



SFPP, L.P.
Operating Partnership

November 13, 2018

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

Re: Effluent Monitoring Report
July through September 2018
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 Third Quarter 2018 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 13 day of November 2018.
at 4:17 p.m.

A handwritten signature in blue ink, appearing to read 'Stephen T. Defibaugh', is written over a horizontal line.

_____ (signature)

Stephen T. Defibaugh (printed name)

Remediation Project Manager (title)

Mr. Stephen Defibaugh
Kinder Morgan, Inc.
1100 Town and Country Road, Suite 700
Orange, California 92868

November 13, 2018

**Subject: Effluent Monitoring Report, July 1 to September 30, 2018 (Third Quarter 2018)
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), now a wholly owned subsidiary of Jacobs Engineering Group Inc. (Jacobs), on behalf of Kinder Morgan, Inc. (Kinder Morgan), to summarize National Pollutant Discharge Elimination System (NPDES) monitoring related to the discharge of treated groundwater from Kinder Morgan's product recovery and groundwater extraction (GWE) system. This system is located at the SFPP, L.P. (SFPP) Norwalk Pump Station within the Defense Fuel Support Point Norwalk (DFSP), at 15306 Norwalk Boulevard, Norwalk, California (the site; Figure 1).

This report describes NPDES monitoring activities during the period of July 1 to September 30, 2018. Kinder Morgan performed operations, maintenance, and monitoring tasks on the product recovery and GWE systems. This report has been prepared based on the NPDES monitoring conducted by Kinder Morgan.

Remediation Systems

Kinder Morgan operates remediation systems consisting of soil vapor extraction (SVE), total fluids extraction (TFE) of free product and/or groundwater using a top-loading pump, GWE 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.

The remedial objectives 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/GWE 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)
 - 5 TFE/GWE wells
 - 3 SVE wells (collocated with TFE wells)
 - 1 horizontal biosparge well (not yet operable).

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

Soil Vapor Extraction System

SVE is performed using a blower to remove soil vapors from the south-central and southeastern areas of the site. The extracted vapors are conveyed to a knock-out tank that separates entrained moisture from the soil vapor. 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 volatile organic compounds (VOCs) are converted to carbon dioxide and water prior to being discharged to the atmosphere. Operation of the GWTS and SVE systems is conducted in accordance with Permits to Operate (Permit Numbers [Nos.] G46188 A/N 578779 and G46187 A/N 578777, respectively; ID 110835) issued by the South Coast Air Quality Management District.

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 a dissolved air floatation oil-water separator (DAF/OWS). Free product, if any, from the DAF/OWS is collected in a storage tank and transported to 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 installed downstream of the equalization tank treat fuel oxygenates such as tertiary butyl alcohol and methyl tertiary butyl ether. 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 the NPDES permit (Permit No. CA0063509; Order No. R4-2016-0309), which was adopted on September 7, 2016, and became effective on November 1, 2016.

Horizontal Biosparge System

Kinder Morgan completed installation of a horizontal biosparge system in the south-central area of the site in 2014. 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 (bgs). The lateral length of the screen 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 *Horizontal Biosparge Well and Soil Vapor Monitoring Probe Completion Report* (CH2M, 2015¹).

Biosparging involves introducing air into the groundwater in situ to enhance biodegradation of VOCs present in product and groundwater. The biosparge compressor delivers ambient air to the biosparge well at a maximum design rate of approximately 500 standard cubic feet per minute. Vapors generated by the biosparge well are captured by the SVE system. The SVE system has an interlock that prevents the biosparge system from turning on unless the SVE system is operating. Operation of the SVE system reduces the potential for off-gassing of VOCs during biosparge operations.

A second horizontal biosparge well was installed in the southeastern area of the site in November 2017. The design of the second biosparge well is similar to the south-central biosparge well: 4-inch-diameter Schedule 80 PVC casing and screen completed to a depth of approximately 45 feet bgs. The lateral length of the screen is 240 feet centered below the southeastern area hydrocarbon plume. A construction completion report documenting construction activities and specifications was submitted to the Regional

¹ CH2M HILL Engineers Inc. (CH2M). 2015. *Horizontal Biosparge Well and Soil Vapor Monitoring Probe Completion Report, SFPP Norwalk Pump Station, 15306 Norwalk Boulevard, Norwalk, California*. February 18.

Water Quality Control Board (Water Board) on July 12, 2018 (Jacobs, 2018²). A second biosparge compressor will be installed in the fourth quarter 2018 to deliver ambient air to the new biosparge well. The air compressor will be appropriately sized to allow for future system expansion.

A summary of the GWTS operations during the reporting period is presented below. Operations of the SVE and biosparge systems are presented separately in quarterly remediation progress reports that are provided to the Water Board and Restoration Advisory Board (RAB).

Summary of Quarterly Groundwater Treatment System Operations

A total of 1,021,192 gallons of groundwater was extracted from the south-central and southeastern areas, treated, and discharged to Coyote Creek during the third quarter 2018. Wells that were in operation included MW-SF-3, MW-SF-15, GMW-9, GMW-10, GMW-O-11, GMW-O-20, and GMW-O-23 in the south-central area, and GMW-O-15, GMW-36, and GMW-SF-9 in the southeastern area. No groundwater was extracted from the West Side Barrier area during this period. Table 1 summarizes the average daily flow rate during the reporting period. The GWTS operated throughout the quarter, with the following exceptions:

- The GWTS shut down on August 20, 2018, due to the level switches at the DAF containment pad and the 300-gallon equalization tank. The GWTS was off the majority of the time from August 20 to 29, 2018. The GWTS was turned on periodically during that time to troubleshoot the system. Redundant high-level switches were added in the event that the primary level switches do not operate. The system was restarted on August 30, 2018.

No free product accumulated in the product holding tank of the GWTS during the third quarter 2018. In addition, hand bailing of free product (from wells not equipped for TFE) was not performed during this reporting period because free product was not detected in the wells.

Routine Effluent Monitoring

During the third quarter 2018, 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 analyses.

All compliance samples were shipped to Asset Laboratories in Las Vegas, Nevada, for analysis. Asset Laboratories sent samples to BC Laboratories, Inc. in Bakersfield, California, for biochemical oxygen demand and ammonia as nitrogen analysis. The samples were analyzed in accordance with current U.S. Environmental Protection Agency (EPA) methods or as specified in the WDRs for the site. The laboratory reports are included in Attachment A. A data quality assurance/quality control evaluation conducted by Jacobs is included in Attachment B.

Summary of Compliance Results

Monthly and Quarterly Sampling

Effluent daily flow rates are presented in Table 1. All daily flows were below the permit maximum discharge limit of 150,000 gallons per day. Analytical results for the July, August, and September 2018 effluent sampling events are summarized in Table 2. The effluent samples (EFF-001) were collected after the secondary polishing LGAC vessel, prior to discharge into the storm drain at the site. The results were compared with the maximum daily and average monthly 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. Laboratory analytical reports and chain-of-custody documents are included in Attachment A. The mass emission (in pounds per day) is calculated by multiplying the daily effluent flow measured during the

² Jacobs Engineering Group Inc. (Jacobs). 2018. *Southeastern Horizontal Biosparge Well (BS-02) Completion Report, SFPP Norwalk Pump Station, 15306 Norwalk Boulevard, Norwalk, California*. July 12.

day of the sampling event (in million gallons per day) by the concentration of the analyte (milligrams per liter) and the conversion factor of 8.34, as required by the discharge permit. If the analyte was not detected in the sample, the concentration used is half of the method detection limit.

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 daily flow rate in Coyote Creek, which is based on data from the Los Angeles County Department of Public Works flow gauge station F354-R, is presented in Table 3. Based on these data, the July, August, and September 2018 sampling events, with maximum daily flows less than 27 cfs, all occurred during dry weather conditions. Therefore, the analytical results for July, August, and September 2018 are compared to dry weather discharge limits.

Waste Handling

On July 26, 2018, approximately 800 gallons of hazardous wastewater from well redevelopment were removed from the site by Patriot Environmental Services of 508 East E. Street, Unit A, Wilmington, California 90744. The waste was transported under manifest to DK DBA World Oil Recycling at 2000 N. Alameda Street, Compton, California 90222.

On August 28, 2018, approximately 2,800 gallons of hazardous waste liquids from the DAF pad cleaning were removed from the site by Patriot Environmental Services of 508 East E. Street, Unit A, Wilmington, California 90744. The waste was transported to DK DBA World Oil Recycling at 2000 N. Alameda Street, Compton, California 90222.

On September 20, 2018, approximately 80 pounds of nonhazardous gloves, rags, and debris; approximately 300 pounds of nonhazardous soil from soil investigation; and 80 pounds of nonhazardous bag filters were removed from the site by Clean Harbors Environmental Service Inc. of 1737 East Denni Street, Wilmington, California 90744. The waste was transported to Clean Harbors Wilmington LLC. at 1737 East Denni Street, Wilmington, California 90744.

On September 20, 2018, approximately 40 pounds of nonhazardous decontamination water were removed from the site by Clean Harbors Environmental Service Inc. of 1737 East Denni Street, Wilmington, California 90744. The waste was transported to Clean Harbors San Jose LLC. at 1021 Berryessa Road, San Jose, California 95133.

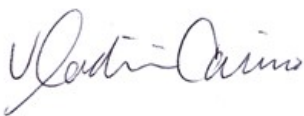
On September 20, 2018, approximately 80 pounds of non-Resource Conservation and Recovery Act (RCRA) hazardous waste spent bag filters were removed from the site by Clean Harbors Environmental Service Inc. of 1737 East Denni Street, Wilmington, California 90744. The waste was transported to Clean Harbors Wilmington LLC. at 1737 E Denni Street, Wilmington, California 90744.

Copies of the waste manifests are included in Attachment C.

Should you require any further information, please contact Vladimir Carino at (949) 224-7548.

Regards,

Jacobs Engineering Group Inc.



Vladimir Carino
Project Engineer

Attachments:

Table 1 – Effluent Flow Rate Measurements, Third Quarter 2018
Table 2 – NPDES Effluent Monitoring, Third Quarter 2018
Table 3 – Maximum Daily Flow in Coyote Creek, Third Quarter 2018

Figure 1 – Site Location Map
Figure 2 – Remediation System Layout

Attachment A – Laboratory Analytical Reports, Chain-of-Custody Documents, and Field Measurements
Attachment B – Data Quality Assurance/Quality Control
Attachment C – Waste Manifests

Tables

Table 1. Effluent Flow Rate Measurements, Third Quarter 2018*SFPF Norwalk Pump Station, Norwalk, California*

Date	Average Flow Rate (gpd) (Maximum Daily Discharge Limit = 150,000 gpd ^a)
07/01/18	692
07/02/18	756
07/03/18	4,856
07/04/18	7,164
07/05/18	7,284
07/06/18	7,012
07/07/18	6,442
07/08/18	6,080
07/09/18	5,738
07/10/18	6,102
07/11/18	8,438
07/12/18	7,328
07/13/18	9,518
07/14/18	8,510
07/15/18	8,504
07/16/18	8,572
07/17/18	9,988
07/18/18	12,264
07/19/18	8,598
07/20/18	7,934
07/21/18	7,780
07/22/18	974
07/23/18	3,598
07/24/18	6,884
07/25/18	3,732
07/26/18	6,574
07/27/18	12,406
07/28/18	18,156
07/29/18	18,276
07/30/18	18,094
07/31/18	16,024
08/01/18	17,466
08/02/18	16,868
08/03/18	15,586
08/04/18	12,730
08/05/18	14,368
08/06/18	15,716
08/07/18	15,068
08/08/18	16,826
08/09/18	17,034
08/10/18	16,586
08/11/18	16,568
08/12/18	16,496
08/13/18	16,442
08/14/18	16,332
08/15/18	16,292
08/16/18	15,160
08/17/18	16,662
08/18/18	15,266
08/19/18	2,804
08/20/18	0
08/21/18	4,820
08/22/18	0
08/23/18	326
08/24/18	0
08/25/18	0
08/26/18	0

Table 1. Effluent Flow Rate Measurements, Third Quarter 2018*SFPP Norwalk Pump Station, Norwalk, California*

Date	Average Flow Rate (gpd) (Maximum Daily Discharge Limit = 150,000 gpd ^a)
08/27/18	0
08/28/18	342
08/29/18	0
08/30/18	5,252
08/31/18	18,900
09/01/18	17,558
09/02/18	16,302
09/03/18	16,300
09/04/18	13,892
09/05/18	18,208
09/06/18	14,756
09/07/18	17,440
09/08/18	12,184
09/09/18	14,038
09/10/18	15,930
09/11/18	16,968
09/12/18	18,020
09/13/18	15,994
09/14/18	15,726
09/15/18	15,216
09/16/18	14,920
09/17/18	14,894
09/18/18	14,216
09/19/18	14,270
09/20/18	14,538
09/21/18	14,176
09/22/18	13,698
09/23/18	13,472
09/24/18	13,192
09/25/18	16,820
09/26/18	13,464
09/27/18	13,100
09/28/18	12,680
09/29/18	12,598
09/30/18	12,434

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

gpd = gallons per day

Table 2. NPDES Effluent Monitoring, Third Quarter 2018

SFPF Norwalk Pump Station, Norwalk, California

Analyte	Sampling Frequency	Analytical Method	Units	MDL ^c	RL ^c	ML ^a	7/12/2018	8/3/2018	8/16/2018	9/7/2018	Discharge Limits ^b	
											Monthly Average	Daily Maximum
Flow	Daily	--	gpd	--	--	--	7,328	15,586	15,160	17,440	--	150,000
TPH as gas (C4-C12)	Monthly	EPA 8015B	µg/L	16	50	NE	<42	<27	--	<35	--	--
TPH as Diesel (C13-C22)	Monthly	EPA 8015B	µg/L	16	26	NE	17 J	<16	--	<18	--	--
TPH as Oil (C23+)	Monthly	EPA 8015B	µg/L	14	26	NE	<30	33	--	<17	--	--
Total TPH	Monthly	EPA 8015B	µg/L	16	100	NE	17 J	33 J	--	<70	--	100
Total TPH	Monthly	Calculated	lbs/day	--	--	--	0.001039	0.00429	--	0.005091	--	0.13
Benzene	Monthly	EPA 8260B	µg/L	0.34	1	2.0	<0.34	<0.34	--	<0.34	--	--
1,1-Dichloroethane	Monthly	EPA 8260B	µg/L	0.45	0.5	1.0	<0.45	<0.45	--	<0.45	--	--
1,2-Dichloroethane	Monthly	EPA 8260B	µg/L	0.29	0.5	2.0	<0.29	<0.29	--	<0.29	--	--
Ethylbenzene	Monthly	EPA 8260B	µg/L	0.31	1.0	2.0	<0.31	<0.31	--	<0.31	--	--
Phenol	Monthly	EPA 8270C	µg/L	0.34	1.0	1	<0.33	--	<0.34	<0.33	--	--
Toluene	Monthly	EPA 8260B	µg/L	0.46	2.0	2.0	<0.46	<0.46	--	<0.46	--	--
Methyl tertiary-butyl ether	Monthly	EPA 8260B	µg/L	0.34	1.0	NE	<0.34	<0.34	--	<0.34	--	--
Tertiary butyl alcohol	Monthly	EPA 8260B	µg/L	2.4	5.0	NE	<2.4	<2.4	--	<2.4	--	--
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 J	<0.26	--	<0.26 J	9.7	32
Copper (total recoverable) (dry weather)	Monthly	Calculated	lbs/day	--	--	--	0.000008	0.000017	--	0.000019	0.012	0.04
Copper (total recoverable) (wet weather)	Monthly	EPA 200.8	µg/L	0.26	0.5	0.5	<0.26 J	<0.26	--	<0.26 J	8.3	27
Copper (total recoverable) (wet weather)	Monthly	Calculated	lbs/day	--	--	--	0.000008	0.000017	--	0.000019	0.010	0.034
Lead (total recoverable) (wet weather)	Monthly	EPA 200.8	µg/L	0.13	0.5	0.5	<0.13	<0.13	--	<0.13	33	106
Lead (total recoverable) (wet weather)	Monthly	Calculated	lbs/day	--	--	--	0.000004	0.000008	--	0.000009	0.041	0.13
Mercury (total recoverable)	Monthly	EPA 245.1	µg/L	0.018	0.1	0.2	<0.018	<0.018	--	0.024 J	0.051	0.10
Mercury (total recoverable)	Monthly	Calculated	lbs/day	--	--	--	0.000001	0.000001	--	0.000003	6.4E-05	1.3E-04
Zinc (total recoverable) (dry weather)	Monthly	EPA 200.8	µg/L	0.27	1.0	1.0	<0.27	<0.27	--	<0.27	64	220
Zinc (total recoverable) (dry weather)	Monthly	Calculated	lbs/day	--	--	--	0.000008	0.000018	--	0.00002	0.080	0.28
Zinc (total recoverable) (wet weather)	Monthly	EPA 200.8	µg/L	0.27	1.0	1.0	<0.27	<0.27	--	<0.27	46	158
Zinc (total recoverable) (wet weather)	Monthly	Calculated	lbs/day	--	--	--	0.000008	0.000018	--	0.00002	0.058	0.2
BOD	Quarterly	SM 5210B	mg/L	1.5	1.5	NE	2.8	--	--	--	20	30
BOD	Quarterly	Calculated	lbs/day	--	--	--	0.171123	--	--	--	25	38
Total Suspended Solids	Quarterly	SM 2540D	mg/L	10	10.00	NE	<10	--	--	--	50	75
Total Suspended Solids	Quarterly	Calculated	lbs/day	--	--	--	0.305578	--	--	--	63	94
pH	Quarterly	--	s.u.	--	--	NE	7.4	--	--	--	--	6.5/8.5
Oil and Grease	Quarterly	EPA 1664A	mg/L	0.74	4.50	NE	<0.74	--	--	--	10	15
Oil and Grease	Quarterly	Calculated	lbs/day	--	--	--	0.022613	--	--	--	13	19
Ammonia Nitrogen (as N)	Quarterly	SM 4500NH3G	mg/L	0.078	0.20	NE	0.082 J	--	--	--	--	--
Settleable Solids	Quarterly	SM 2540F	mL/L/hr	0.093	0.09	NE	<0.093	--	--	--	0.1	0.3
Temperature	Quarterly	Temperature	°F	--	--	NE	72.5	78	--	--	--	86
Turbidity	Quarterly	SM 2130B	NTU	0.1	0.10	NE	0.15	--	--	--	50	75
Salinity	2x/year	SM 2520B	ppt	--	--	NE	--	--	--	--	--	--
Chronic Toxicity	2x/year	--	PASS/FAIL	--	--	NE	--	--	--	--	Pass	Pass and % Effect <50
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	Annually	--	See Table 3	--	--	--	--	--	--	--	--	--

Table 2. NPDES Effluent Monitoring, Third Quarter 2018

SFPD 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.

-- = not measured or not analyzed

< = not detected above the MDL

° F = degrees Fahrenheit

µg/L = micrograms per liter

EPA = U.S. Environmental Protection Agency

gpd = gallons per day

J = detected at a concentration below the RL and above the MDL; reported value is estimated

lbs/day = pounds per day

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

NPDES = National Pollutant Discharge Elimination System

NTU = nephelometric turbidity unit(s)

pg/L = picograms per liter

ppt = parts per trillion

s.u. = standard unit(s)

TPH = total petroleum hydrocarbons

Table 3. Maximum Daily Flow in Coyote Creek, Third Quarter 2018*SFPP Norwalk Pump Station, Norwalk, California*

Date	Maximum Daily Flow Rate (cfs)^a	Comments
07/01/18	3.6	
07/02/18	12.0	
07/03/18	4.2	
07/04/18	4.5	
07/05/18	6.0	
07/06/18	5.2	
07/07/18	4.5	
07/08/18	3.6	
07/09/18	9.7	
07/10/18	3.9	
07/11/18	26.5	
07/12/18	13.0	July 2018 sampling conducted
07/13/18	16.5	
07/14/18	3.9	
07/15/18	3.6	
07/16/18	4.2	
07/17/18	4.2	
07/18/18	4.8	
07/19/18	7.1	
07/20/18	8.4	
07/21/18	4.8	
07/22/18	6.6	
07/23/18	6.0	
07/24/18	9.7	
07/25/18	9.7	
07/26/18	3.9	
07/27/18	4.5	
07/28/18	7.1	
07/29/18	9.7	
07/30/18	7.7	
07/31/18	17.8	
08/01/18	22.0	
08/02/18	8.4	
08/03/18	7.7	August 2018 sampling conducted
08/04/18	7.1	
08/05/18	9.7	
08/06/18	13.0	
08/07/18	13.0	
08/08/18	13.0	
08/09/18	18.9	
08/10/18	10.1	
08/11/18	18.2	
08/12/18	10.0	
08/13/18	3.6	
08/14/18	5.2	
08/15/18	6.0	
08/16/18	5.5	August 2018 sampling conducted
08/17/18	5.5	
08/18/18	4.8	
08/19/18	6.0	
08/20/18	4.8	
08/21/18	4.8	
08/22/18	5.2	
08/23/18	4.8	

Table 3. Maximum Daily Flow in Coyote Creek, Third Quarter 2018*SFPD Norwalk Pump Station, Norwalk, California*

Date	Maximum Daily Flow Rate (cfs)^a	Comments
08/24/18	4.5	
08/25/18	4.2	
08/26/18	4.8	
08/27/18	7.1	
08/28/18	6.6	
08/29/18	7.1	
08/30/18	6.6	
08/31/18	4.8	
09/01/18	5.5	
09/02/18	4.8	
09/03/18	4.5	
09/04/18	5.5	
09/05/18	5.2	
09/06/18	8.4	
09/07/18	6.0	September 2018 sampling conducted
09/08/18	9.0	
09/09/18	5.2	
09/10/18	5.2	
09/11/18	6.0	
09/12/18	7.1	
09/13/18	9.7	
09/14/18	12.0	
09/15/18	6.6	
09/16/18	7.7	
09/17/18	17.8	
09/18/18	4.5	
09/19/18	7.1	
09/20/18	5.2	
09/21/18	5.2	
09/22/18	4.5	
09/23/18	4.5	
09/24/18	7.1	
09/25/18	5.5	
09/26/18	14.1	
09/27/18	5.2	
09/28/18	6.6	
09/29/18	6.0	
09/30/18	5.2	

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

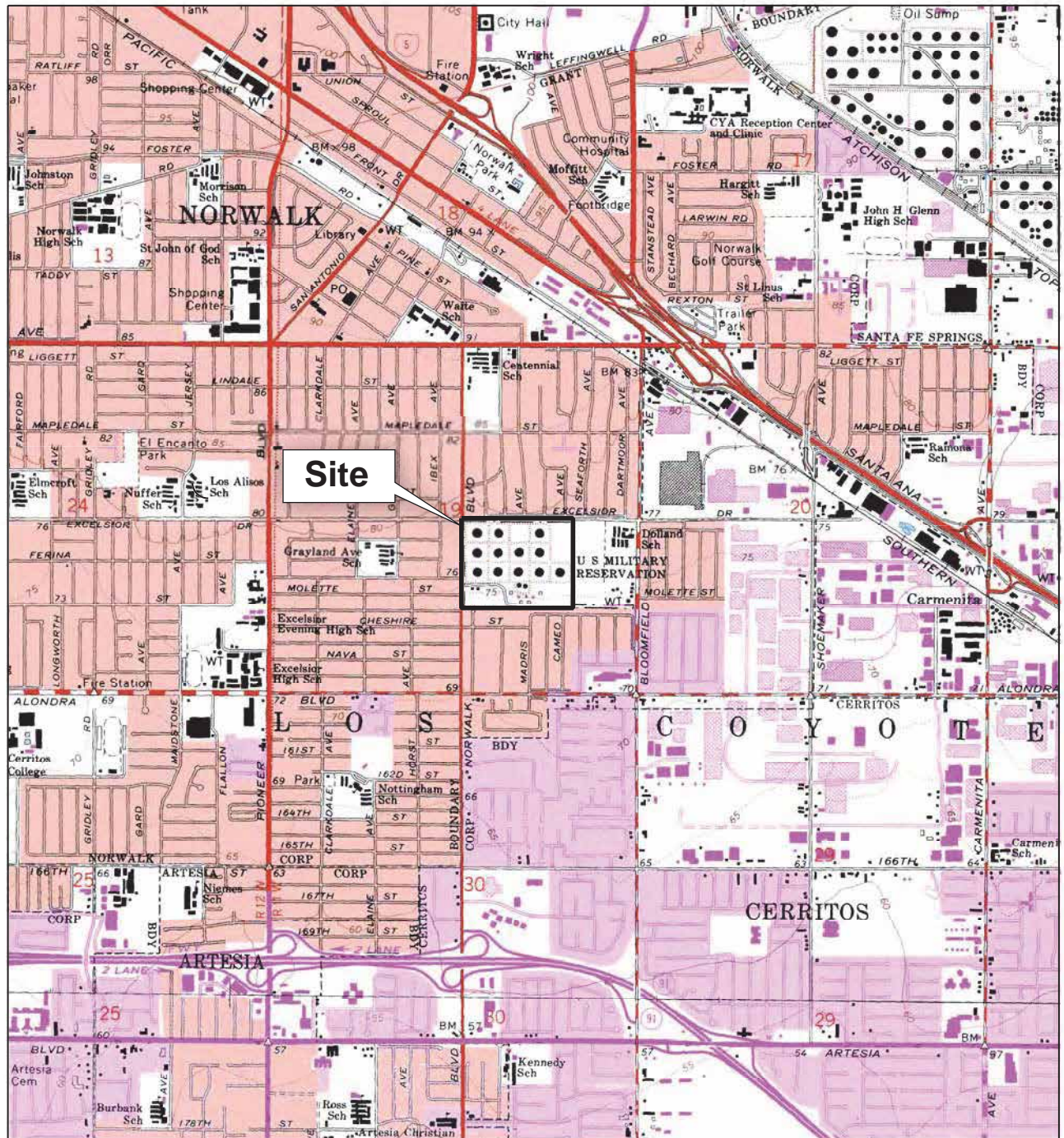
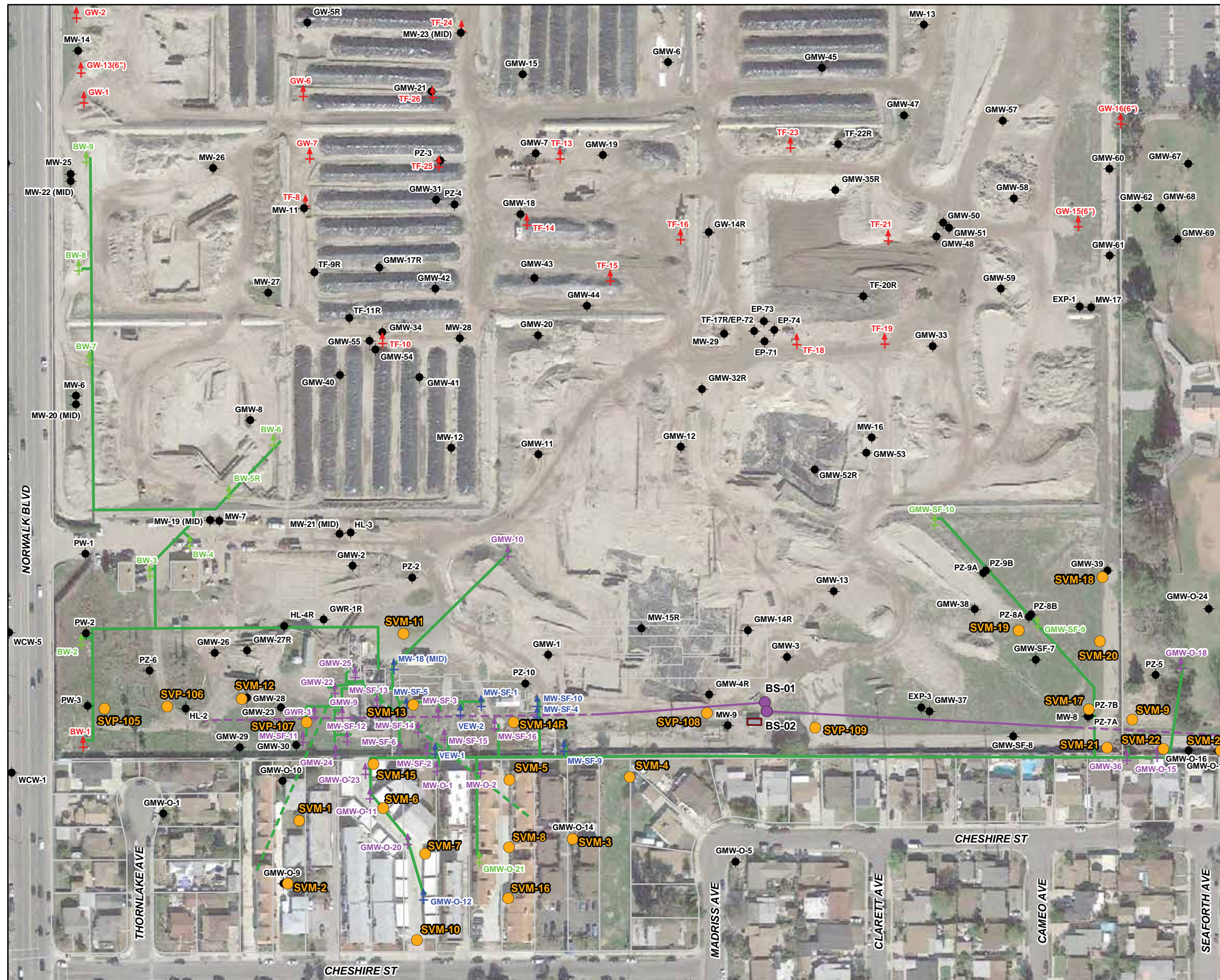


Figure 1. Site Location Map
 SFPP Norwalk Pump Station
 Norwalk, California

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.





- LEGEND**
- Soil Vapor Probe/Soil Vapor Monitoring Probe
 - Horizontal Biosparge Well Entry Point
 - Existing Groundwater Monitoring Well
 - ↑ Existing Remediation Well
 - ↑ Kinder Morgan Combined Soil Vapor and Total Fluids Extraction Wells
 - ↑ Kinder Morgan Soil Vapor Extraction Wells
 - ↑ Kinder Morgan Total Fluids and/or Groundwater Extraction Wells
 - Kinder Morgan Remediation Piping Layout (Above Ground and Below Ground)
 - Horizontal Vapor Extraction Well Piping (Dashed Line Depicts Approximate Lateral Extent of Well Screen)
 - Air Compressor System

Imagery Source:
Google Earth October 18, 2016.

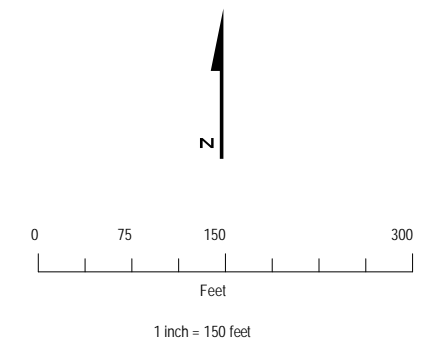


Figure 2. Remediation System Layout
SFPP Norwalk Pump Station
Norwalk, California

Attachment A
Laboratory Analytical Reports,
Chain-of-Custody Documents,
and Field Measurements

July 24, 2018

Eric Davis
CH2MHill
1000 Wilshire Blvd.
Los Angeles, CA 90017

TEL:

FAX:

Workorder No.: N031203

RE: SFPP Norwalk

Attention: Eric Davis

Enclosed are the results for sample(s) received on July 12, 2018 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,



Quennie Manimtim
Laboratory Director

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CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N031203

CASE NARRATIVE

tSAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

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

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

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 Comment for EPA 200.8:

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

Analytical Comment for EPA 8015B_Total:

Method Blank has hit above the reporting limit.

Analytical Comments for EPA 8260B:

Matrix Spike (MS) is outside recovery criteria for surrogate possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 8270C:

Laboratory Control Sample (LCS) recovery biased high for surrogate 4-Terphenyl-d14. Sample results were non-detect (ND) for analyte of interest therefore reanalysis of the samples was not necessary.



CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N031203

CASE NARRATIVE

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria biased high for surrogate 4-Terphenyl-d14. Sample results were non-detect (ND) for analyte of interest therefore reanalysis of the samples was not necessary.



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CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N031203
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N031203-001A	EFF-07-12	Wastewater	7/12/2018 1:30:00 PM	7/12/2018	7/24/2018
N031203-001B	EFF-07-12	Wastewater	7/12/2018 1:30:00 PM	7/12/2018	7/24/2018
N031203-001C	EFF-07-12	Wastewater	7/12/2018 1:30:00 PM	7/12/2018	7/24/2018
N031203-001D	EFF-07-12	Wastewater	7/12/2018 1:30:00 PM	7/12/2018	7/24/2018
N031203-001E	EFF-07-12	Wastewater	7/12/2018 1:30:00 PM	7/12/2018	7/24/2018
N031203-001F	EFF-07-12	Wastewater	7/12/2018 1:30:00 PM	7/12/2018	7/24/2018
N031203-001G	EFF-07-12	Wastewater	7/12/2018 1:30:00 PM	7/12/2018	7/24/2018
N031203-001H	EFF-07-12	Wastewater	7/12/2018 1:30:00 PM	7/12/2018	7/24/2018
N031203-001I	EFF-07-12	Wastewater	7/12/2018 1:30:00 PM	7/12/2018	7/24/2018



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 24-Jul-18

CLIENT: CH2MHill	Client Sample ID: EFF-07-12
Lab Order: N031203	Collection Date: 7/12/2018 1:30:00 PM
Project: SFPP Norwalk	Matrix: WASTEWATER
Lab ID: N031203-001	

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

SM2540D

RunID: NV00922-WC_180713A	QC Batch: 68837	PrepDate: 7/13/2018	Analyst: LR
Suspended Solids (Residue, Non-Filterable)	ND 10	10	mg/L
			1 7/13/2018 09:40 AM

SETTLABLE MATTER

SM2540F

RunID: NV00922-WC_180713C	QC Batch: 68838	PrepDate: 7/13/2018	Analyst: QBM
Settleable Matter	ND 0.093	0.093	ml/L
			1 7/13/2018

HEXANE EXTRACTABLE MATERIAL (HEM)

EPA 1664 _HEM REV B

RunID: NV00922-WC_180719A	QC Batch: 69913	PrepDate: 7/19/2018	Analyst: LR
Oil & Grease	ND 0.74	4.5	mg/L
			1 7/19/2018 07:57 AM

TURBIDITY

SM 2130B

RunID: NV00922-WC_180713B	QC Batch: R126206	PrepDate:	Analyst: LR
Turbidity	0.15 0.10	0.10	NTU
			1 7/13/2018 09:55 AM

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3510C

EPA 8270C

RunID: NV00922-MS3_180723A	QC Batch: 69916	PrepDate: 7/19/2018	Analyst: JJS
Phenol	ND 0.33	1.0	µg/L
Surr: 1,2-Dichlorobenzene-d4	90.0 0	16-120	%REC
Surr: 2-Fluorobiphenyl	44.0 0	25-120	%REC
Surr: 4-Terphenyl-d14	121 0	46-132	%REC
Surr: Phenol-d5	34.0 0	15-120	%REC
			1 7/23/2018 12:52 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: CA01638-MS10_180713A	QC Batch: CA18VW009	PrepDate:	Analyst: GAC
1,1-Dichloroethane	ND 0.45	0.50	ug/L
1,2-Dichloroethane	ND 0.29	0.50	ug/L
Benzene	ND 0.34	1.0	ug/L
Ethylbenzene	ND 0.31	1.0	ug/L
m,p-Xylene	ND 0.23	1.0	ug/L
MTBE	ND 0.34	1.0	ug/L
o-Xylene	ND 0.31	1.0	ug/L
			1 7/13/2018 02:38 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: 24-Jul-18

CLIENT: CH2MHill
Lab Order: N031203
Project: SFPP Norwalk
Lab ID: N031203-001

Client Sample ID: EFF-07-12
Collection Date: 7/12/2018 1:30:00 PM
Matrix: WASTEWATER

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

EPA 8260B

RunID:	CA01638-MS10_180713A	QC Batch:	CA18VW009	PrepDate:	Analyst:	GAC
Tert-Butanol	ND	2.4	5.0	ug/L	1	7/13/2018 02:38 PM
Toluene	ND	0.46	2.0	ug/L	1	7/13/2018 02:38 PM
Xylenes, Total	ND	1.5	2.0	ug/L	1	7/13/2018 02:38 PM
Surr: 1,2-Dichloroethane-d4	87.4	0	72-119	%REC	1	7/13/2018 02:38 PM
Surr: 4-Bromofluorobenzene	89.3	0	76-119	%REC	1	7/13/2018 02:38 PM
Surr: Dibromofluoromethane	89.8	0	85-115	%REC	1	7/13/2018 02:38 PM
Surr: Toluene-d8	81.2	0	81-120	%REC	1	7/13/2018 02:38 PM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID:	NV00922-GC1_180712C	QC Batch:	68833	PrepDate:	7/13/2018	Analyst:	JJS
TPH-Diesel (C13-C22)	17	16	26	J	ug/L	1	7/13/2018 02:33 PM
TPH-Oil (C23-C36)	30	14	26		ug/L	1	7/13/2018 02:33 PM
Surr: Octacosane	79.5	0	26-152		%REC	1	7/13/2018 02:33 PM
Surr: p-Terphenyl	91.4	0	57-132		%REC	1	7/13/2018 02:33 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID:	NV00922-GC4_180713A	QC Batch:	E18VW054	PrepDate:	Analyst:	QBM	
TPH-Gasoline (C4-C12)	42	16	50	J	ug/L	1	7/13/2018 11:24 AM
Surr: Chlorobenzene - d5	107	0	74-138		%REC	1	7/13/2018 11:24 AM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 245.1

RunID:	NV00922-AA1_180713A	QC Batch:	68830	PrepDate:	7/13/2018	Analyst:	MG
Mercury	ND	0.018	0.050		µg/L	1	7/13/2018 12:25 PM

TOTAL METALS BY ICPMS

EPA 200.8

RunID:	NV00922-ICP7_180716A	QC Batch:	68843	PrepDate:	7/13/2018	Analyst:	CEI
Copper	ND	0.26	0.50		µg/L	1	7/16/2018 03:45 PM
Lead	ND	0.13	0.50		µg/L	1	7/16/2018 03:45 PM
Zinc	ND	0.27	1.0		µg/L	1	7/16/2018 03:45 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: 24-Jul-18

CLIENT: CH2MHill
Lab Order: N031203
Project: SFPP Norwalk
Lab ID: N031203-001

Client Sample ID: EFF-07-12
Collection Date: 7/12/2018 1:30:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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TOTAL TPH

EPA 8015B

RunID: NV00922-GC1_180712C	QC Batch: R126214				PrepDate:		Analyst: JJS
Total TPH	89	16	50	B	ug/L	1	7/12/2018

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: N031203
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: LCS-68837	SampType: LCS	TestCode: 160.2_2540D_ Units: mg/L	Prep Date: 7/13/2018	RunNo: 126205							
Client ID: LCSW	Batch ID: 68837	TestNo: SM2540D	Analysis Date: 7/13/2018	SeqNo: 3078289							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter)	939.000	10	1000	0	93.9	80	120				

Sample ID: MB-68837	SampType: MBLK	TestCode: 160.2_2540D_ Units: mg/L	Prep Date: 7/13/2018	RunNo: 126205							
Client ID: PBW	Batch ID: 68837	TestNo: SM2540D	Analysis Date: 7/13/2018	SeqNo: 3078290							
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: N031181-001ADUP	SampType: DUP	TestCode: 160.2_2540D_ Units: mg/L	Prep Date: 7/13/2018	RunNo: 126205							
Client ID: ZZZZZ	Batch ID: 68837	TestNo: SM2540D	Analysis Date: 7/13/2018	SeqNo: 3078292							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter)	26.000	10						25.00	3.92	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
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits



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CLIENT: CH2MHill
Work Order: N031203
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.5_2540F_W

Sample ID: MB-68838	SampType: MBLK	TestCode: 160.5_2540F_ Units: m/L	Prep Date: 7/13/2018	RunNo: 126345							
Client ID: PBW	Batch ID: 68838	TestNo: SM2540F	Analysis Date: 7/13/2018	SeqNo: 3084297							
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 | Calculations are based on raw values | |



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CLIENT: CH2MHill
Work Order: N031203
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 1664_HEM_W

Sample ID: MB-69913	SampType: MBLK	TestCode: 1664_HEM_W Units: mg/L	Prep Date: 7/19/2018	RunNo: 126347							
Client ID: PBW	Batch ID: 69913	TestNo: EPA 1664_H	Analysis Date: 7/19/2018	SeqNo: 3084305							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease	ND	4.0									
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Sample ID: LCS-69913	SampType: LCS	TestCode: 1664_HEM_W Units: mg/L	Prep Date: 7/19/2018	RunNo: 126347							
Client ID: LCSW	Batch ID: 69913	TestNo: EPA 1664_H	Analysis Date: 7/19/2018	SeqNo: 3084306							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease	33.500	4.0	40.00	0	83.8	78	114				
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Sample ID: N031203-001GMS	SampType: MS	TestCode: 1664_HEM_W Units: mg/L	Prep Date: 7/19/2018	RunNo: 126347							
Client ID: ZZZZZ	Batch ID: 69913	TestNo: EPA 1664_H	Analysis Date: 7/19/2018	SeqNo: 3084308							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease	40.353	4.7	47.06	0	85.8	78	114				
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Sample ID: N031203-001GMSD	SampType: MSD	TestCode: 1664_HEM_W Units: mg/L	Prep Date: 7/19/2018	RunNo: 126347							
Client ID: ZZZZZ	Batch ID: 69913	TestNo: EPA 1664_H	Analysis Date: 7/19/2018	SeqNo: 3084309							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease	37.473	4.4	43.96	0	85.2	78	114	40.35	7.40	18	
--------------	--------	-----	-------	---	------	----	-----	-------	------	----	--

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N031203
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: MB-68843		SampType: MBLK		TestCode: 200.8_W_SFPP Units: µg/L			Prep Date: 7/13/2018		RunNo: 126255		
Client ID: PBW		Batch ID: 68843		TestNo: EPA 200.8			Analysis Date: 7/16/2018		SeqNo: 3080137		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.454	0.50									J
Lead	ND	0.50									
Zinc	ND	1.0									

Sample ID: LCS-68843		SampType: LCS		TestCode: 200.8_W_SFPP Units: µg/L			Prep Date: 7/13/2018		RunNo: 126255		
Client ID: LCSW		Batch ID: 68843		TestNo: EPA 200.8			Analysis Date: 7/16/2018		SeqNo: 3080138		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	10.729	0.50	10.00	0	107	85	115				
Lead	10.328	0.50	10.00	0	103	85	115				
Zinc	87.935	1.0	100.0	0	87.9	85	115				

Sample ID: N031203-001C-DUP		SampType: DUP		TestCode: 200.8_W_SFPP Units: µg/L			Prep Date: 7/13/2018		RunNo: 126255		
Client ID: ZZZZZZ		Batch ID: 68843		TestNo: EPA 200.8			Analysis Date: 7/16/2018		SeqNo: 3080142		
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	
Zinc	ND	1.0						0	0	20	

Sample ID: N031203-001C-MS		SampType: MS		TestCode: 200.8_W_SFPP Units: µg/L			Prep Date: 7/13/2018		RunNo: 126255		
Client ID: ZZZZZZ		Batch ID: 68843		TestNo: EPA 200.8			Analysis Date: 7/16/2018		SeqNo: 3080144		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	7.644	0.50	10.00	0	76.4	75	125				
Lead	10.164	0.50	10.00	0	102	75	125				
Zinc	127.417	1.0	100.0	0	127	75	125				S

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 |
| 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 | Calculations are based on raw values | |



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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N031203
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: N031203-001C-MSD		SampType: MSD		TestCode: 200.8_W_SFPP Units: µg/L			Prep Date: 7/13/2018		RunNo: 126255		
Client ID: ZZZZZZ		Batch ID: 68843		TestNo: EPA 200.8			Analysis Date: 7/16/2018		SeqNo: 3080145		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	7.375	0.50	10.00	0	73.8	75	125	7.644	3.58	20	S
Lead	10.109	0.50	10.00	0	101	75	125	10.16	0.549	20	
Zinc	125.214	1.0	100.0	0	125	75	125	127.4	1.74	20	S

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 |
| 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 | Calculations are based on raw values | |



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CLIENT: CH2MHill
Work Order: N031203
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 2130_W

Sample ID: MB-R126206	SampType: MBLK	TestCode: 2130_W	Units: NTU	Prep Date:	RunNo: 126206						
Client ID: PBW	Batch ID: R126206	TestNo: SM 2130B		Analysis Date: 7/13/2018	SeqNo: 3078296						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Turbidity	ND	0.10									

Sample ID: N031203-001FDUP	SampType: DUP	TestCode: 2130_W	Units: NTU	Prep Date:	RunNo: 126206						
Client ID: ZZZZZ	Batch ID: R126206	TestNo: SM 2130B		Analysis Date: 7/13/2018	SeqNo: 3078298						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Turbidity	0.140	0.10						0.1500	6.90	30	

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 |
| 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 | Calculations are based on raw values | |



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CLIENT: CH2MHill
Work Order: N031203
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W_LL

Sample ID: MB-68830	SampType: MBLK	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 7/13/2018	RunNo: 126203						
Client ID: PBW	Batch ID: 68830	TestNo: EPA 245.1		Analysis Date: 7/13/2018	SeqNo: 3078268						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.050

Sample ID: LCS-68830	SampType: LCS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 7/13/2018	RunNo: 126203						
Client ID: LCSW	Batch ID: 68830	TestNo: EPA 245.1		Analysis Date: 7/13/2018	SeqNo: 3078269						
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 85 115

Sample ID: N031203-001C-MS	SampType: MS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 7/13/2018	RunNo: 126203						
Client ID: ZZZZZ	Batch ID: 68830	TestNo: EPA 245.1		Analysis Date: 7/13/2018	SeqNo: 3078270						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.422 0.050 2.500 0 96.9 75 125

Sample ID: N031203-001C-MSD	SampType: MSD	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 7/13/2018	RunNo: 126203						
Client ID: ZZZZZ	Batch ID: 68830	TestNo: EPA 245.1		Analysis Date: 7/13/2018	SeqNo: 3078271						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.427 0.050 2.500 0 97.1 75 125 2.422 0.203 20

Sample ID: N031203-001C-DUP	SampType: DUP	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 7/13/2018	RunNo: 126203						
Client ID: ZZZZZ	Batch ID: 68830	TestNo: EPA 245.1		Analysis Date: 7/13/2018	SeqNo: 3078273						
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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| 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 | Calculations are based on raw values | |



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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N031203
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-68833		SampType: MBLK		TestCode: 8015_W_FP_ Units: ug/L		Prep Date: 7/13/2018		RunNo: 126214			
Client ID: PBW		Batch ID: 68833		TestNo: EPA 8015B EPA 3510C		Analysis Date: 7/13/2018		SeqNo: 3078326			
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)	24.857	25									J
Surr: Octacosane	51.444		80.00		64.3	26	152				
Surr: p-Terphenyl	59.426		80.00		74.3	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 | Calculations are based on raw values | |



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CLIENT: CH2MHill
Work Order: N031203
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

Sample ID: MB-R126214	SampType: MBLK	TestCode: 8015_W_SFP Units: ug/L	Prep Date:	RunNo: 126214							
Client ID: PBW	Batch ID: R126214	TestNo: EPA 8015B	Analysis Date: 7/12/2018	SeqNo: 3080180							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	68.857	50									

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 | Calculations are based on raw values | |



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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N031203
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID: E180713LCS	SampType: LCS	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 126223							
Client ID: LCSW	Batch ID: E18VW054	TestNo: EPA 8015B	Analysis Date: 7/13/2018	SeqNo: 3078651							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1056.000	50	1000	0	106	67	136				
Surr: Chlorobenzene - d5	50258.000		50000		101	74	138				

Sample ID: E180713MB1	SampType: MBLK	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 126223							
Client ID: PBW	Batch ID: E18VW054	TestNo: EPA 8015B	Analysis Date: 7/13/2018	SeqNo: 3078652							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	44.000	50									J
Surr: Chlorobenzene - d5	46913.000		50000		93.8	74	138				

Sample ID: N031203-001AMS	SampType: MS	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 126223							
Client ID: ZZZZZ	Batch ID: E18VW054	TestNo: EPA 8015B	Analysis Date: 7/13/2018	SeqNo: 3078654							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	914.000	50	1000	42.00	87.2	67	136				
Surr: Chlorobenzene - d5	51646.000		50000		103	74	138				

Sample ID: N031203-001AMSD	SampType: MSD	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 126223							
Client ID: ZZZZZ	Batch ID: E18VW054	TestNo: EPA 8015B	Analysis Date: 7/13/2018	SeqNo: 3078655							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	992.000	50	1000	42.00	95.0	67	136	914.0	8.18	30	
Surr: Chlorobenzene - d5	53515.000		50000		107	74	138		0	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 |
| 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 | Calculations are based on raw values | |



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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N031203
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: CA180713LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 126238						
Client ID: LCSW	Batch ID: CA18VW009	TestNo: EPA 8260B		Analysis Date: 7/13/2018	SeqNo: 3079164						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	16.990	0.50	20.00	0	85.0	69	133				
1,2-Dichloroethane	22.380	0.50	20.00	0	112	69	132				
Benzene	19.280	1.0	20.00	0	96.4	81	122				
Ethylbenzene	21.940	1.0	20.00	0	110	73	127				
m,p-Xylene	48.240	1.0	40.00	0	121	76	128				
MTBE	16.830	1.0	20.00	0	84.2	65	123				
o-Xylene	19.610	1.0	20.00	0	98.0	80	121				
Tert-Butanol	86.960	5.0	100.0	0	87.0	70	130				
Toluene	21.960	2.0	20.00	0	110	77	122				
Xylenes, Total	67.850	2.0	60.00	0	113	75	125				
Surr: 1,2-Dichloroethane-d4	21.850		25.00		87.4	72	119				
Surr: 4-Bromofluorobenzene	26.730		25.00		107	76	119				
Surr: Dibromofluoromethane	23.520		25.00		94.1	85	115				
Surr: Toluene-d8	27.180		25.00		109	81	120				

Sample ID: CA180713MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 126238						
Client ID: PBW	Batch ID: CA18VW009	TestNo: EPA 8260B		Analysis Date: 7/13/2018	SeqNo: 3079167						
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	21.630		25.00		86.5	72	119				

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 |
| 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 | Calculations are based on raw values | |

CLIENT: CH2MHill
Work Order: N031203
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: CA180713MB3		SampType: MBLK		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 126238			
Client ID: PBW		Batch ID: CA18VW009		TestNo: EPA 8260B		Analysis Date: 7/13/2018		SeqNo: 3079167			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	21.110		25.00		84.4	76	119				
Surr: Dibromofluoromethane	21.500		25.00		86.0	85	115				
Surr: Toluene-d8	22.480		25.00		89.9	81	120				

Sample ID: N031203-001A-MS		SampType: MS		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 126238			
Client ID: ZZZZZ		Batch ID: CA18VW009		TestNo: EPA 8260B		Analysis Date: 7/13/2018		SeqNo: 3079169			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	14.080	0.50	20.00	0	70.4	69	133				
1,2-Dichloroethane	20.920	0.50	20.00	0	105	69	132				
Benzene	16.630	1.0	20.00	0	83.2	81	122				
Ethylbenzene	19.470	1.0	20.00	0	97.4	73	127				
m,p-Xylene	42.610	1.0	40.00	0	107	76	128				
MTBE	15.120	1.0	20.00	0	75.6	65	123				
o-Xylene	16.250	1.0	20.00	0	81.2	80	121				
Tert-Butanol	88.800	5.0	100.0	0	88.8	70	130				
Toluene	17.300	2.0	20.00	0	86.5	77	122				
Xylenes, Total	58.860	2.0	60.00	0	98.1	75	125				
Surr: 1,2-Dichloroethane-d4	20.640		25.00		82.6	72	119				
Surr: 4-Bromofluorobenzene	24.220		25.00		96.9	76	119				
Surr: Dibromofluoromethane	22.090		25.00		88.4	85	115				
Surr: Toluene-d8	20.170		25.00		80.7	81	120				S

Sample ID: N031203-001A-MSD		SampType: MSD		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 126238			
Client ID: ZZZZZ		Batch ID: CA18VW009		TestNo: EPA 8260B		Analysis Date: 7/13/2018		SeqNo: 3079170			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	15.180	0.50	20.00	0	75.9	69	133	14.08	7.52	20	
1,2-Dichloroethane	21.330	0.50	20.00	0	107	69	132	20.92	1.94	20	
Benzene	17.200	1.0	20.00	0	86.0	81	122	16.63	3.37	20	

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 |
| 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 | Calculations are based on raw values | |



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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N031203
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N031203-001A-MSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 126238						
Client ID: ZZZZZZ	Batch ID: CA18VW009	TestNo: EPA 8260B			Analysis Date: 7/13/2018	SeqNo: 3079170					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	18.940	1.0	20.00	0	94.7	73	127	19.47	2.76	20	
m,p-Xylene	40.850	1.0	40.00	0	102	76	128	42.61	4.22	20	
MTBE	16.110	1.0	20.00	0	80.6	65	123	15.12	6.34	20	
o-Xylene	16.000	1.0	20.00	0	80.0	80	121	16.25	1.55	20	
Tert-Butanol	92.560	5.0	100.0	0	92.6	70	130	88.80	4.15	20	
Toluene	17.230	2.0	20.00	0	86.2	77	122	17.30	0.405	20	
Xylenes, Total	56.850	2.0	60.00	0	94.8	75	125	58.86	3.47	20	
Surr: 1,2-Dichloroethane-d4	24.180		25.00		96.7	72	119		0		
Surr: 4-Bromofluorobenzene	23.980		25.00		95.9	76	119		0		
Surr: Dibromofluoromethane	22.620		25.00		90.5	85	115		0		
Surr: Toluene-d8	21.180		25.00		84.7	81	120		0		

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N031203
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270WATER_SIMEXT

Sample ID: LCS-69916		SampType: LCS		TestCode: 8270WATER_ Units: µg/L			Prep Date: 7/19/2018		RunNo: 126427		
Client ID: LCSW		Batch ID: 69916		TestNo: EPA 8270C EPA 3510C			Analysis Date: 7/23/2018		SeqNo: 3087517		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	4.350	1.0	6.000	0	72.5	24	120				
Surr: 1,2-Dichlorobenzene-d4	0.610		1.000		61.0	16	120				
Surr: 2-Fluorobiphenyl	0.710		1.000		71.0	25	120				
Surr: 4-Terphenyl-d14	1.340		1.000		134	46	132				S
Surr: Phenol-d5	0.410		1.000		41.0	15	120				

Sample ID: MB-69916		SampType: MBLK		TestCode: 8270WATER_ Units: µg/L			Prep Date: 7/19/2018		RunNo: 126427		
Client ID: PBW		Batch ID: 69916		TestNo: EPA 8270C EPA 3510C			Analysis Date: 7/23/2018		SeqNo: 3087518		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	ND	1.0									
Surr: 1,2-Dichlorobenzene-d4	0.800		1.000		80.0	16	120				
Surr: 2-Fluorobiphenyl	0.530		1.000		53.0	25	120				
Surr: 4-Terphenyl-d14	1.200		1.000		120	46	132				
Surr: Phenol-d5	0.360		1.000		36.0	15	120				

Sample ID: N031203-001D-MS		SampType: MS		TestCode: 8270WATER_ Units: µg/L			Prep Date: 7/19/2018		RunNo: 126427		
Client ID: ZZZZZ		Batch ID: 69916		TestNo: EPA 8270C EPA 3510C			Analysis Date: 7/23/2018		SeqNo: 3087520		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	3.400	1.0	6.000	0	56.7	24	120				
Surr: 1,2-Dichlorobenzene-d4	0.600		1.000		60.0	16	120				
Surr: 2-Fluorobiphenyl	0.620		1.000		62.0	25	120				
Surr: 4-Terphenyl-d14	1.350		1.000		135	46	132				S
Surr: Phenol-d5	0.260		1.000		26.0	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 | Calculations are based on raw values | |



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE ENVIRONMENT AND ENERGY

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 NV00922
ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N031203
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270WATER_SIMEXT

Sample ID: N031203-001D-MSD		SampType: MSD		TestCode: 8270WATER_ Units: µg/L			Prep Date: 7/19/2018		RunNo: 126427		
Client ID: ZZZZZZ		Batch ID: 69916		TestNo: EPA 8270C EPA 3510C			Analysis Date: 7/23/2018		SeqNo: 3087521		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	3.672	1.0	6.154	0	59.7	24	120	3.400	7.69	20	
Surr: 1,2-Dichlorobenzene-d4	0.626		1.026		61.0	16	120		0		
Surr: 2-Fluorobiphenyl	0.605		1.026		59.0	25	120		0		
Surr: 4-Terphenyl-d14	1.456		1.026		142	46	132		0		S
Surr: Phenol-d5	0.328		1.026		32.0	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 | Calculations are based on raw values | |



ASSET LABORATORIES
ANALYTICAL SERVICES FOR ENVIRONMENTAL SCIENCE

CALIFORNIA | P: 562.219.7435 F: 562.219.7436
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 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 NV00922
 ORELAP/NELAP Cert 4046

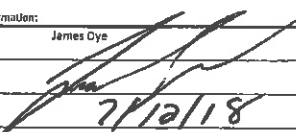
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N031203

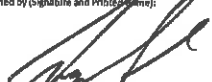

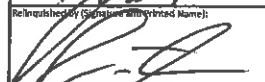
Asset Laboratories
 3151 W. Post Road
 Las Vegas, NV 89118
 Tel: 702-307-2659 Fax: 702-307-2691
 Marlon Cartin (marlon@assetlaboratories.com)

CHAIN OF CUSTODY RECORD

DATE: 7/12/18
 PAGE: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Section D Sampler Information:	
Company: Kinder Morgan Energy Partners Attention: Steve Deifbaugh		Report To: Eric Davis		Attention: Steve Deifbaugh - Ref. AFER 81195		Sampler Name: James Dye	
Address: 1100 Town & Country Road Orange, CA 92868		Copy To: Steve Deifbaugh		Company Name: Kinder Morgan Energy Partners		Sampler Signature: 	
Email To: steve_defibaugh@kindermorgan.com eric_davis@k12m.com		Purchase Order No.:		Address: 1100 Town & Country Road Orange, CA 92868		Sample Date: <u>7/12/18</u>	
Phone: 714-560-4802 Fax: 714-560-4801		Project Name: SFPP Norwalk		ATL Project Manager: Marlon Cartin			

ITEM #	SAMPLE ID	LOCATION/ DESCRIPTION	MATRIX	SAMPLE TYPE (G=GRAB, C=COMP)	DATE	TIME	TOTAL # OF CONTAINERS	Analysis Test:	CONTAINER TYPE												Comments						
									V	V	A	P	A	P	P	G	P	P									
									# OF CONTAINERS: 3 3 3 1 3 1 1 3 1 1 PRESERVATIVE: H H - N - - - S S - VOLUME (mL): 40 40 1000 500 1000 1000 1000 500 1000																		
									SAMPLING: BTEX, 1,1-DCA, 1,2-DCA, MTBE, TBA (#2608) TPH-gas (#0158) TPH-oil, Total TPH (#0158) Cu, Pb, Zn (200.8); Hg (#45.1) Phenol (#270) BOD (@ 20 deg. C) (#W2109) Total Suspended Solids (#W2540D); Turbidity (#M21908) Oil & Grease (1864) Ammonia Nitrogen (as N) (#SH-4500 NH3C) Settleable Solids (#M2540F)																		
1	EFF-0712	EFFLUENT	WW	G	7/12/18	1330	20		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
2																											N031203-01
3																											Report metals, TPH and VOC preliminary data on 24-hr TAT
4																											Report total Xylenes
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

Relinquished by (Signature and Printed Name):  Date / Time: 7/12/18 1330	Relinquished by (Signature and Printed Name):  Date / Time: 7/12/18 0:50	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: 3.8°C jar #2
Relinquished by (Signature and Printed Name):  Date / Time: 7/12/18 5:30	Relinquished by (Signature and Printed Name): Yoandrea Rodriguez Date / Time: 7/13/18 8:25 am		
Relinquished by (Signature and Printed Name):	Relinquished by (Signature and Printed Name):		

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

USO#: 1559

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: 7/12/2018 Workorder: N031203
 Rep sample Temp (Deg C): 3.8 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 1559 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  7/13/2018

Reviewed By:  07/13/18



ASSET Laboratories
 3151-3153 W Post Rd., Las Vegas, NV 89118
 www.atl-labs.com
 TEL: 7023072659 FAX: 7023072691

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

BC Labs
 4100 Atlas Court
 Bakersfield, CA 93308

TEL: (661) 327-4911
 FAX: (661) 327-1918
 Acct #:

Field Sampler: SIGNED

12-Jul-18

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				SM 5210 B	SM4500-NH3C	
N031203-001E / EFF-07-12	Wastewater	7/12/2018 1:30:00 PM	32OZA	1		
N031203-001H / EFF-07-12	Wastewater	7/12/2018 1:30:00 PM	16OZP		1	

EDD Requirement: CH2MHILL LabSpec7
Report Format: MDL/PQL "J-flagged"
Please cc report to Lucille Golosinda at lucille.golosinda@assetlaboratories.com

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

Please use PO#:N31203A Please email Invoices and Account Receivable Statements to elvira@assetlaboratories.com. For questions, call Marion at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: Normal TAT

Please analyze for Ammonia and BOD.

	Date/Time		Date/Time
Relinquished by: <u>Hanah Glodoviza</u> <i>HG</i>	<u>07/12/18</u>	1800	Received by: _____
Relinquished by: _____	_____	_____	Received by: _____

ASSET Laboratories

WORK ORDER Summary

13-Jul-18

WorkOrder: N031203

Client ID: CH2HI03

Project: SFPP Norwalk

QC Level: RTNE

Date Received: 7/12/2018

Comments: 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
N031203-001A	EFF-07-12	7/12/2018 1:30:00 PM	7/13/2018	Wastewater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
			7/13/2018		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N031203-001B			7/13/2018		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/13/2018		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/13/2018		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N031203-001C			7/13/2018			AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/13/2018		EPA 200.8	TOTAL METALS BY ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/13/2018		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/13/2018			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N031203-001D			7/19/2018		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C - SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/19/2018		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N031203-001E			7/19/2018		SM 5210 B	BIOCHEMICAL OXYGEN DEMAND	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB
N031203-001F			7/19/2018		SM2540D	TOTAL NON-FILTERABLE RESIDUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LSR
			7/19/2018			Total Suspended Solids Prep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LSR
			7/19/2018		SM 2130B	TURBIDITY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LSR
N031203-001G			7/19/2018			Oil and Grease Sample Prep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/19/2018		EPA 1664 _HEM Pov. P	Hexane Extractable Material (HEM)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N031203-001H			7/19/2018		SM4500-NH3C	AMMONIA-N	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SUB
N031203-001I			7/19/2018		SM2540F	SETTLEABLE MATTER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			7/19/2018			Setteable Matter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

13-Jul-18

WorkOrder: N031203

Client ID: CH2HI03

Project: SFPP Norwalk

QC Level: RTNE

Date Received: 7/12/2018

Comments: 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
N031203-002A	FOLDER	7/13/2018	7/13/2018		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			7/13/2018		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB



a GLS company

800-322-5555
www.gso.com

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

Tracking #: 541301559

CPS



Ship To
ASSET LABORATORIES
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: NOT REQUIRED



87259006

Print Date: 7/12/2018 6:02 PM

Package 1 of 3

LABEL INSTRUCTIONS:

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

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the GSO service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gso.com.

3.8°C
vrt # 2



Date of Report: 07/23/2018

Marlon Cartin

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

Client Project: N031203
BCL Project: Cerritos - EDD
BCL Work Order: 1821923
Invoice ID: B310418

Enclosed are the results of analyses for samples received by the laboratory on 7/13/2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Sandoval
Client Service Rep

Stuart Buttram
Technical Director

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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Water Analysis (General Chemistry)..... 5

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

Reported: 07/23/2018 11:08
Project: Cerritos - EDD
Project Number: N031203
Project Manager: Marlon Cartin

Laboratory / Client Sample Cross Reference

Laboratory ID	Client Sample Information			
1821923-01	COC Number:	---	Receive Date:	07/13/2018 08:38
	Project Number:	---	Sampling Date:	07/12/2018 13:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	N031203-001E / EFF-07-12	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Wastewater
1821923-02	COC Number:	---	Receive Date:	07/13/2018 08:38
	Project Number:	---	Sampling Date:	07/12/2018 13:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	N031203-001H / EFF-07-12	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Wastewater

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

Reported: 07/23/2018 11:08
Project: Cerritos - EDD
Project Number: N031203
Project Manager: Marlon Cartin

Water Analysis (General Chemistry)

BCL Sample ID: 1821923-01	Client Sample Name: N031203-001E / EFF-07-12, 7/12/2018 1:30:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Biochemical Oxygen Demand - Seeded	2.8	mg/L	1.5	1.5	SM17-5210B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	SM17-5210B	07/13/18 09:40	07/13/18 09:40	HPR	YSIPRO	1.525	B019225

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

Reported: 07/23/2018 11:08
Project: Cerritos - EDD
Project Number: N031203
Project Manager: Marlon Cartin

Water Analysis (General Chemistry)

BCL Sample ID: 1821923-02	Client Sample Name: N031203-001H / EFF-07-12, 7/12/2018 1:30:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ammonia as N (Distilled)	0.082	mg/L	0.20	0.078	SM-4500-NH3G	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	SM-4500-NH3G	07/18/18 08:28	07/18/18 13:57	JMH	SC-1	1	B019183

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

Reported: 07/23/2018 11:08
Project: Cerritos - EDD
Project Number: N031203
Project Manager: Marlon Cartin

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B019183						
Ammonia as N (Distilled)	B019183-BLK1	ND	mg/L	0.20	0.078	
QC Batch ID: B019225						
Biochemical Oxygen Demand - Seeded	B019225-BLK1	ND	mg/L	1.0	1.0	

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

Reported: 07/23/2018 11:08
Project: Cerritos - EDD
Project Number: N031203
Project Manager: Marlon Cartin

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
								Percent Recovery	RPD	
QC Batch ID: B019183										
Ammonia as N (Distilled)	B019183-BS1	LCS	1.0170	1.0000	mg/L	102		85 - 115		
QC Batch ID: B019225										
Biochemical Oxygen Demand - Seeded	B019225-BS1	LCS	205.11	198.00	mg/L	104		85 - 115		

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

Reported: 07/23/2018 11:08
Project: Cerritos - EDD
Project Number: N031203
Project Manager: Marlon Cartin

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	RPD	
QC Batch ID: B019183		Used client sample: Y - Description: N031203-001H / EFF-07-12, 07/12/2018 13:30								
Ammonia as N (Distilled)	DUP	1821923-02	0.081600	ND		mg/L			20	
	MS	1821923-02	0.081600	0.95710	1.0000	mg/L		87.6		80 - 120
	MSD	1821923-02	0.081600	0.95410	1.0000	mg/L	0.3	87.2	20	80 - 120
QC Batch ID: B019225		Used client sample: N								
Biochemical Oxygen Demand - Seeded	DUP	1821886-01	5.0427	4.6970		mg/L	7.1		20	

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

Reported: 07/23/2018 11:08
Project: Cerritos - EDD
Project Number: N031203
Project Manager: Marlon Cartin

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit

Kinder Morgan Field Meter Calibration and Log Form

Site Name	Site Location	Project Manager	CH2M Personnel	Norwalk Effluent Monitoring Form SFPP Norwalk Pump Station Norwalk, CA Form Revised 1/8/18		
SFPP Norwalk Pump Station	Norwalk, CA	Steve Defibaugh	Eric Davis, PM Vladimir Carino			
Date	Time	SAMPLE TYPE (circle one):		Discharge Permit	Expiration Date	
7/12/13	1414	Grab, Composite, Flow-through, Other		R4-2016-0309	11/1/2021	
O&M Technician#1	O&M Technician#2					
James Dye						
EQUIPMENT						
Multimeter	Make: YSI					
	Model: 556 MPS					
	Serial Number: 0240275 AC					
CALIBRATION						
Date of Calibration:	7/12/13	Time:				
Calibration Standard:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Standard	Expiration Date	Calibrated Within 0.2 pH units?		
pH Calibration Standard		4	6/19	<input checked="" type="radio"/> Yes	No	
		7	1/19	<input checked="" type="radio"/> Yes	No	
		10	1/19	<input checked="" type="radio"/> Yes	No	
Cond. Calibration	Equipment Reading:	Calibrated to or within 10%?		Yes	No	
FIELD PARAMETERS			FIELD MEASUREMENTS			
			Effluent (EFF-001)	Upstream (RSW-001)	Downstream (RSW-002)	Mid-Point
TIME			1414			
pH (DISCHARGE LIMIT 6.5 - 8.5) (Quarterly, Annually)			7.4			
TEMP (°F) (DISCHARGE LIMIT 86°F) (Quarterly, Annually)			72.5			
SALINITY (ppt)						
COND (mS/cm or uS/cm; Specific Cond.) <i>Circle or Note Units Used</i>						
OBSERVATIONS						

KINDER MORGAN

Signed: _____

Date: 7/12/18

August 15, 2018

Eric Davis
CH2MHill
1000 Wilshire Blvd.
Los Angeles, CA 90017

TEL:

FAX:

Workorder No.: N031531

RE: SFPP Norwalk

Attention: Eric Davis

Enclosed are the results for sample(s) received on August 03, 2018 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,



Quennie Manimtim
Laboratory Director

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CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N031531

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

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

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

Sample was analyzed within method holding time.

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

Analytical Comment for EPA 200.8:

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



CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N031531
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N031531-001A	EFF-08-03	Wastewater	8/3/2018 12:50:00 PM	8/3/2018	8/15/2018
N031531-001B	EFF-08-03	Wastewater	8/3/2018 12:50:00 PM	8/3/2018	8/15/2018
N031531-001C	EFF-08-03	Wastewater	8/3/2018 12:50:00 PM	8/3/2018	8/15/2018
N031531-001D	EFF-08-03	Wastewater	8/3/2018 12:50:00 PM	8/3/2018	8/15/2018



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 15-Aug-18

CLIENT: CH2MHill
Lab Order: N031531
Project: SFPP Norwalk
Lab ID: N031531-001

Client Sample ID: EFF-08-03
Collection Date: 8/3/2018 12:50:00 PM
Matrix: WASTEWATER

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

EPA 8260B

RunID: MS8_180804A	QC Batch: R18VW060				PrepDate:	Analyst: QBM	
1,1-Dichloroethane	ND	0.45	0.50		ug/L	1	8/4/2018 01:11 PM
1,2-Dichloroethane	ND	0.29	0.50		ug/L	1	8/4/2018 01:11 PM
Benzene	ND	0.34	1.0		ug/L	1	8/4/2018 01:11 PM
Ethylbenzene	ND	0.31	1.0		ug/L	1	8/4/2018 01:11 PM
m,p-Xylene	ND	0.23	1.0		ug/L	1	8/4/2018 01:11 PM
MTBE	ND	0.34	1.0		ug/L	1	8/4/2018 01:11 PM
o-Xylene	ND	0.31	1.0		ug/L	1	8/4/2018 01:11 PM
Tert-Butanol	ND	2.4	5.0		ug/L	1	8/4/2018 01:11 PM
Toluene	ND	0.46	2.0		ug/L	1	8/4/2018 01:11 PM
Xylenes, Total	ND	1.5	2.0		ug/L	1	8/4/2018 01:11 PM
Surr: 1,2-Dichloroethane-d4	102	0	72-119		%REC	1	8/4/2018 01:11 PM
Surr: 4-Bromofluorobenzene	97.2	0	76-119		%REC	1	8/4/2018 01:11 PM
Surr: Dibromofluoromethane	106	0	85-115		%REC	1	8/4/2018 01:11 PM
Surr: Toluene-d8	100	0	81-120		%REC	1	8/4/2018 01:11 PM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID: NV00922-GC3_180806B	QC Batch: 70124				PrepDate: 8/6/2018	Analyst: RRS	
TPH-Diesel (C13-C22)	ND	16	26		ug/L	1	8/6/2018 04:11 PM
TPH-Oil (C23-C36)	33	14	26		ug/L	1	8/6/2018 04:11 PM
Surr: Octacosane	69.8	0	26-152		%REC	1	8/6/2018 04:11 PM
Surr: p-Terphenyl	62.6	0	57-132		%REC	1	8/6/2018 04:11 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: NV00922-GC4_180806A	QC Batch: E18VW060				PrepDate:	Analyst: QBM	
TPH-Gasoline (C4-C12)	27	16	50	J	ug/L	1	8/6/2018 11:50 AM
Surr: Chlorobenzene - d5	105	0	74-138		%REC	1	8/6/2018 11:50 AM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 245.1

RunID: NV00922-AA1_180806A	QC Batch: 70118				PrepDate: 8/6/2018	Analyst: MG	
Mercury	ND	0.018	0.050		µg/L	1	8/6/2018 11:51 AM

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: 15-Aug-18

CLIENT: CH2MHill
Lab Order: N031531
Project: SFPP Norwalk
Lab ID: N031531-001

Client Sample ID: EFF-08-03
Collection Date: 8/3/2018 12:50:00 PM
Matrix: WASTEWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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TOTAL METALS BY ICPMS

EPA 200.8

RunID: NV00922-ICP7_180807A	QC Batch: 70122			PrepDate:	8/6/2018		Analyst: CEI
Copper	ND	0.26	0.50		µg/L	1	8/7/2018 11:16 AM
Lead	ND	0.13	0.50		µg/L	1	8/6/2018 01:49 PM
Zinc	ND	0.27	1.0		µg/L	1	8/6/2018 01:49 PM

TOTAL TPH

EPA 8015B

RunID: NV00922-GC3_180806B	QC Batch: R126745			PrepDate:			Analyst: RRS
Total TPH	60	16	50		ug/L	1	8/6/2018

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: N031531
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: MB-70122	SampType: MBLK	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 8/6/2018	RunNo: 126750							
Client ID: PBW	Batch ID: 70122	TestNo: EPA 200.8	Analysis Date: 8/6/2018	SeqNo: 3101710							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.50									
Zinc	ND	1.0									

Sample ID: LCS-70122	SampType: LCS	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 8/6/2018	RunNo: 126750							
Client ID: LCSW	Batch ID: 70122	TestNo: EPA 200.8	Analysis Date: 8/6/2018	SeqNo: 3101711							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.923	0.50	10.00	0	99.2	85	115				
Zinc	202.656	1.0	200.0	0	101	85	115				

Sample ID: N031531-001C-DUP	SampType: DUP	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 8/6/2018	RunNo: 126750							
Client ID: ZZZZZ	Batch ID: 70122	TestNo: EPA 200.8	Analysis Date: 8/6/2018	SeqNo: 3101714							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.50						0	0	20	
Zinc	ND	1.0						0	0	20	

Sample ID: N031531-001C-MS	SampType: MS	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 8/6/2018	RunNo: 126750							
Client ID: ZZZZZ	Batch ID: 70122	TestNo: EPA 200.8	Analysis Date: 8/6/2018	SeqNo: 3101716							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	8.700	0.50	10.00	0	87.0	75	125				
Zinc	178.174	1.0	100.0	0	178	75	125				S

Sample ID: N031531-001C-MSD	SampType: MSD	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 8/6/2018	RunNo: 126750							
Client ID: ZZZZZ	Batch ID: 70122	TestNo: EPA 200.8	Analysis Date: 8/6/2018	SeqNo: 3101717							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

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
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits



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CLIENT: CH2MHill
Work Order: N031531
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: N031531-001C-MSD		SampType: MSD		TestCode: 200.8_W_SFPP Units: µg/L			Prep Date: 8/6/2018		RunNo: 126750		
Client ID: ZZZZZZ		Batch ID: 70122		TestNo: EPA 200.8			Analysis Date: 8/6/2018		SeqNo: 3101717		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	8.693	0.50	10.00	0	86.9	75	125	8.700	0.0890	20	
Zinc	179.311	1.0	100.0	0	179	75	125	178.2	0.636	20	S

Sample ID: MB-70122		SampType: MBLK		TestCode: 200.8_W_SFPP Units: µg/L			Prep Date: 8/6/2018		RunNo: 126758		
Client ID: PBW		Batch ID: 70122		TestNo: EPA 200.8			Analysis Date: 8/7/2018		SeqNo: 3102302		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	ND	0.50									

Sample ID: LCS-70122		SampType: LCS		TestCode: 200.8_W_SFPP Units: µg/L			Prep Date: 8/6/2018		RunNo: 126758		
Client ID: LCSW		Batch ID: 70122		TestNo: EPA 200.8			Analysis Date: 8/7/2018		SeqNo: 3102303		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	9.880	0.50	10.00	0	98.8	85	115				

Sample ID: N031531-001C-DUP		SampType: DUP		TestCode: 200.8_W_SFPP Units: µg/L			Prep Date: 8/6/2018		RunNo: 126758		
Client ID: ZZZZZZ		Batch ID: 70122		TestNo: EPA 200.8			Analysis Date: 8/7/2018		SeqNo: 3102306		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	ND	0.50						0	0	20	

Sample ID: N031531-001C-MS		SampType: MS		TestCode: 200.8_W_SFPP Units: µg/L			Prep Date: 8/6/2018		RunNo: 126758		
Client ID: ZZZZZZ		Batch ID: 70122		TestNo: EPA 200.8			Analysis Date: 8/7/2018		SeqNo: 3102308		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	9.800	0.50	10.00	0	98.0	75	125				

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N031531
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: N031531-001C-MSD	SampType: MSD	TestCode: 200.8_W_SFP Units: µg/L	Prep Date: 8/6/2018	RunNo: 126758							
Client ID: ZZZZZZ	Batch ID: 70122	TestNo: EPA 200.8	Analysis Date: 8/7/2018	SeqNo: 3102309							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	9.573	0.50	10.00	0	95.7	75	125	9.800	2.34	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 | Calculations are based on raw values | |



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CLIENT: CH2MHill
Work Order: N031531
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W_LL

Sample ID: MB-70118	SampType: MBLK	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 8/6/2018	RunNo: 126731						
Client ID: PBW	Batch ID: 70118	TestNo: EPA 245.1		Analysis Date: 8/6/2018	SeqNo: 3101190						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.050

Sample ID: LCS-70118	SampType: LCS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 8/6/2018	RunNo: 126731						
Client ID: LCSW	Batch ID: 70118	TestNo: EPA 245.1		Analysis Date: 8/6/2018	SeqNo: 3101191						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.707 0.050 2.500 0 108 85 115

Sample ID: N031531-001C-MS	SampType: MS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 8/6/2018	RunNo: 126731						
Client ID: ZZZZZ	Batch ID: 70118	TestNo: EPA 245.1		Analysis Date: 8/6/2018	SeqNo: 3101192						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.477 0.050 2.500 0 99.1 75 125

Sample ID: N031531-001C-MSD	SampType: MSD	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 8/6/2018	RunNo: 126731						
Client ID: ZZZZZ	Batch ID: 70118	TestNo: EPA 245.1		Analysis Date: 8/6/2018	SeqNo: 3101193						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.510 0.050 2.500 0 100 75 125 2.477 1.33 20

Sample ID: N031531-001C-DUP	SampType: DUP	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 8/6/2018	RunNo: 126731						
Client ID: ZZZZZ	Batch ID: 70118	TestNo: EPA 245.1		Analysis Date: 8/6/2018	SeqNo: 3101195						
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 | Calculations are based on raw values | |



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 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert NV00922
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N031531
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-70124	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 8/6/2018	RunNo: 126745						
Client ID: PBW	Batch ID: 70124	TestNo: EPA 8015B EPA 3510C		Analysis Date: 8/6/2018	SeqNo: 3101482						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	25									
TPH-Oil (C23-C36)	ND	25									
Surr: Octacosane	59.238		80.00		74.0	26	152				
Surr: p-Terphenyl	56.159		80.00		70.2	57	132				

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N031531
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

Sample ID: MB-R126745	SampType: MBLK	TestCode: 8015_W_SFP	Units: ug/L	Prep Date:	RunNo: 126745						
Client ID: PBW	Batch ID: R126745	TestNo: EPA 8015B		Analysis Date: 8/6/2018	SeqNo: 3102162						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	32.000	50									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 | Calculations are based on raw values | |



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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N031531
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID: E180806LCS	SampType: LCS	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 126739							
Client ID: LCSW	Batch ID: E18VW060	TestNo: EPA 8015B	Analysis Date: 8/6/2018	SeqNo: 3101237							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	877.000	50	1000	0	87.7	67	136				
Surr: Chlorobenzene - d5	47583.000		50000		95.2	74	138				

Sample ID: E180806MB1	SampType: MBLK	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 126739							
Client ID: PBW	Batch ID: E18VW060	TestNo: EPA 8015B	Analysis Date: 8/6/2018	SeqNo: 3101238							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	32.000	50									J
Surr: Chlorobenzene - d5	55138.000		50000		110	74	138				

Sample ID: N031531-001AMS	SampType: MS	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 126739							
Client ID: ZZZZZ	Batch ID: E18VW060	TestNo: EPA 8015B	Analysis Date: 8/6/2018	SeqNo: 3101241							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	826.000	50	1000	27.00	79.9	67	136				
Surr: Chlorobenzene - d5	48927.000		50000		97.9	74	138				

Sample ID: N031531-001AMSD	SampType: MSD	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 126739							
Client ID: ZZZZZ	Batch ID: E18VW060	TestNo: EPA 8015B	Analysis Date: 8/6/2018	SeqNo: 3101242							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	855.000	50	1000	27.00	82.8	67	136	826.0	3.45	30	
Surr: Chlorobenzene - d5	47401.000		50000		94.8	74	138		0	0	

Qualifiers:

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



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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N031531
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: R180804LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 126712						
Client ID: LCSW	Batch ID: R18VW060	TestNo: EPA 8260B		Analysis Date: 8/4/2018	SeqNo: 3099842						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	16.690	0.50	20.00	0	83.4	69	133				
1,2-Dichloroethane	18.320	0.50	20.00	0	91.6	69	132				
Benzene	17.980	1.0	20.00	0	89.9	81	122				
Ethylbenzene	18.880	1.0	20.00	0	94.4	73	127				
m,p-Xylene	38.650	1.0	40.00	0	96.6	76	128				
MTBE	17.600	1.0	20.00	0	88.0	65	123				
o-Xylene	18.930	1.0	20.00	0	94.6	80	121				
Tert-Butanol	85.020	5.0	100.0	0	85.0	70	130				
Toluene	18.210	2.0	20.00	0	91.1	77	122				
Xylenes, Total	57.580	2.0	60.00	0	96.0	75	125				
Surr: 1,2-Dichloroethane-d4	23.050		25.00		92.2	72	119				
Surr: 4-Bromofluorobenzene	25.570		25.00		102	76	119				
Surr: Dibromofluoromethane	23.860		25.00		95.4	85	115				
Surr: Toluene-d8	24.540		25.00		98.2	81	120				

Sample ID: N031531-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 126712						
Client ID: ZZZZZ	Batch ID: R18VW060	TestNo: EPA 8260B		Analysis Date: 8/4/2018	SeqNo: 3099843						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	18.930	0.50	20.00	0	94.6	69	133				
1,2-Dichloroethane	20.560	0.50	20.00	0	103	69	132				
Benzene	20.230	1.0	20.00	0	101	81	122				
Ethylbenzene	20.930	1.0	20.00	0	105	73	127				
m,p-Xylene	42.650	1.0	40.00	0	107	76	128				
MTBE	19.980	1.0	20.00	0	99.9	65	123				
o-Xylene	21.110	1.0	20.00	0	106	80	121				
Tert-Butanol	97.740	5.0	100.0	0	97.7	70	130				
Toluene	20.660	2.0	20.00	0	103	77	122				
Xylenes, Total	63.760	2.0	60.00	0	106	75	125				
Surr: 1,2-Dichloroethane-d4	23.480		25.00		93.9	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 | Calculations are based on raw values | |



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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N031531
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N031531-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 126712						
Client ID: ZZZZZ	Batch ID: R18VW060	TestNo: EPA 8260B	Analysis Date: 8/4/2018	SeqNo: 3099843							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	25.010		25.00		100	76	119				
Surr: Dibromofluoromethane	24.150		25.00		96.6	85	115				
Surr: Toluene-d8	24.160		25.00		96.6	81	120				

Sample ID: N031531-001AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 126712						
Client ID: ZZZZZ	Batch ID: R18VW060	TestNo: EPA 8260B	Analysis Date: 8/4/2018	SeqNo: 3099844							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	19.310	0.50	20.00	0	96.6	69	133	18.93	1.99	20	
1,2-Dichloroethane	20.270	0.50	20.00	0	101	69	132	20.56	1.42	20	
Benzene	20.530	1.0	20.00	0	103	81	122	20.23	1.47	20	
Ethylbenzene	21.160	1.0	20.00	0	106	73	127	20.93	1.09	20	
m,p-Xylene	41.880	1.0	40.00	0	105	76	128	42.65	1.82	20	
MTBE	20.390	1.0	20.00	0	102	65	123	19.98	2.03	20	
o-Xylene	20.950	1.0	20.00	0	105	80	121	21.11	0.761	20	
Tert-Butanol	97.720	5.0	100.0	0	97.7	70	130	97.74	0.0205	20	
Toluene	20.730	2.0	20.00	0	104	77	122	20.66	0.338	20	
Xylenes, Total	62.830	2.0	60.00	0	105	75	125	63.76	1.47	20	
Surr: 1,2-Dichloroethane-d4	23.830		25.00		95.3	72	119		0		
Surr: 4-Bromofluorobenzene	25.040		25.00		100	76	119		0		
Surr: Dibromofluoromethane	24.760		25.00		99.0	85	115		0		
Surr: Toluene-d8	24.520		25.00		98.1	81	120		0		

Sample ID: R180804MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 126712						
Client ID: PBW	Batch ID: R18VW060	TestNo: EPA 8260B	Analysis Date: 8/4/2018	SeqNo: 3099847							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	ND	0.50									
1,2-Dichloroethane	ND	0.50									
Benzene	ND	1.0									

Qualifiers:

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



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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N031531
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: R180804MB3		SampType: MBLK		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 126712			
Client ID: PBW		Batch ID: R18VW060		TestNo: EPA 8260B		Analysis Date: 8/4/2018		SeqNo: 3099847			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
MTBE	ND	1.0									
o-Xylene	ND	1.0									
Tert-Butanol	ND	5.0									
Toluene	ND	2.0									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	24.860		25.00		99.4	72	119				
Surr: 4-Bromofluorobenzene	24.670		25.00		98.7	76	119				
Surr: Dibromofluoromethane	25.720		25.00		103	85	115				
Surr: Toluene-d8	24.800		25.00		99.2	81	120				

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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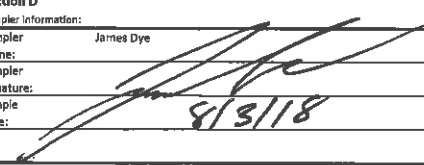
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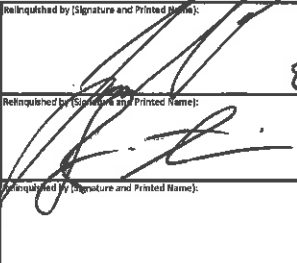
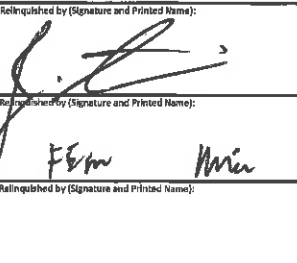
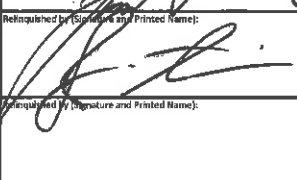
Asset Laboratories
 3151 W. Post Road
 Las Vegas, NV 89118
 Tel: 702-307-2659 Fax: 702-307-2691
 Marlon Cartin (marlon@assetlaboratories.com)

CHAIN OF CUSTODY RECORD

DATE: 8/3/18
 PAGE: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Section D Sampler Information:
Company: Kinder Morgan Energy Partners Attention: Steve Defibaugh	Report To: Eric Davis	Attention: Steve Defibaugh - Ref. AFE# 81195	Sampler Name: James Dye
Address: 1100 Town & Country Road Orange, CA 92868	Copy To: Steve Defibaugh	Company Name: Kinder Morgan Energy Partners	Sampler Signature: 
Email To: steve_defibaugh@kindermorgan.com eric_davis@ch2m.com	Purchase Order No.:	Address: 1100 Town & Country Road Orange, CA 92868	Sample Date: <u>8/3/18</u>
Phone: 714-560-4802 Fax: 714-560-4801	Project Name: SFPP Norwalk	ATL Project Manager: Marlon Cartin	

Section E Required Sample Information		CONTAINER TYPE		V	V	A	P	A						
ITEM #	SAMPLE ID	LOCATION/ DESCRIPTION	MATRIX	SAMPLE TYPE (G=GRAB C-COMP)	SAMPLING		TOTAL # OF CONTAINERS	Analysis Test					Comments	
					DATE	TIME			# OF CONTAINERS	PRESERVATIVE	VOLUME (mL)	V		V
1	EFF-0803	EFFLUENT	WW	G	8/3/18	1250	15	18EK, 1,1-DCA, 1,2-DCA, MTBE, TBA (82608) TPH-gas (80158) TPH-l, TPH-oh, Total TPH (80158) Cu, Pb, Zn (200.8); Hg (205-1) Phenol (8270)	X	X	X	X	X	N031531-01
2														Report metals, TPH and VOC preliminary data on 24-hr TAT
3														Report total Xylenes
4														
5														
6														
7														
8														
9														
10														
11														
12														

Relinquished by (Signature and Printed Name):  Date / Time: 8/3/18 1330	Relinquished by (Signature and Printed Name):  Date / Time: 8/3/18 2:45	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:
Relinquished by (Signature and Printed Name):  Date / Time: 8/3/18 5:30	Relinquished by (Signature and Printed Name): FEW Min Date / Time: 8/4/18 9:10		

IN # 2 4-200
 C 50 1255

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: 8/3/2018 Workorder: N031531
 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.: 1255 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:

For:



8/6/2018

Checklist Completed By: FR

Reviewed By:  8/6/2018

ASSET Laboratories

WORK ORDER Summary

06-Aug-18

WorkOrder: N031531

Client ID: CH2HI03

Project: SFPP Norwalk

QC Level: RTNE

Date Received: 8/3/2018

Comments: Report metals, TPH and VOC preliminary data on 24-hr TAT

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N031531-001A	EFF-08-03	8/3/2018 12:50:00 PM	8/6/2018	Wastewater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
			8/6/2018		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N031531-001B			8/6/2018		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			8/6/2018		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			8/6/2018		EPA 8015B	Total TPH	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
N031531-001C			8/6/2018			AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/6/2018		EPA 200.8	TOTAL METALS BY ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/6/2018		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/6/2018			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N031531-001D			8/10/2018		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C - SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/10/2018		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N031531-002A	FOLDER	8/6/2018	8/6/2018		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			8/6/2018		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB



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GLS

800-322-5555
www.gso.com

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

Tracking #: 541571255

SDS



Ship To
ASSET LABORATORIES
MARLON CARTIN
3151 W. POST RD.,
LAS VEGAS, CA 89118

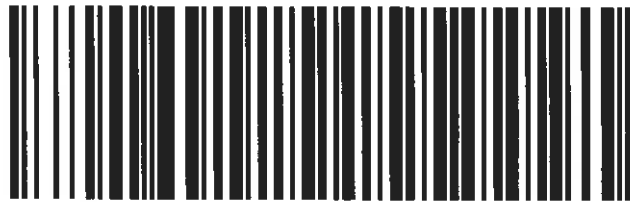
LVS
LAS VEGAS

A

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

C89102A

Delivery Instructions:
HOLD FOR PICKUP
Signature Type: NOT REQUIRED



88434455

Print Date: 8/3/2018 5:25 PM

Package 3 of 3

LABEL INSTRUCTIONS:

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

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or Inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the GSO service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gso.com.

112 # 2
4.2°C

CLIENT CORRESPONDENCE LOG

DATE: 8/15/2018 10:09:20 AM

Client Name: -CH2HI03

ATL Workorder No.: N03153

DATE	CONTACT	CALL IN/OUT	ISSUE / PROBLEM	COMMENTS/CORRECTIVE ACTION	INITIAL
8/15/2018 10:08:44	V. Carino	OUT	Vladimir was contacted on Friday the 10th about the power outage and sample for Phenols cannot be extracted within the hold time period.	Vladimir agreed to hold the current sample and they will just re-collect sample for Phenols the week of 8/13.	marlone



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"Serving Clients with Passion and Professionalism"

August 24, 2018

Eric Davis
CH2MHill
1000 Wilshire Blvd.
Los Angeles, CA 90017

TEL:

FAX:

Workorder No.: N031731

RE: SFPP Norwalk

Attention: Eric Davis

Enclosed are the results for sample(s) received on August 16, 2018 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,



Quennie Manimtim
Laboratory Director

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CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N031731

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

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

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

Sample was analyzed within method holding time.

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

Analytical Comments for EPA 8270CSIM:

RPD for Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) is outside criteria. Analyte recovery on both met acceptance criteria.

Surrogate recovery was above the laboratory acceptable limit in Laboratory Control Sample Duplicate (LCSD). Sample results were non-detect (ND) for analytes of interest therefore reanalysis of the sample was not necessary.



CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N031731
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N031731-001A	EFF-08-16	Wastewater	8/16/2018 8:00:00 AM	8/16/2018	8/24/2018



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 24-Aug-18

CLIENT: CH2MHill
Lab Order: N031731
Project: SFPP Norwalk
Lab ID: N031731-001

Client Sample ID: EFF-08-16
Collection Date: 8/16/2018 8:00:00 AM
Matrix: WASTEWATER

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

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3510C

EPA 8270C

RunID:	NV00922-MS3_180822B	QC Batch:	70335	PrepDate:	8/22/2018	Analyst:	JJS
Phenol	ND	0.34	1.0	µg/L	1	8/23/2018 03:39 AM	
Surr: 1,2-Dichlorobenzene-d4	68.0	0	16-120	%REC	1	8/23/2018 03:39 AM	
Surr: 2-Fluorobiphenyl	80.0	0	25-120	%REC	1	8/23/2018 03:39 AM	
Surr: 4-Terphenyl-d14	105	0	46-132	%REC	1	8/23/2018 03:39 AM	
Surr: Phenol-d5	28.0	0	15-120	%REC	1	8/23/2018 03:39 AM	

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



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CLIENT: CH2MHill
Work Order: N031731
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270WATER_SIMEXT

Sample ID: LCS-70335	SampType: LCS	TestCode: 8270WATER_	Units: µg/L	Prep Date: 8/22/2018	RunNo: 127130						
Client ID: LCSW	Batch ID: 70335	TestNo: EPA 8270C EPA 3510C		Analysis Date: 8/23/2018	SeqNo: 3118767						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	1.590	1.0	6.000	0	26.5	24	120				
Surr: 1,2-Dichlorobenzene-d4	0.530		1.000		53.0	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	0.170		1.000		17.0	15	120				

Sample ID: LCSD-70335	SampType: LCSD	TestCode: 8270WATER_	Units: µg/L	Prep Date: 8/22/2018	RunNo: 127130						
Client ID: LCSS02	Batch ID: 70335	TestNo: EPA 8270C EPA 3510C		Analysis Date: 8/23/2018	SeqNo: 3118768						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	2.760	1.0	6.000	0	46.0	24	120	1.590	53.8	20	R
Surr: 1,2-Dichlorobenzene-d4	0.680		1.000		68.0	16	120		0		
Surr: 2-Fluorobiphenyl	0.980		1.000		98.0	25	120		0		
Surr: 4-Terphenyl-d14	1.410		1.000		141	46	132		0		S
Surr: Phenol-d5	0.290		1.000		29.0	15	120		0		

Sample ID: MB-70335	SampType: MBLK	TestCode: 8270WATER_	Units: µg/L	Prep Date: 8/22/2018	RunNo: 127130						
Client ID: PBW	Batch ID: 70335	TestNo: EPA 8270C EPA 3510C		Analysis Date: 8/23/2018	SeqNo: 3118769						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	ND	1.0									
Surr: 1,2-Dichlorobenzene-d4	0.500		1.000		50.0	16	120				
Surr: 2-Fluorobiphenyl	0.650		1.000		65.0	25	120				
Surr: 4-Terphenyl-d14	0.990		1.000		99.0	46	132				
Surr: Phenol-d5	0.210		1.000		21.0	15	120				

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
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits



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 ORELAP/NELAP Cert 4046

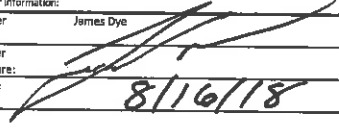
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N031731

Asset Laboratories
 3151 W. Post Road
 Las Vegas, NV 89118
 Tel: 702-307-2659 Fax: 702-307-2691
 Marlon Cartin (marlon@assetlaboratories.com)

CHAIN OF CUSTODY RECORD

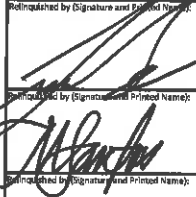
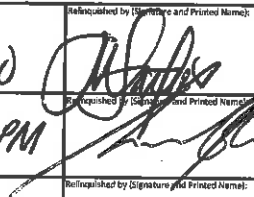

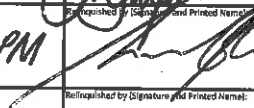
DATE: 8/16/18
 PAGE: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Section D Sampler Information:	
Company: Kinder Morgan Energy Partners Attention: Steve Defibaugh		Report To: Eric Davis		Attention: Steve Defibaugh - Ref. AFE# 81195		Sampler Name: James Dye	
Address: 1100 Town & Country Road Orange, CA 92868		Copy To: Steve Defibaugh		Company Name: Kinder Morgan Energy Partners		Sampler Signature: 	
Email To: steve_defibaugh@kindermorgan.com eric.davis@ch2m.com		Purchase Order No.:		Address: 1100 Town & Country Road Orange, CA 92868		Sample Date: 8/16/18	
Phone: 714-560-4802 Fax: 714-560-4801		Project Name: SPPP Norwalk		ATI Project Manager: Marlon Cartin			

ITEM #	SAMPLE ID	LOCATION/ DESCRIPTION	MATRIX	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	TOTAL # OF CONTAINERS	CONTAINER TYPE					Analysis Test	Comments	
								V	V	A	P	A			
								# OF CONTAINERS	3	3	2	1	2		
								PRESERVATIVE	H	M	-	N	-		
								VOLUME (mL)	40	40	1000	500	1000		
								SAMPLING							
1	EFF-08-16	EFFLUENT	WW	G	8/16/18	0800									
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															

10E, 1R, 2 3.80E
 650 4797

N031731-01
 Report metals, TPH and VOC preliminary data on 24-hr TAT
 Report total Xylenes

Relinquished by (Signature and Printed Name):  Date / Time: 8/16/18 0810	Relinquished by (Signature and Printed Name):  Date / Time: 8/16/18 4:11 PM	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:
Relinquished by (Signature and Printed Name):  Date / Time: 8/16/18 4:35 PM	Relinquished by (Signature and Printed Name):  Date / Time: 8/17/18 2:00 PM		

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: 8/16/2018 Workorder: N031731
 Rep sample Temp (Deg C): 3.8 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 4797 Packing Material Used: Bubble Wrap
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

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

Comments:

For: 
 Checklist Completed By: MBC 8/20/2018

Reviewed By:  08/22/18

ASSET Laboratories

WORK ORDER Summary

20-Aug-18

WorkOrder: N031731

Client ID: CH2HI03

Project: SFPP Norwalk

QC Level: RTNE

Date Received: 8/16/2018

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N031731-001A	EFF-08-16	8/16/2018 8:00:00 AM	8/23/2018	Wastewater	EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C - SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/23/2018		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N031731-002A	FOLDER	8/23/2018	8/23/2018		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			8/23/2018		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

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800-322-5555
www.gso.com**Ship From**ASSET LABORATORIES
MOLKY BRAR
11110 ARTESIA BLVD. SUITE B
CERRITOS, CA 90703

Tracking #: 541724797

CPS

**Ship To**ASSET LABORATORIES
MARLON CARTIN
3151 W. POST RD.,
LAS VEGAS, NV 89118LVS
LAS VEGAS

A

COD: \$0.00

Weight: 0 lb(s)

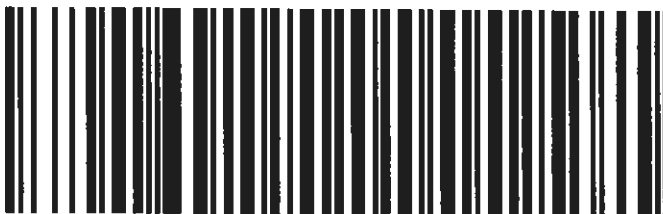
Reference:

C89102A

Delivery Instructions:

HOLD FOR PICK-UP

Signature Type: NOT REQUIRED



89122114

Print Date: 8/16/2018 5:19 PM

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

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:By giving us your shipment to deliver, you agree to all of the GSO service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gso.com.

September 17, 2018

Eric Davis
CH2MHill
1000 Wilshire Blvd.
Los Angeles, CA 90017

TEL:

FAX:

Workorder No.: N032002

RE: SFPP Norwalk

Attention: Eric Davis

Enclosed are the results for sample(s) received on September 07, 2018 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,



Quennie Manimtim
Laboratory Director

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CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N032002

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

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

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

Sample was analyzed within method holding time.

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

Analytical Comment for EPA 200.8:

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

Analytical Comment for EPA 8015B_DRO/ORO:

Method Blank has hit above the reporting limit for ORO. Sample results were non-detect (ND) for analytes of interest therefore reanalysis of the sample was not necessary.

Analytical Comment for EPA 8015B_GRO:

Surrogate recovery biased high in N032002-001 and Method Blank (MB) possibly due to matrix interferences. Sample results were non-detect (ND) for analytes of interest therefore reanalysis of the sample was not necessary.

Analytical Comment for EPA 8270C_SIM_Phenol:

Surrogate 4-Terphenyl-d14 recovery biased high in Method Blank (MB), Matrix Spike (MS), Matrix Spike Duplicate (MSD) and N032002-001. Sample results were non-detect (ND) for analytes of interest



CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N032002

CASE NARRATIVE

therefore reanalysis of the sample was not necessary.



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CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N032002
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N032002-001A	EFF-09-07	Wastewater	9/7/2018 1:15:00 PM	9/7/2018	9/17/2018
N032002-001B	EFF-09-07	Wastewater	9/7/2018 1:15:00 PM	9/7/2018	9/17/2018
N032002-001C	EFF-09-07	Wastewater	9/7/2018 1:15:00 PM	9/7/2018	9/17/2018
N032002-001D	EFF-09-07	Wastewater	9/7/2018 1:15:00 PM	9/7/2018	9/17/2018



ANALYTICAL RESULTS

Print Date: 17-Sep-18

ASSET Laboratories

CLIENT: CH2MHill
Lab Order: N032002
Project: SFPP Norwalk
Lab ID: N032002-001

Client Sample ID: EFF-09-07
Collection Date: 9/7/2018 1:15:00 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_180914B	QC Batch: 70647	PrepDate: 9/14/2018	Analyst: RRS			
Phenol	ND	0.33	1.0	µg/L	1	9/14/2018 06:44 PM
Surr: 1,2-Dichlorobenzene-d4	82.0	0	16-120	%REC	1	9/14/2018 06:44 PM
Surr: 2-Fluorobiphenyl	91.0	0	25-120	%REC	1	9/14/2018 06:44 PM
Surr: 4-Terphenyl-d14	142	0	46-132	S %REC	1	9/14/2018 06:44 PM
Surr: Phenol-d5	29.0	0	15-120	%REC	1	9/14/2018 06:44 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS8_180908A	QC Batch: R18VW072	PrepDate:	Analyst: QBM			
1,1-Dichloroethane	ND	0.45	0.50	µg/L	1	9/8/2018 11:41 AM
1,2-Dichloroethane	ND	0.29	0.50	µg/L	1	9/8/2018 11:41 AM
Benzene	ND	0.34	1.0	µg/L	1	9/8/2018 11:41 AM
Ethylbenzene	ND	0.31	1.0	µg/L	1	9/8/2018 11:41 AM
m,p-Xylene	ND	0.23	1.0	µg/L	1	9/8/2018 11:41 AM
MTBE	ND	0.34	1.0	µg/L	1	9/8/2018 11:41 AM
o-Xylene	ND	0.31	1.0	µg/L	1	9/8/2018 11:41 AM
Tert-Butanol	ND	2.4	5.0	µg/L	1	9/8/2018 11:41 AM
Toluene	ND	0.46	2.0	µg/L	1	9/8/2018 11:41 AM
Xylenes, Total	ND	1.5	2.0	µg/L	1	9/8/2018 11:41 AM
Surr: 1,2-Dichloroethane-d4	107	0	72-119	%REC	1	9/8/2018 11:41 AM
Surr: 4-Bromofluorobenzene	101	0	76-119	%REC	1	9/8/2018 11:41 AM
Surr: Dibromofluoromethane	109	0	85-115	%REC	1	9/8/2018 11:41 AM
Surr: Toluene-d8	105	0	81-120	%REC	1	9/8/2018 11:41 AM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID: NV00922-GC3_180910A	QC Batch: 70581	PrepDate: 9/10/2018	Analyst: RRS				
TPH-Diesel (C13-C22)	18	15	25	J	µg/L	1	9/10/2018 10:48 PM
TPH-Oil (C23-C36)	17	14	25	J	µg/L	1	9/10/2018 10:48 PM
Surr: Octacosane	86.9	0	26-152	%REC	1	9/10/2018 10:48 PM	
Surr: p-Terphenyl	89.0	0	57-132	%REC	1	9/10/2018 10:48 PM	

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: NV00922-GC4_180908A	QC Batch: E18VW069	PrepDate:	Analyst: QBM				
TPH-Gasoline (C4-C12)	35	16	50	J	µg/L	1	9/8/2018 11:08 AM

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: 17-Sep-18

CLIENT: CH2Mhill
Lab Order: N032002
Project: SFPP Norwalk
Lab ID: N032002-001

Client Sample ID: EFF-09-07
Collection Date: 9/7/2018 1:15:00 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_180908A	QC Batch: E18VW069				PrepDate:		Analyst: QBM
Surr: Chlorobenzene - d5	138	0	74-138	S	%REC	1	9/8/2018 11:08 AM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 245.1

RunID: NV00922-AA1_180910B	QC Batch: 70572				PrepDate: 9/10/2018		Analyst: CEI
Mercury	0.024	0.018	0.050	J	µg/L	1	9/10/2018 01:48 PM

TOTAL METALS BY ICPMS

EPA 200.8

RunID: NV00922-ICP7_180911A	QC Batch: 70574				PrepDate: 9/10/2018		Analyst: CEI
Copper	ND	0.26	0.50		µg/L	1	9/11/2018 02:17 PM
Lead	ND	0.13	0.50		µg/L	1	9/11/2018 02:17 PM
Zinc	ND	0.27	1.0		µg/L	1	9/11/2018 02:17 PM

TOTAL TPH

EPA 8015B

RunID: NV00922-GC3_180910A	QC Batch: R127510				PrepDate:		Analyst: RRS
Total TPH	70	16	100	J	ug/L	1	9/10/2018

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: N032002
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: MB-70574	SampType: MBLK	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 9/10/2018	RunNo: 127528							
Client ID: PBW	Batch ID: 70574	TestNo: EPA 200.8	Analysis Date: 9/11/2018	SeqNo: 3136279							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.446	0.50									J
Lead	ND	0.50									
Zinc	ND	1.0									

Sample ID: LCS-70574	SampType: LCS	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 9/10/2018	RunNo: 127528							
Client ID: LCSW	Batch ID: 70574	TestNo: EPA 200.8	Analysis Date: 9/11/2018	SeqNo: 3136280							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	10.795	0.50	10.00	0	108	85	115				
Lead	10.123	0.50	10.00	0	101	85	115				
Zinc	200.228	1.0	200.0	0	100	85	115				

Sample ID: N032002-001C-DUP	SampType: DUP	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 9/10/2018	RunNo: 127528							
Client ID: ZZZZZ	Batch ID: 70574	TestNo: EPA 200.8	Analysis Date: 9/11/2018	SeqNo: 3136291							
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	
Zinc	ND	1.0						0	0	20	

Sample ID: N032002-001C-MS	SampType: MS	TestCode: 200.8_W_SFPP Units: µg/L	Prep Date: 9/10/2018	RunNo: 127528							
Client ID: ZZZZZ	Batch ID: 70574	TestNo: EPA 200.8	Analysis Date: 9/11/2018	SeqNo: 3136293							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	7.190	0.50	10.00	0	71.9	75	125				S
Lead	9.958	0.50	10.00	0	99.6	75	125				
Zinc	176.029	1.0	200.0	0	88.0	75	125				

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N032002
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W_SFPP

Sample ID: N032002-001C-MSD		SampType: MSD		TestCode: 200.8_W_SFPP Units: µg/L			Prep Date: 9/10/2018		RunNo: 127528		
Client ID: ZZZZZZ		Batch ID: 70574		TestNo: EPA 200.8			Analysis Date: 9/11/2018		SeqNo: 3136294		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	7.244	0.50	10.00	0	72.4	75	125	7.190	0.746	20	S
Lead	9.863	0.50	10.00	0	98.6	75	125	9.958	0.956	20	
Zinc	175.904	1.0	200.0	0	88.0	75	125	176.0	0.0711	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 | Calculations are based on raw values | |



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CLIENT: CH2MHill
Work Order: N032002
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W_LL

Sample ID: MB-70572	SampType: MBLK	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 9/10/2018	RunNo: 127498						
Client ID: PBW	Batch ID: 70572	TestNo: EPA 245.1		Analysis Date: 9/10/2018	SeqNo: 3134748						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.050

Sample ID: LCS-70572	SampType: LCS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 9/10/2018	RunNo: 127498						
Client ID: LCSW	Batch ID: 70572	TestNo: EPA 245.1		Analysis Date: 9/10/2018	SeqNo: 3134749						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.237 0.050 2.500 0 89.5 85 115

Sample ID: N032002-001C-MS	SampType: MS	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 9/10/2018	RunNo: 127498						
Client ID: ZZZZZ	Batch ID: 70572	TestNo: EPA 245.1		Analysis Date: 9/10/2018	SeqNo: 3134750						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.315 0.050 2.500 0.02374 91.6 75 125

Sample ID: N032002-001C-MSD	SampType: MSD	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 9/10/2018	RunNo: 127498						
Client ID: ZZZZZ	Batch ID: 70572	TestNo: EPA 245.1		Analysis Date: 9/10/2018	SeqNo: 3134751						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.387 0.050 2.500 0.02374 94.5 75 125 2.315 3.05 20

Sample ID: N032002-001C-DUP	SampType: DUP	TestCode: 245.1_W_LL	Units: µg/L	Prep Date: 9/10/2018	RunNo: 127498						
Client ID: ZZZZZ	Batch ID: 70572	TestNo: EPA 245.1		Analysis Date: 9/10/2018	SeqNo: 3134755						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.022 0.050 0.02374 0 20 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 | Calculations are based on raw values | |



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CLIENT: CH2MHill
Work Order: N032002
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-70581	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 9/10/2018	RunNo: 127510						
Client ID: PBW	Batch ID: 70581	TestNo: EPA 8015B EPA 3510C		Analysis Date: 9/10/2018	SeqNo: 3135383						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	24.750	25									J
TPH-Oil (C23-C36)	26.502	25									
Surr: Octacosane	76.658		80.00		95.8	26	152				
Surr: p-Terphenyl	73.135		80.00		91.4	57	132				

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N032002
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

Sample ID: MB-R127510	SampType: MBLK	TestCode: 8015_W_SFP Units: ug/L	Prep Date:	RunNo: 127510							
Client ID: PBW	Batch ID: R127510	TestNo: EPA 8015B	Analysis Date: 9/10/2018	SeqNo: 3136220							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	84.252	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 | Calculations are based on raw values | |



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CLIENT: CH2MHill
Work Order: N032002
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFP

Sample ID: E180908LCS	SampType: LCS	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 127467							
Client ID: LCSW	Batch ID: E18VW069	TestNo: EPA 8015B	Analysis Date: 9/8/2018	SeqNo: 3135254							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1026.000	50	1000	0	103	67	136				
Surr: Chlorobenzene - d5	54097.000		50000		108	74	138				

Sample ID: E180908MB2	SampType: MBLK	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 127467							
Client ID: PBW	Batch ID: E18VW069	TestNo: EPA 8015B	Analysis Date: 9/8/2018	SeqNo: 3135256							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	33.000	50									J
Surr: Chlorobenzene - d5	71765.000		50000		144	74	138				S

Sample ID: N032002-001AMS	SampType: MS	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 127467							
Client ID: ZZZZZ	Batch ID: E18VW069	TestNo: EPA 8015B	Analysis Date: 9/8/2018	SeqNo: 3135258							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1051.000	50	1000	35.00	102	67	136				
Surr: Chlorobenzene - d5	57981.000		50000		116	74	138				

Sample ID: N032002-001AMSD	SampType: MSD	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 127467							
Client ID: ZZZZZ	Batch ID: E18VW069	TestNo: EPA 8015B	Analysis Date: 9/8/2018	SeqNo: 3135259							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1049.000	50	1000	35.00	101	67	136	1051	0.190	30	
Surr: Chlorobenzene - d5	57985.000		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 | Calculations are based on raw values | |



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CLIENT: CH2MHill
Work Order: N032002
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: R180908LCS		SampType: LCS		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 127474			
Client ID: LCSW		Batch ID: R18VW072		TestNo: EPA 8260B		Analysis Date: 9/8/2018		SeqNo: 3133594			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	17.910	0.50	20.00	0	89.6	69	133				
1,2-Dichloroethane	17.390	0.50	20.00	0	87.0	69	132				
Benzene	18.190	1.0	20.00	0	91.0	81	122				
Ethylbenzene	17.920	1.0	20.00	0	89.6	73	127				
m,p-Xylene	36.470	1.0	40.00	0	91.2	76	128				
MTBE	17.510	1.0	20.00	0	87.6	65	123				
o-Xylene	17.580	1.0	20.00	0	87.9	80	121				
Tert-Butanol	91.620	5.0	100.0	0	91.6	70	130				
Toluene	18.310	2.0	20.00	0	91.6	77	122				
Xylenes, Total	54.050	2.0	60.00	0	90.1	75	125				
Surr: 1,2-Dichloroethane-d4	26.930		25.00		108	72	119				
Surr: 4-Bromofluorobenzene	26.840		25.00		107	76	119				
Surr: Dibromofluoromethane	27.180		25.00		109	85	115				
Surr: Toluene-d8	27.410		25.00		110	81	120				

Sample ID: N032002-001AMS		SampType: MS		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 127474			
Client ID: ZZZZZ		Batch ID: R18VW072		TestNo: EPA 8260B		Analysis Date: 9/8/2018		SeqNo: 3133595			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	16.490	0.50	20.00	0	82.5	69	133				
1,2-Dichloroethane	16.020	0.50	20.00	0	80.1	69	132				
Benzene	16.930	1.0	20.00	0	84.6	81	122				
Ethylbenzene	17.310	1.0	20.00	0	86.6	73	127				
m,p-Xylene	35.140	1.0	40.00	0	87.9	76	128				
MTBE	15.590	1.0	20.00	0	78.0	65	123				
o-Xylene	17.080	1.0	20.00	0	85.4	80	121				
Tert-Butanol	80.810	5.0	100.0	0	80.8	70	130				
Toluene	17.140	2.0	20.00	0	85.7	77	122				
Xylenes, Total	52.220	2.0	60.00	0	87.0	75	125				
Surr: 1,2-Dichloroethane-d4	24.340		25.00		97.4	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 | Calculations are based on raw values | |



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N032002
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N032002-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 127474						
Client ID: ZZZZZ	Batch ID: R18VW072	TestNo: EPA 8260B	Analysis Date: 9/8/2018	SeqNo: 3133595							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	25.740		25.00		103	76	119				
Surr: Dibromofluoromethane	25.290		25.00		101	85	115				
Surr: Toluene-d8	25.770		25.00		103	81	120				

Sample ID: N032002-001AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 127474						
Client ID: ZZZZZ	Batch ID: R18VW072	TestNo: EPA 8260B	Analysis Date: 9/8/2018	SeqNo: 3133596							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	17.700	0.50	20.00	0	88.5	69	133	16.49	7.08	20	
1,2-Dichloroethane	16.990	0.50	20.00	0	85.0	69	132	16.02	5.88	20	
Benzene	18.080	1.0	20.00	0	90.4	81	122	16.93	6.57	20	
Ethylbenzene	18.430	1.0	20.00	0	92.2	73	127	17.31	6.27	20	
m,p-Xylene	36.510	1.0	40.00	0	91.3	76	128	35.14	3.82	20	
MTBE	16.490	1.0	20.00	0	82.5	65	123	15.59	5.61	20	
o-Xylene	17.960	1.0	20.00	0	89.8	80	121	17.08	5.02	20	
Tert-Butanol	83.900	5.0	100.0	0	83.9	70	130	80.81	3.75	20	
Toluene	18.410	2.0	20.00	0	92.0	77	122	17.14	7.14	20	
Xylenes, Total	54.470	2.0	60.00	0	90.8	75	125	52.22	4.22	20	
Surr: 1,2-Dichloroethane-d4	25.390		25.00		102	72	119		0		
Surr: 4-Bromofluorobenzene	26.230		25.00		105	76	119		0		
Surr: Dibromofluoromethane	25.480		25.00		102	85	115		0		
Surr: Toluene-d8	26.100		25.00		104	81	120		0		

Sample ID: R180908MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 127474						
Client ID: PBW	Batch ID: R18VW072	TestNo: EPA 8260B	Analysis Date: 9/8/2018	SeqNo: 3133599							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	ND	0.50									
1,2-Dichloroethane	ND	0.50									
Benzene	ND	1.0									

Qualifiers:

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



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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N032002
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: R180908MB3		SampType: MBLK		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 127474			
Client ID: PBW		Batch ID: R18VW072		TestNo: EPA 8260B		Analysis Date: 9/8/2018		SeqNo: 3133599			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
MTBE	ND	1.0									
o-Xylene	ND	1.0									
Tert-Butanol	ND	5.0									
Toluene	ND	2.0									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	27.180		25.00		109	72	119				
Surr: 4-Bromofluorobenzene	24.910		25.00		99.6	76	119				
Surr: Dibromofluoromethane	28.020		25.00		112	85	115				
Surr: Toluene-d8	26.420		25.00		106	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 | Calculations are based on raw values | |



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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N032002
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270WATER_SIMEXT

Sample ID: LCS-70647		SampType: LCS		TestCode: 8270WATER_ Units: µg/L		Prep Date: 9/14/2018		RunNo: 127646			
Client ID: LCSW		Batch ID: 70647		TestNo: EPA 8270C EPA 3510C		Analysis Date: 9/14/2018		SeqNo: 3141077			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	2.460	1.0	6.000	0	41.0	24	120				
Surr: 1,2-Dichlorobenzene-d4	0.700		1.000		70.0	16	120				
Surr: 2-Fluorobiphenyl	0.780		1.000		78.0	25	120				
Surr: 4-Terphenyl-d14	1.320		1.000		132	46	132				
Surr: Phenol-d5	0.330		1.000		33.0	15	120				

Sample ID: MB-70647		SampType: MBLK		TestCode: 8270WATER_ Units: µg/L		Prep Date: 9/14/2018		RunNo: 127646			
Client ID: PBW		Batch ID: 70647		TestNo: EPA 8270C EPA 3510C		Analysis Date: 9/14/2018		SeqNo: 3141078			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	ND	1.0									
Surr: 1,2-Dichlorobenzene-d4	0.830		1.000		83.0	16	120				
Surr: 2-Fluorobiphenyl	0.850		1.000		85.0	25	120				
Surr: 4-Terphenyl-d14	1.340		1.000		134	46	132				S
Surr: Phenol-d5	0.220		1.000		22.0	15	120				

Sample ID: N032002-001D-MS		SampType: MS		TestCode: 8270WATER_ Units: µg/L		Prep Date: 9/14/2018		RunNo: 127646			
Client ID: ZZZZZ		Batch ID: 70647		TestNo: EPA 8270C EPA 3510C		Analysis Date: 9/14/2018		SeqNo: 3141080			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	2.430	1.0	6.000	0	40.5	24	120				
Surr: 1,2-Dichlorobenzene-d4	0.760		1.000		76.0	16	120				
Surr: 2-Fluorobiphenyl	0.670		1.000		67.0	25	120				
Surr: 4-Terphenyl-d14	1.730		1.000		173	46	132				S
Surr: Phenol-d5	0.370		1.000		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 | Calculations are based on raw values | |



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CLIENT: CH2MHill
Work Order: N032002
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270WATER_SIMEXT

Sample ID: N032002-001D-MSD		SampType: MSD		TestCode: 8270WATER_ Units: µg/L			Prep Date: 9/14/2018		RunNo: 127646		
Client ID: ZZZZZZ		Batch ID: 70647		TestNo: EPA 8270C EPA 3510C			Analysis Date: 9/14/2018		SeqNo: 3141081		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	2.622	1.0	6.122	0	42.8	24	120	2.430	7.62	20	
Surr: 1,2-Dichlorobenzene-d4	0.816		1.020		80.0	16	120		0		
Surr: 2-Fluorobiphenyl	0.776		1.020		76.0	25	120		0		
Surr: 4-Terphenyl-d14	1.622		1.020		159	46	132		0		S
Surr: Phenol-d5	0.367		1.020		36.0	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 | Calculations are based on raw values | |



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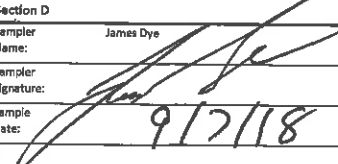
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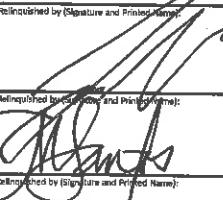
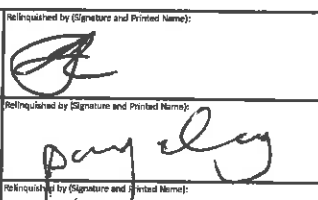

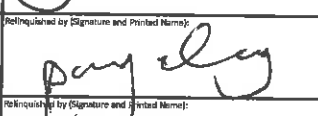
Asset Laboratories
 3151 W. Post Road
 Las Vegas, NV 89118
 Tel: 702-307-2659 Fax: 702-307-2691
 Marlon Cartin (marlon@assetlaboratories.com)

CHAIN OF CUSTODY RECORD

DATE: 9/7/18
 PAGE: 1 of 1

Section A		Section B		Section C		Section D	
Company: Kinder Morgan Energy Partners Attention: Steve Defibaugh		Report To: Eric Davis		Attention: Steve Defibaugh - Ref. AFER 81195		Sampler Name: James Dye	
Address: 1100 Town & Country Road Orange, CA 92668		Copy To: Steve Defibaugh		Company Name: Kinder Morgan Energy Partners		Sampler Signature: 	
Email To: steve_defibaugh@kindermorgan.com eric.davis@ch2m.com		Purchase Order No.:		Address: 1100 Town & Country Road Orange, CA 92668		Sample Date: <u>9/7/18</u>	
Phone: 714-560-4802 Fax: 714-560-4801		Project Name: SFPP Norwalk		ATL Project Manager: Marlon Cartin			

ITEM #	SAMPLE ID	LOCATION/ DESCRIPTION	MATRIX	SAMPLE TYPE (G-GRAB C-COMP)	CONTAINER TYPE			TOTAL # OF CONTAINERS	Analysis Test	PRESERVATIVE					Comments
					# OF CONTAINERS	VOLUME (mL)				V	V	A	P	A	
1	EFF-09-07	EFFLUENT	WW	G	9/7/18	1315	13	X X X X X	X	X	X	X	X	N032002-01 Report metals, TPH and VOC preliminary data on 24-hr TAT Report total Xylenes	
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															

Relinquished by (Signature and Printed Name):  Date / Time: <u>9/7/18 1315</u>	Relinquished by (Signature and Printed Name):  Date / Time: <u>9/7/18 4:30</u>	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:
Relinquished by (Signature and Printed Name):  Date / Time: <u>9/7/18 19:42</u>	Relinquished by (Signature and Printed Name):  Date / Time: <u>9/8/18 0840</u>		
Relinquished by (Signature and Printed Name):	Relinquished by (Signature and Printed Name):		

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	D = NaOH	T = Na2S2O3	J = Jar	B = Tedlar	G = Glass	
Others/Specify:			Others/Specify:			M = Metal	P = Plastic	C = Can	

Handwritten notes:
 4-100
 1315

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: 9/7/2018 Workorder: N032002
 Rep sample Temp (Deg C): 4.1 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 1402 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  9/10/2018

Reviewed By: LG 091118

ASSET Laboratories

WORK ORDER Summary

10-Sep-18

WorkOrder: N032002

Client ID: CH2HI03

Project: SFPP Norwalk

QC Level: RTNE

Date Received: 9/7/2018

Comments: Report metals, TPH and VOC preliminary data on 24-hr TAT

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N032002-001A	EFF-09-07	9/7/2018 1:15:00 PM	9/10/2018	Wastewater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
			9/10/2018		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N032002-001B			9/10/2018		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/10/2018		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/10/2018		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N032002-001C			9/10/2018			AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/10/2018		EPA 200.8	TOTAL METALS BY ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/10/2018		EPA 245.1	MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/10/2018			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N032002-001D			9/14/2018		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C - SIM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/14/2018		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N032002-002A	FOLDER	9/10/2018	9/10/2018		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			9/10/2018		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB



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 www.gso.com

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

Tracking #: 541981402

PDS



Ship To
 ASSET LABORATORIES
 MARLON CARTIN
 3151 W. POST RD.,
 LAS VEGAS, NV 89118

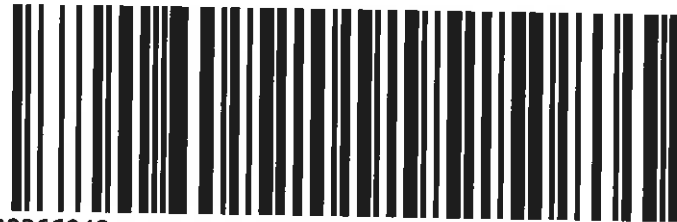
LVS
LAS VEGAS

A

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

C89102A

Delivery Instructions:
 HOLD FOR PICK-UP
Signature Type: STANDARD



90266049

Print Date: 9/7/2018 7:29 PM

Package 2 of 4

LABEL INSTRUCTIONS:

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

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the GSO service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gso.com.

WAL
WAL

Attachment B
Data Quality Assurance/Quality Control

Data Quality Assurance/Quality Control

Data quality was evaluated by examining the holding times, laboratory method blanks, surrogate percent recoveries, laboratory control sample/laboratory control sample duplicates (LCS/LCSD) and matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and relative percent differences (RPDs). Data quality review results for each analysis are outlined in the following subsections.

Analytical Data

The data quality evaluation report covers four normal effluent samples. Samples were collected between July 12 and September 7, 2018. Analyses were performed by Asset Laboratories in Cerritos, California and BC Laboratories in Bakersfield, California. The sample results were reported as four sample delivery groups:

Sample Delivery Groups
N031203
N031531
N031731
N032002

Eleven methods were used to analyze the environmental samples. Samples were collected and submitted directly to the Asset Laboratories for analysis. Asset Laboratories was responsible for shipment of samples BC Laboratories. Samples were analyzed for the following analytes/method:

Parameter	Method
Turbidity	SM2130B
Total suspended solids	SM2540D
Settleable solids	SM2540F
Biochemical oxygen demand	SM5210B
Oil and grease	E1664
Metals	E200.8/E245.1
Ammonia	SM4500NH3G
Total petroleum hydrocarbons – gasoline, diesel and motor oil ranges	SW8015B
Volatile organic compounds	SW8260B
Phenol	SW8270C

Data validation flags were assigned using guidance from the EPA Contract Laboratory National Functional Guidelines for Organic Superfund Methods Data Review (EPA, 2017) and EPA Contract Laboratory National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA, 2017). Multiple flags are routinely applied to specific sample method/matrix/analyte combinations, but there will be only one final flag. A final flag is applied to the data and is the most conservative of the applied data validation flags. The final flag also includes blank sample impacts.

The data validation flags are as follows:

- J = Analyte was present, but the reported value may not be accurate or precise (estimated). The result was estimated because it was less than the referenced reporting limit, but greater than the method detection limit, or because a QC exceedance occurred.
- R = Data were unusable because of deficiencies in the ability to analyze the sample and meet QC criteria.
- U = Analyte was not detected at the specified detection limit.
- UJ = Analyte was not detected, and the specified detection limit may not be accurate or precise (estimated).

Findings

The overall summaries of the data validation findings are contained in the following subsections.

Holding Times

All holding time criteria were met.

Method Blanks

Method blanks were analyzed at the required frequency and were free of contamination that would affect the sample results with the following exceptions:

- TPH-motor oil, TPH-gasoline, TPH-diesel, and total TPH were detected less than the reporting limit (RL) in the method blanks for Method SW8015B. Seven associated results were detected less than five times the blank concentrations and were qualified as not detected and flagged "U" in samples EFF-07-12, EFF-08-03, and EFF-09-07. Total TPH reportable results were adjusted in samples EFF-07-12 and EFF-08-03 to compensate for the fractions qualified as not detected.

Surrogates

All surrogate recovery criteria were met.

Internal Standards

All internal standard criteria were met.

Laboratory Control Samples

LCS/LCSDs were analyzed as required. All accuracy and precision criteria were met.

Matrix Spikes/Matrix Spike Duplicates

The results of MS/MSD analyses provide information about the possible influence of the matrix on either accuracy or precision of the measurements. There were no MS/MSD recovery or RPD exceedances that would affect the sample results with the following exceptions:

- The recovery of copper was less than the lower control limit in the MS and/or MSD of samples EFF-07-12 and EFF-09-07 for Method E200.8, indicating the associated parent sample results are possibly biased low. The associated nondetected results were qualified as estimated and flagged "UJ."

Chain-of-Custody

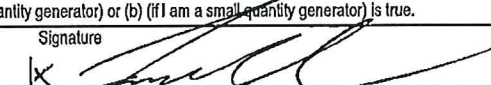
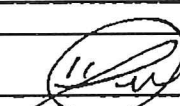
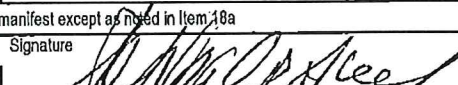
Each sample was documented in a completed chain-of-custody and received at the laboratory in good condition.

Overall Assessment

An overall evaluation of the data indicates that the sample handling, shipment, and analytical procedures have been adequately completed, and that the analytical results are considered usable taking into consideration possible biases as described above.

Attachment C
Waste Manifests

94-T27

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 014823396 JJK					
5. Generator's Name and Mailing Address SFPP, L.P. Norwalk Station 1100 Town and Country Rd. Orange CA 92868				Att: Karina Hankins						
Generator's Phone: 714 560-4887				Generator's Site Address (if different than mailing address) SFPP, L.P. Norwalk Station 15306 Norwalk Blvd. Norwalk CA 90651						
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 DK DBA WORLD OIL RECYCLING 2000 N. ALAMEDA STREET COMPTON CA 90222					U.S. EPA ID Number CAT080013352					
Facility's Phone: 310 537-7100										
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
			No.	Type			D001	D018	134	
	<input checked="" type="checkbox"/>	1. UN1993, Flammable liquids, n.o.s. (Gasoline) 3, PGII	001	TT	3000	G				
		2.								
		3.								
	4.									
14. Special Handling Instructions and Additional Information 1) ERCS#128 Gasoline Well redevelopment water Bill to SFPP, L.P. ATTN: Steve Defibaugh Wilmington										
Always wear appropriate PPE when handling waste. JOB# 01-18-00885										
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/Offero's Printed/Typed Name X JAMES DYIE				Signature 		Month Day Year 17 26 18				
TRANSPORTER	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.:				
	Transporter signature (for exports only):									
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials			Signature		Month Day Year				
	Transporter 1 Printed/Typed Name X Jose Velasquez					17 26 18				
Transporter 2 Printed/Typed Name			Signature		Month Day Year					
DESIGNATED FACILITY	18. Discrepancy									
	18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
	Reconciled quantity 676 with Will			Patriot			8-1-18			
	Manifest Reference Number			U.S. EPA ID Number						
18b. Alternate Facility (or Generator)										
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. H039			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 SOPHAL P. SVAY				Signature 		Month Day Year 07 26 18				

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CAT080033962	2. Page 1 of 1	3. Emergency Response Phone 800-624-9136	4. Manifest Tracking Number 014823356 JJK				
5. Generator's Name and Mailing Address SFPP, L.P. Norwalk Station 1100 Town and Country Rd. Orange CA 92868		Att: Karina Hankins		Generator's Site Address (if different than mailing address) SFPP, L.P. Norwalk Station 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 DK DBA WORLD OIL RECYCLING 2000 N. ALAMEDA STREET COMPTON CA 90222		Facility's Phone: 310 537-7100			U.S. EPA ID Number CAT080013352				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	X	1. UN1993, Waste Flammable liquids, n.o.s. 3, PGII (Gasoline)		001	TT	2500	G	D001	D018 134
		2.							
		3. THIS WASTE STREAM HAS BEEN QUALIFIED FOR RECYCLING/TREATMENT AT THE DeMENNO/KERDOON DBA WORLD OIL RECYCLING FACILITY IN COMPTON, CALIFORNIA. THIS FACILITY HAS THE NECESSARY PERMITS TO RECEIVE YOUR WASTE STREAM AS QUALIFIED.							
		4. OUR EPA NUMBER IS CAT080013352							
14. Special Handling Instructions and Additional Information Gasoline ERG#128 Well Redevelopment Water Bill to SFPP, L.P. Attn: Steve DeFlbaugh Wilmington CA J FERNANDO DE... Always wear appropriate PPE when handling waste. JOB#01-18-01078									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offoror's Printed/Typed Name JAMES DYK				Signature <i>[Signature]</i>		Month Day Year 8 28 18			
TRANSPORTER INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:								
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: Jose Velazquez Signature: <i>[Signature]</i> Month Day Year: 8 28 18 Transporter 2 Printed/Typed Name: Signature: Month Day Year:								
DESIGNATED FACILITY	18. Discrepancy								
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number:								
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number				
	Facility's Phone:								
18c. Signature of Alternate Facility (or Generator)						Month Day Year			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H1039		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 SOPHIA P. SUAY				Signature <i>[Signature]</i>		Month Day Year 08 28 18			

Certificate of Treatment/Recycling

ISSUED TO

SFPP - NORWALK STATION

FOR

MANIFEST NUMBER 014823356JJK

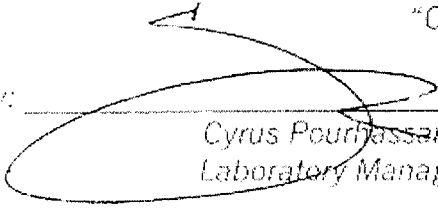
DATE RECEIVED 8/28/2018

The aqueous waste received on the above manifest will be treated to standards mandated by the FEDERAL CLEAN WATER ACT and to effluent requirements established by the Sanitation Districts of Los Angeles County. Waste treatment and recycling is performed under permits granted to DeMENNO/KERDOON, a California Corporation, by the California Department of Toxic Control (DTSC), in coordination with the Environmental Protection Agency, in accordance with the provisions of the Resource Conservation and Recovery Act (RCRA) of 1976, together with applicable federal and state regulations including but not limited to waste discharge requirements established by the Sanitation Districts of Los Angeles County.

When the above described waste material is accepted by DeMENNO/KERDOON and treated/recycled and the aqueous phase discharged for further treatment by the Sanitation Districts, the certificate holder's responsibility for the waste material is eliminated under both RCRA and Proposition 65. Upon request, DeMENNO/KERDOON will issue this certificate that all waste material has been handled in accordance with applicable permits and the certificate holder's liability has been terminated.

DeMENNO/KERDOON
"Compliance Through Recycling"

By:


Cyrus Pourhassanian
Laboratory Manager


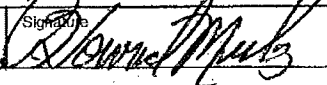
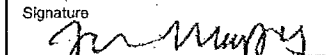
Date: 9/21/2018

2000 North Alameda Street Compton California 90222
Telephone (310) 537-7100 Facsimile (310) 639-2946

NON-HAZARDOUS WASTE MANIFEST

DW 1804676402

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAT080033962		Manifest Document No. NH676402	2. Page 1 of 1	
3. Generator's Name and Mailing Address Sfpp, L.P. Norwalk Station 1100 Town And Country Road Orange CA 92868				Site Address: 15306 Norwalk Boulevard Norwalk, CA 90651		
4. Generator's Phone (714) 560-4887		ATTN: Karina Hankins				
5. Transporter 1 Company Name Clean Harbors Environmental Services, Inc		6. US EPA ID Number MAD039322250		A. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone (761) 792-5000		
9. Designated Facility Name and Site Address Clean Harbors Wilmington LLC 1737 East Denni Street Wilmington, CA 90744		10. US EPA ID Number CAD044429835		C. State Transporter's ID		
				D. Transporter 2 Phone		
				E. State Facility's ID		
				F. Facility's Phone (310) 835-9998		
11. WASTE DESCRIPTION			Containers		13. Total Quantity	
			No.	Type		
a. NON D.O.T. REGULATED, (DEBRIS)			1	DM	80	P
b. NON HAZARDOUS, NON D.O.T. REGULATED, (SOIL)			2	DM	300	P
c. NON D.O.T. REGULATED, (FILTERS)			1	DM	80	P
d.						
G. Additional Descriptions for Materials Listed Above 11a.CH1401785 11b.CH1418957 11c.CH1424321NH				H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information 11a. Gloves/Rags/Debris 11b. Soil Cuttings 11c. Groundwater Treatment System Filters (BIO)				EMERGENCY PHONE #: (800) 483-3713 GENERATOR: Sfpp, L.P. Norwalk Station		
				11A) 1X55DM 11B) 2X55DM 11C) 1X55DM		
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.						
Printed/Typed Name		Signature		Date		
Patrick Loy A				Month Day Year 9 20 18		
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature		Date		
HOWARD MENDEZ				Month Day Year 09 19 18		
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Date		
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.						
Printed/Typed Name		Signature		Date		
Jordan Mapes				Month Day Year 10 4 18		

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

DW1804676402

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAT080033962		Manifest Document No. NH1804676402	2. Page 1 of 1					
3. Generator's Name and Mailing Address Sfpp, L.P. Norwalk Station 1100 Town And Country Road Orange CA 92868				Site Address: 15306 Norwalk Boulevard Norwalk, CA 90651						
4. Generator's Phone (714) 560-4887 ATTN: Karina Hankins										
5. Transporter 1 Company Name Clean Harbors Environmental Services, Inc		6. US EPA ID Number MAD039322250		A. State Transporter's ID						
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone (761) 792-5000						
9. Designated Facility Name and Site Address Clean Harbors San Jose LLC 1021 Berryessa Road San Jose, CA 95133		10. US EPA ID Number CAD059494310		C. State Transporter's ID						
				D. Transporter 2 Phone						
				E. State Facility's ID CAD059494310						
				F. Facility's Phone (408) 441-0962						
11. WASTE DESCRIPTION			Containers		13. Total Quantity	14. Unit WL/Vol.				
			No.	Type						
			a.	NON D.O.T. REGULATED, (DECON WATER)			1	DM	40	P
			b.							
			c.							
G. Additional Descriptions for Materials Listed Above 11a. CH1713515			H. Handling Codes for Wastes Listed Above							
15. Special Handling Instructions and Additional Information 11a. Decon Water 11A) 1X55DM			EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Sfpp, L.P. Norwalk Station							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.										
17. Transporter 1 Acknowledgement of Receipt of Materials				Date						
Printed/Typed Name Patricia Lopez				Signature <i>[Signature]</i>		Month Day Year 9/20/18				
18. Transporter 2 Acknowledgement of Receipt of Materials				Date						
Printed/Typed Name Howard Mendez				Signature <i>[Signature]</i>		Month Day Year 09/20/18				
19. Discrepancy Indication Space										
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.										
Printed/Typed Name David Baker				Signature <i>[Signature]</i>		Month Day Year 10/12/18				

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number CAT080033962	2. Page 1 of 1	3. Emergency Response Phone (800) 483-3718	4. Manifest Tracking Number 011864983 FLE
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5. Generator's Name and Mailing Address Sfpp, L.P. Norwalk Station 1100 Town And Country Road Orange, CA 92668	Generator's Site Address (if different than mailing address) 15306 Norwalk Boulevard Norwalk, CA 90651
Generator's Phone: (714) 960-4887 ATTN: Karina Hankins	

6. Transporter 1 Company Name Clean Harbors Environmental Services, Inc.	U.S. EPA ID Number MAD039322250
7. Transporter 2 Company Name	U.S. EPA ID Number


8. Designated Facility Name and Site Address Clean Harbors Wilmington LLC 1737 East Denni Street Wilmington, CA 90744	U.S. EPA ID Number CAD044429835
Facility's Phone: (310) 835-9998	

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 WL/Vol.	13. Waste Codes		
		No.	Type					
1.	NON-RCRA HAZARDOUS WASTE, SOLID, (FILTERS)	001	DM	80	P	181		
2.								
3.								
4.								

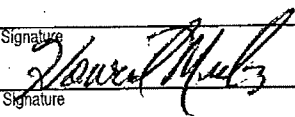
14. Special Handling Instructions and Additional Information 1. CH1424321 D1X55 DM	1. Groundwater Treatment System Filters (LGAC)
--	---

Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf.

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

Generator's/Offoror's Printed/Typed Name Patrick Loya	Signature 	Month 9	Day 20	Year 18
---	---	-------------------	------------------	-------------------

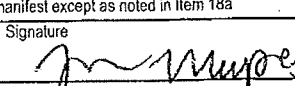
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit: _____ Date leaving U.S.: _____
--	---

17. Transporter Acknowledgment of Receipt of Materials				
Transporter 1 Printed/Typed Name HOWARD MENDER	Signature 	Month 09	Day 20	Year 18
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
Manifest Reference Number: _____					

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

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)			
1. H141	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 Jordan Mapes	Signature 	Month 10	Day 4	Year 18