Sample ID: LCS-61466	SampType: LCS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 3/5/2017	RunNo: 113905						
Client ID: LCSW	Batch ID: 61466	TestNo: EPA 245.1		Analysis Date: 3/6/2017	SeqNo: 2586918						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.497 0.050 2.500 0 99.9 85 115

Sample ID: N023306-001C-MS	SampType: MS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 3/5/2017	RunNo: 113905						
Client ID: ZZZZZ	Batch ID: 61466	TestNo: EPA 245.1		Analysis Date: 3/6/2017	SeqNo: 2586919						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.461 0.050 2.500 0 98.4 75 125

Sample ID: N023306-001C-MSD	SampType: MSD	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 3/5/2017	RunNo: 113905						
Client ID: ZZZZZ	Batch ID: 61466	TestNo: EPA 245.1		Analysis Date: 3/6/2017	SeqNo: 2586920						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.618 0.050 2.500 0 105 75 125 2.461 6.18 20

Sample ID: N023306-001C-DUP	SampType: DUP	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 3/5/2017	RunNo: 113905						
Client ID: ZZZZZ	Batch ID: 61466	TestNo: EPA 245.1		Analysis Date: 3/6/2017	SeqNo: 2586921						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.050 0 0 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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 EPA ID CA01638

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 ELAP Cert 2676 | NV Cert NVO0922
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N023306
Project: SFPP - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-61468	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 3/6/2017	RunNo: 113910						
Client ID: PBW	Batch ID: 61468	TestNo: EPA 8015B EPA 3510C		Analysis Date: 3/6/2017	SeqNo: 2587375						
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)	24.673	25									J
Surr: Octacosane	74.475		80.00		93.1	26	152				
Surr: p-Terphenyl	71.207		80.00		89.0	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 |



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N023306
Project: SFPP - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

Sample ID: MB-R113910	SampType: MBLK	TestCode: 8015_W_SFP Units: ug/L	Prep Date:	RunNo: 113910							
Client ID: PBW	Batch ID: R113910	TestNo: EPA 8015B	Analysis Date: 3/6/2017	SeqNo: 2587373							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	59.673	100									J

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 |



ASSET LABORATORIES
ANALYTICAL SERVICES FOR CHEMICAL, ENVIRONMENTAL, AND TOXICOLOGY

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 EPA ID CA01638

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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N023306
Project: SFPP - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID: E170305LCS	SampType: LCS	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 113901							
Client ID: LCSW	Batch ID: E17VW024	TestNo: EPA 8015B	Analysis Date: 3/5/2017	SeqNo: 2586702							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	841.000	50	1000	0	84.1	67	136				
Surr: Chlorobenzene - d5	59283.000		50000		119	74	138				

Sample ID: E170305MB2	SampType: MBLK	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 113901							
Client ID: PBW	Batch ID: E17VW024	TestNo: EPA 8015B	Analysis Date: 3/5/2017	SeqNo: 2586704							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	35.000	50									J
Surr: Chlorobenzene - d5	61720.000		50000		123	74	138				

Sample ID: N023305-001AMS	SampType: MS	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 113901							
Client ID: ZZZZZ	Batch ID: E17VW024	TestNo: EPA 8015B	Analysis Date: 3/5/2017	SeqNo: 2586707							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1736.000	50	1000	794.0	94.2	67	136				
Surr: Chlorobenzene - d5	60811.000		50000		122	74	138				

Sample ID: N023305-001AMSD	SampType: MSD	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 113901							
Client ID: ZZZZZ	Batch ID: E17VW024	TestNo: EPA 8015B	Analysis Date: 3/5/2017	SeqNo: 2586708							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1595.000	50	1000	794.0	80.1	67	136	1736	8.47	30	
Surr: Chlorobenzene - d5	60030.000		50000		120	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 |



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE ENVIRONMENT, ENERGY & WATER

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 EPA ID CA01638

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 3151 W. Post Rd., Las Vegas, NV 89118
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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N023306
Project: SFPP - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: R170305LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113902						
Client ID: LCSW	Batch ID: R17VW033	TestNo: EPA 8260B		Analysis Date: 3/5/2017	SeqNo: 2586750						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	16.570	0.50	20.00	0	82.8	69	133				
1,2-Dichloroethane	19.620	0.50	20.00	0	98.1	69	132				
Benzene	19.460	1.0	20.00	0	97.3	81	122				
Ethylbenzene	18.930	1.0	20.00	0	94.6	73	127				
m,p-Xylene	39.460	1.0	40.00	0	98.6	76	128				
MTBE	16.620	1.0	20.00	0	83.1	65	123				
o-Xylene	19.460	1.0	20.00	0	97.3	80	121				
Tert-Butanol	72.900	5.0	100.0	0	72.9	70	130				
Toluene	18.700	2.0	20.00	0	93.5	77	122				
Xylenes, Total	58.920	2.0	60.00	0	98.2	75	125				
Surr: 1,2-Dichloroethane-d4	23.250		25.00		93.0	72	119				
Surr: 4-Bromofluorobenzene	24.440		25.00		97.8	76	119				
Surr: Dibromofluoromethane	23.830		25.00		95.3	85	115				
Surr: Toluene-d8	24.800		25.00		99.2	81	120				

Sample ID: R170305MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113902						
Client ID: PBW	Batch ID: R17VW033	TestNo: EPA 8260B		Analysis Date: 3/5/2017	SeqNo: 2586753						
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	0.200	2.0									J
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	22.880		25.00		91.5	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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EPA ID CA01638

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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
 Work Order: N023306
 Project: SFPP - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: R170305MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113902						
Client ID: PBW	Batch ID: R17VW033	TestNo: EPA 8260B	Analysis Date: 3/5/2017	SeqNo: 2586753							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	22.090		25.00		88.4	76	119				
Surr: Dibromofluoromethane	24.000		25.00		96.0	85	115				
Surr: Toluene-d8	24.000		25.00		96.0	81	120				

Sample ID: N023306-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113902						
Client ID: ZZZZZ	Batch ID: R17VW033	TestNo: EPA 8260B	Analysis Date: 3/5/2017	SeqNo: 2586755							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	15.270	0.50	20.00	0	76.4	69	133				
1,2-Dichloroethane	18.510	0.50	20.00	0	92.6	69	132				
Benzene	19.010	1.0	20.00	0.07000	94.7	81	122				
Ethylbenzene	19.220	1.0	20.00	0.08000	95.7	73	127				
m,p-Xylene	39.530	1.0	40.00	0.2000	98.3	76	128				
MTBE	14.220	1.0	20.00	0	71.1	65	123				
o-Xylene	19.020	1.0	20.00	0.07000	94.8	80	121				
Tert-Butanol	61.110	5.0	100.0	0	61.1	70	130				S
Toluene	18.410	2.0	20.00	0.2800	90.7	77	122				
Xylenes, Total	58.550	2.0	60.00	0	97.6	75	125				
Surr: 1,2-Dichloroethane-d4	20.460		25.00		81.8	72	119				
Surr: 4-Bromofluorobenzene	24.400		25.00		97.6	76	119				
Surr: Dibromofluoromethane	22.860		25.00		91.4	85	115				
Surr: Toluene-d8	24.430		25.00		97.7	81	120				

Sample ID: N023306-001AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113902						
Client ID: ZZZZZ	Batch ID: R17VW033	TestNo: EPA 8260B	Analysis Date: 3/5/2017	SeqNo: 2586756							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	15.990	0.50	20.00	0	80.0	69	133	15.27	4.61	20	
1,2-Dichloroethane	19.160	0.50	20.00	0	95.8	69	132	18.51	3.45	20	
Benzene	19.140	1.0	20.00	0.07000	95.4	81	122	19.01	0.682	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 SERVICES FOR THE ENVIRONMENTAL INDUSTRY

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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N023306
Project: SFPP - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N023306-001AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113902						
Client ID: ZZZZZ	Batch ID: R17VW033	TestNo: EPA 8260B		Analysis Date: 3/5/2017	SeqNo: 2586756						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	19.130	1.0	20.00	0.08000	95.2	73	127	19.22	0.469	20	
m,p-Xylene	39.400	1.0	40.00	0.2000	98.0	76	128	39.53	0.329	20	
MTBE	15.480	1.0	20.00	0	77.4	65	123	14.22	8.48	20	
o-Xylene	19.280	1.0	20.00	0.07000	96.0	80	121	19.02	1.36	20	
Tert-Butanol	69.470	5.0	100.0	0	69.5	70	130	61.11	12.8	20	S
Toluene	18.650	2.0	20.00	0.2800	91.8	77	122	18.41	1.30	20	
Xylenes, Total	58.680	2.0	60.00	0	97.8	75	125	58.55	0.222	20	
Surr: 1,2-Dichloroethane-d4	21.430		25.00		85.7	72	119		0		
Surr: 4-Bromofluorobenzene	24.910		25.00		99.6	76	119		0		
Surr: Dibromofluoromethane	22.630		25.00		90.5	85	115		0		
Surr: Toluene-d8	24.400		25.00		97.6	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 |
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ASSET LABORATORIES
ANALYTICAL SERVICES FOR CHEMICAL, ENVIRONMENTAL, AND FORENSIC LABORATORIES

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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N023306
Project: SFPP - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270WATER_SIMEXT

Sample ID: LCS-61503	SampType: LCS	TestCode: 8270WATER_ Units: µg/L	Prep Date: 3/8/2017	RunNo: 113984							
Client ID: LCSW	Batch ID: 61503	TestNo: EPA 8270C EPA 3510C	Analysis Date: 3/8/2017	SeqNo: 2590472							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	6.580	1.0	6.000	0	110	24	120				
Surr: 1,2-Dichlorobenzene-d4	0.860		1.000		86.0	16	120				
Surr: 2-Fluorobiphenyl	0.580		1.000		58.0	25	120				
Surr: 4-Terphenyl-d14	0.860		1.000		86.0	46	132				
Surr: Phenol-d5	0.460		1.000		46.0	15	120				

Sample ID: LCS-61503	SampType: LCS	TestCode: 8270WATER_ Units: µg/L	Prep Date: 3/8/2017	RunNo: 113984							
Client ID: LCS02	Batch ID: 61503	TestNo: EPA 8270C EPA 3510C	Analysis Date: 3/8/2017	SeqNo: 2590472							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	6.590	1.0	6.000	0	110	24	120	6.580	0.152	20	
Surr: 1,2-Dichlorobenzene-d4	0.830		1.000		83.0	16	120		0		
Surr: 2-Fluorobiphenyl	0.550		1.000		55.0	25	120		0		
Surr: 4-Terphenyl-d14	0.810		1.000		81.0	46	132		0		
Surr: Phenol-d5	0.430		1.000		43.0	15	120		0		

Sample ID: MB-61503	SampType: MBLK	TestCode: 8270WATER_ Units: µg/L	Prep Date: 3/8/2017	RunNo: 113984							
Client ID: PBW	Batch ID: 61503	TestNo: EPA 8270C EPA 3510C	Analysis Date: 3/8/2017	SeqNo: 2590474							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	0.960	1.0									J
Surr: 1,2-Dichlorobenzene-d4	0.620		1.000		62.0	16	120				
Surr: 2-Fluorobiphenyl	0.630		1.000		63.0	25	120				
Surr: 4-Terphenyl-d14	0.850		1.000		85.0	46	132				
Surr: Phenol-d5	0.470		1.000		47.0	15	120				

Qualifiers:

- | | | |
|----------------------------------------------------------------|----------------------------------------|------------------------------------------------------|
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ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE ENVIRONMENTAL SCIENCE

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"Serving Clients with Passion and Professionalism"

DATE: 3/3/17
 PAGE: 1 of 1

Section A		Section B		Section C		Section D	
Required Client Information:		Required Project Information:		Invoice Information:		Sampler Information:	
Company: Kinder Morgan Energy Partners Attention: Steve Defibaugh	Report To: Dan Jablonski	Attention: Steve Defibaugh - Ref. AFE# 81195	Company Name: Kinder Morgan Energy Partners	Sampler Name: James Dye			
Address: 1100 Town & Country Road Orange, CA 92868	Copy To: Steve Defibaugh	Address: 1100 Town & Country Road Orange, CA 92868	ATL Project Manager: Marlon Cartin	Signature: <u>James Dye</u>			
Email To: steve_defibaugh@kinder.org daniel.jablonski@st2m.com	Purchase Order No.:		Date: <u>3/3/17</u>				
Phone: 714-560-4802 Fax: 714-560-4801	Project Name: SEPP Norwalk						

Section E		Required Sample Information		CONTAINER TYPE		A	V																	
ITEM #	SAMPLE ID	LOCATION/ DESCRIPTION	MATRIX	SAMPLE TYPE (G-GRAB C-COMP)	DATE	TIME	TOTAL # OF CONTAINERS	SAMPLE TEMPERATURE (°F)	# OF CONTAINERS		PRESERVATIVE		VOLUME (mL)	Analysis Test										
									Z	B	-	H		TPH-L, TPH-d, and TPH-ul, Total TPH (80756)	BTEX, 1,1-DCA, 1,2-DCA, MTBE, TBA (80808)	Cu, Pb, Zn (200.8)	Hg (245.1)	Phenol (8270)						
1	EFF-03-05	EFFLUENT	WW	G	3/3/17	1220	1	70	X	X	X	X	X	N023306-01										pH = 7.9
2																								Report total Xylenes
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Relinquished by (Signature and Printed Name): M. Cartin Date / Time: 3/3/17 1420	Relinquished by (Signature and Printed Name): M. Cartin Date / Time: 3/3/17 1454	Turn Around Time (TAT): <input type="checkbox"/> A = Same Day <input checked="" type="checkbox"/> B = 24 Hours <input type="checkbox"/> C = 48 Hours <input type="checkbox"/> D = 72 Hours <input checked="" type="checkbox"/> E = 5 Workdays <input type="checkbox"/> F = 10 Workdays TAT Starts at 8 AM the following day if samples received after 3:00 PM.	Special instruction: 4.22 SR# 2 GSD # : 2946
Relinquished by (Signature and Printed Name): M. Cartin Date / Time: 3/3/17 1700	Relinquished by (Signature and Printed Name): Joana Rodriguez Date / Time: 3/4/17 8:20		
Relinquished by (Signature and Printed Name): M. Cartin Date / Time: 3/3/17 1700	Relinquished by (Signature and Printed Name): M. Cartin Date / Time: 3/3/17 1700		

Matrix:			Preservatives:			Container Type:				
W = Water	WW = Wastewater		H = HCl	N = HNO3	S = H2SO4	T = Tube	V = VOA	P = Pint	A = Amber	
O = Oil	P = Product	S = Soil	Z = Zn(AC)2	O = NaOH	T = Na2S2O3	J = Jar	B = Tedlar	G = Glass		
Others/Specify:			Others/Specify:			M = Metal			P = Plastic	C = Can

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: 3/3/2017 Workorder: N023306
 Rep sample Temp (Deg C): 4.2 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 2946 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: YR YR 3/4/2017

Reviewed By: ABC 3/6/2017

ASSET Laboratories

WORK ORDER Summary

04-Mar-17

WorkOrder: N023306

Client ID: CH2HI03

Project: SFPP - Norwalk

QC Level: RTNE

Date Received: 3/3/2017

Comments: Report phenols, TPH and VOCs preliminary on a 24-hour TAT. Report Total Xylenes. pH 7.4

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N023306-001A	EFF-03-03	3/3/2017 12:20:00 PM	3/6/2017	Wastewater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
			3/6/2017		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N023306-001B			3/6/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			3/6/2017		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			3/6/2017		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N023306-001C			3/6/2017			AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			3/6/2017		EPA 200.8	TOTAL METALS BY ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			3/6/2017		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			3/6/2017			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N023306-001D			3/10/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			3/10/2017		EPA 8270C <i>SIM</i>	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N023306-002A	FOLDER	3/6/2017	3/6/2017		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

ABC 3/6/2017



800-322-5555 www.gso.com

Ship From

ASSET LABORATORIES
MOLKY BRAR
11110 ARTESIA BLVD. SUITE B
CERRITOS, CA 90703

Tracking #: 535252946

SDS



Ship To

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

LVS
LAS VEGAS

A

COD: \$0.00

Weight: 0 lb(s)

Reference:

C89102A

Delivery Instructions:

HOLD FOR PICK UP

Signature Type: REQUIRED



63633007

Print Date: 3/3/2017 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.

4.20
FL #2

Attachment B
Waste Manifests

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

Form Approved. OMB No. 2

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number CAT080033962	2. Page 1 of 1	3. Emergency Response Phone 800-624-9136	4. Manifest Tracking Number 015282817 JJ
-----------------------------------------	-----------------------------------------------	--------------------------	----------------------------------------------------	----------------------------------------------------

5. Generator's Name and Mailing Address SFPP I P (NORWALK STATION) 1100 TOWN AND COUNTRY RD. ORANGE CA 92868	Generator's Site Address (if different than mailing address) 15306 NORWALK BLVD. NORWALK, CA 90651
Generator's Phone: 714-560-4887	

6. Transporter 1 Company Name PATRIOT ENVIRONMENTAL SERVICES	U.S. EPA ID Number CAD053866794
7. Transporter 2 Company Name	U.S. EPA ID Number

8. Designated Facility Name and Site Address CROSBY & OVERTON 1630 WEST 17 TH STREET LONG BEACH CA 90813	U.S. EPA ID Number CAD028409019
Facility's Phone: 800-827-6729	

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	1. RQ, NA3077, HAZARDOUS WASTE SOLID, N.O.S., (ARSENIC), 9, PGIII (D004)	01	DM	100	P	D004	611
	2.						
	3.						
	4.						

14. Special Handling Instructions and Additional Information
WEAR APPROPRIATE PPE WHILE HANDLING PROFILE#: 103806 - CONTAMINATED SOIL WITH ARSENIC PATRIOT JOB#:

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: **JAMES DYK** Signature: _____ Month: **02** Day: **08**

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: **Ernesto Villacres** Signature: _____ Month: _____ Day: _____

Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____

18. Discrepancy

18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____

Facility's Phone: _____

18c. Signature of Alternate Facility (or Generator) _____ Month: _____ Day: _____

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: _____

GENERATOR
TRANSPORTER INT'L
DESIGNATED FACILITY

167-BLC-O 6 10495

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CAT080033962	2. Page 1 of 1	3. Emergency Response Phone 800-535-5053	4. Manifest Tracking Number 014831432 JJK		
5. Generator's Name and Mailing Address SFPP, L.P. 1100 TOWN AND COUNTRY ROAD ORANGE, CA 92868 USA				Generator's Site Address (if different than mailing address) 15306 NORWALK BLVD NORWALK, CA 90650 USA			
Generator's Phone: 714-560-4887							
6. Transporter 1 Company Name ECTI 953 REECE ST. SAN BERNARDINO CA 92411 909-884-7424				U.S. EPA ID Number CAR000049064			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address US ECOLOGY HIGHWAY 95 -12 MILES SOUTH OF BEATTY BEATTY, NV 89003 USA				U.S. EPA ID Number NVT330010000			
Facility's Phone: 800-239-3943							
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				
1.	R.Q. NA3077, HAZARDOUS WASTE SOLID, N.O.S.(LEAD)9, PGIII(D008)	1	CM 40	40	Y	181	D008
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information NORTHSTAR ENVIRONMENTAL REMEDIATION #15599 11A. PROFILE#070249944-0 LEAD CONTAINING MATERIAL APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT WHILE HANDLING. EMERGENCY CONTACT *INFOTRACACCOUNT #73782							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name JAMES DYE				Signature 		Month Day Year 2 2 17	
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 Fred Hernandez				Signature 		Month Day Year 2 2 17	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
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							
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ 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	

US Ecology, Inc. Land Disposal Restriction Form



GENERATOR: SFPP, L.P. EPA I.D. NUMBER: CAT080033962
 WASTE STREAM or PROFILE NUMBER: 070249944-0 MANIFEST DOC. NO. 014831432JJK LINE NO. _____

WASTE IS A: WASTEWATER NON-WASTEWATER DEBRIS

NOTIFICATION FREQUENCY: ONE TIME REQUIRED WITH EACH SHIPMENT

EPA WASTE CODES (from 40 CFR 268.40) D008 _____

UHC's (Underlying Hazardous Constituents 40 CFR 268.48)? No Yes - List: _____

A. Restricted Waste Meets Treatment Standards (40 CFR 268.7(a) (3))

The restricted waste identified above meets the treatment standards in 40 CFR 268.40 or Alternative LDR treatment standards for contaminated soil 40CFR268.49 and can be landfill disposed without further treatment. I have attached all supporting analytical data, where available.

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

B. Restricted Waste Treated To Treatment Standards (40 CFR 268.7(b) (1) & 268.7 (b) (2))

The treatment residue, or extract of such residue, or the restricted waste identified above has been tested to assure that the treatment residues or extract meet all applicable treatment standards in 40 CFR 268.40 and/or performance standards in 40 CFR 268.45. I have attached all supporting analytical data, where available.

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

C. Restricted Waste With Technology Based Treatment Standards (40 CFR 268.7(b) (4))

I certify under penalty of law that I personally have examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that based on my inquiry of those individuals immediately responsible for obtaining this information. I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40, without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

D. Restricted Waste Decharacterized But Requires Treatment For UHC (40 CFR 268.9)

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains Underlying Hazardous Constituents (UHC) that require further treatment to meet the universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

E. Restricted Waste Subject To Treatment (40 CFR 268.7(a) (2))

The restricted waste identified above must be treated to the applicable treatment standards in 40 CFR 268.40, or treated to comply with applicable prohibitions set forth in Part 268.32 or RCRA Section 3004(d). I have attached all supporting analytical data, where available.

F. Hazardous Debris Subject To Treatment (40 CFR 268.45)

This hazardous debris identified above must be treated to the alternative treatment standards in 40 CFR 268.45.

G. Restricted Waste Subject To A Variance or Extension (40 CFR 268.7(a) (4))

This restricted waste identified above is subject to a case by case exemption under 40 CFR 268.5, an exemption under 40 CFR 268.6 or a nationwide capacity variance under Subpart C of 40 CFR 268, and is not prohibited from land disposal. LDR prohibitions become effective on _____ (date) for this restricted waste. The corresponding treatment standard(s) are promulgated in 40 CFR 268.40. I have attached all supporting analytical data, where available.

H. Restricted Waste Managed In A "Lab Pack" (40 CFR 268.7(a) (9))

I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only waste that have been excluded under appendix IV to 40 CFR Part 268 and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

I certify and warrant that the information that appears on this form, and appended documents, is true and correct. I have correctly indicated how my waste is to be managed in accordance with 40 CFR 268. My certification is based on personal examination of the information submitted, or is based on my inquiries of those individuals responsible for obtaining the information.

Authorized Signature _____ Title EHS TRClt Date 2/21/17