

REPORT

First Quarter 2017
Remediation Progress Report
SFPP Norwalk Pump Station
Norwalk, California

Prepared for

Kinder Morgan Energy Partners, L.P.

April 11, 2017



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The material and data presented in this report were prepared consistent with current and generally accepted consulting principles and practices. This work was supervised by the following CH2M licensed professional.



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Acronyms and Abbreviations

1,2-DCA	1,2-dichloroethane
Asset	Asset Laboratories
BTEX	benzene, toluene, ethylbenzene, and total xylenes
CH2M	CH2M HILL Engineers, Inc.
EPA	U.S. Environmental Protection Agency
GWE	groundwater extraction
GWTS	groundwater treatment system
LGAC	liquid-phase granular activated carbon
MTBE	methyl tertiary butyl ether
O&M	operations and maintenance
OWS	oil-water separator
RTO	regenerative thermal oxidizer
RWQCB	California Regional Water Quality Control Board, Los Angeles Region
SFPP	SFPP, L.P., an operating partnership of Kinder Morgan Energy Partners, L.P.
SVE	soil vapor extraction
TBA	tertiary butyl alcohol
TFE	total fluids extraction
TPH	total petroleum hydrocarbons
TPH-d	total petroleum hydrocarbons quantified as diesel
TPH-g	total petroleum hydrocarbons quantified as gasoline
TPH-o	total petroleum hydrocarbons quantified as oil
TPH-total	total petroleum hydrocarbons quantified as gasoline, diesel, and oil
VOC	volatile organic compound
WSB	West Side Barrier

Introduction

CH2M HILL Engineers, Inc. (CH2M) has prepared this report on behalf of SFPP, L.P. (SFPP), an operating partnership of Kinder Morgan Energy Partners, L.P., to summarize remediation activities performed at the former SFPP Norwalk Pump Station located within the Defense Fuel Support Point Norwalk, at 15306 Norwalk Boulevard, Norwalk, California (the site; Figure 1) during the first quarter 2017 reporting period.

This progress report is submitted pursuant to a request from the California Regional Water Quality Control Board, Los Angeles Region (RWQCB) in its letter dated October 25, 2006 (RWQCB, 2006). Additional site background information can be found in the report titled, *Conceptual Site Model and Proposed Alternate Interim Remedy for Soil, Groundwater, and LNAPL* (CH2M, 2013), and in previously submitted semiannual groundwater monitoring reports.

This report summarizes the remediation systems present at the site and describes remediation activities for the period of January through March 2017 with documentation of the following tasks:

- Operations and maintenance (O&M) of remediation systems performed by SFPP field personnel
- Remediation system evaluation

The remediation activities performed from January through March 2017 and the progress achieved through those activities are summarized in the following sections.

Remediation Systems

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

Operation of the West Side Barrier (WSB) GWE system (WSB system) for remediation of the western offsite area was discontinued in August 2008 based on the reduced lateral extent and low concentrations of volatile organic compounds (VOCs) west of the site.

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

- South-Central Area
 - 20 TFE wells
 - 24 onsite and 6 offsite SVE wells (most collocated with TFE wells)
 - 2 horizontal SVE wells
 - 1 horizontal biosparge well
- Southeastern Area (24-inch Block Valve Area)
 - 4 TFE wells (GMW-O-15, GMW-O-18, GMW-36, and GMW-SF-9)
 - 3 SVE wells (collocated with TFE wells)
 - 1 GWE well (GMW-SF-10)

A summary of remediation wells in the south-central, southeastern, and WSB areas is presented in Table 1. Table 1 includes well identifications, well construction details, well use, and operational status at the end of the first quarter 2017. The remediation system layout is shown on Figure 2. A brief description of each system is provided below.

2.1 SVE System

SVE is performed using a blower to remove soil vapors from the south-central and southeastern areas. The extracted vapors are conveyed to a knock-out tank that separates entrained moisture from the soil vapors. Accumulated moisture in the knock-out tank is treated by the main groundwater treatment system (GWTS) described below. The soil vapors are then treated in a regenerative thermal oxidizer (RTO) where VOCs are converted to carbon dioxide and water prior to being discharged to the atmosphere. Operation of the GWTS and SVE system is conducted in accordance with Permits to Construct (Application Nos. 569588 and 567723, respectively; ID 110835) issued by the South Coast Air Quality Management District.

2.2 Groundwater Treatment System

The main GWTS handles free product and groundwater recovered from the south-central and southeastern parts of the site. Free product and groundwater recovered by pneumatically operated top-loading total fluid pumps and bottom-loading groundwater pumps are piped to an oil-water separator (OWS). Free product, if any, from the OWS is collected in a storage tank and recycled at an offsite location. Water from the OWS is treated using liquid-phase granular activated carbon (LGAC). Treated water is routed through an onsite 3,000-gallon equalization tank. Two fluidized bed bioreactors

installed downstream of the equalization tank treat fuel oxygenates such as tertiary butyl alcohol (TBA) and methyl tertiary butyl ether (MTBE). The treated groundwater then passes through polishing LGAC units prior to discharge to a storm drain that leads to Coyote Creek. Discharge to Coyote Creek is performed in accordance with a National Pollutant Discharge Elimination System permit (No. CA0063509; Order R4-2016-0309).

2.3 Horizontal Biosparge System

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

The compressor used to deliver ambient air to the biosparge well has a maximum design rate of approximately 500 standard cubic feet per minute. SFPP's SVE system has an interlock that ensures the biosparge system cannot operate unless the SVE system is operating. Operation of the SVE system reduces the potential for offgassing of VOCs during biosparge operations. Pilot testing of the biosparge system commenced in early January 2016 and continued through October 2016. Soil vapor data collected as part of the pilot testing have been submitted to the RWQCB and Restoration Advisory Board under separate cover. Preparation of a comprehensive evaluation report that incorporates soil vapor and groundwater data is currently in process.

Operations and Maintenance

During the first quarter 2017 reporting period, O&M of the remediation systems included the following tasks:

- Performed ongoing weekly maintenance on the GWTS.
- Removed, inspected, and repaired existing TFE/GWE pumps and associated discharge lines.
- Installed pumps and associated equipment necessary for TFE at select wells with measurable free product.
- Performed mechanical rehabilitation of select TFE wells in the south-central and southeastern areas.

The remediation systems operated during the first quarter 2017 with the following exceptions:

- The SVE and biosparging systems have been offline since November 1, 2016, to facilitate removal of the old thermal oxidizer and installation of the new RTO.
- A GWTS shutdown occurred on January 29, 2017, due to a power outage. The GWTS was restarted on January 31, 2017.

During this reporting period, and when the system was operating, GWTS inspections were performed on a weekly basis. For these inspections, volumes of extracted groundwater, hours of operation, and other system parameters were recorded during system operation.

During the first quarter 2017, the GWTS was operational approximately 96 percent of the time. The groundwater remediation system operation activities for the first quarter 2017 are summarized in Table 2. The extracted groundwater analytical results for the first quarter 2017 are summarized in Table 3. Historical (post-2007) gauging results for select TFE and SVE wells are provided in Table 4. Pre-2007 data can be found in previous semiannual groundwater monitoring reports.

Water samples from the GWTS influent were collected on January 19, February 3, and March 3, 2017, during the first quarter 2017. The water samples were delivered to Asset Laboratories (Asset) of Las Vegas, Nevada, for analysis. Asset is certified by the California Department of Public Health Environmental Laboratory Accreditation Program.

Asset analyzed the water samples for the following:

- Total petroleum hydrocarbons (TPH) quantified as gasoline (TPH-g), TPH quantified as diesel (TPH-d), and TPH quantified as oil (TPH-o) (collectively referred to as TPH-total) using U.S. Environmental Protection Agency (EPA) Method 8015(M)
- VOCs using EPA Method 8260B

The laboratory analytical reports and chain-of-custody documents for these samples are included in Appendix A.

Summary of Remediation Progress

The SVE and biosparge systems have been offline since November 1, 2016, to facilitate the removal of the old thermal oxidizer and installation of a new RTO. It is anticipated that these systems will be operational by the end of the second quarter 2017.

A total of 1,224,622 gallons of groundwater was extracted during the first quarter 2017 (Table 2). No water was extracted from the WSB area during the first quarter 2017. Approximately 99.9 million gallons of groundwater has been extracted from the south-central, southeastern, and WSB areas since GWTS operations first began in 1996.

GWE was discontinued in the WSB region during the third quarter 2008 based on the reduced lateral extent and low concentrations of MTBE and 1,2-dichloroethane (1,2-DCA) west of the site. 1,2-DCA, MTBE, and TBA concentrations in the western area during the latest semiannual groundwater monitoring event (fourth quarter 2016) did not warrant restarting the WSB system.

Two gallons of free product accumulated in the product holding tank during the first quarter 2017. Since 1995, a total of 14,426 gallons of product has been removed by TFE, vacuum truck, or manual bailing operations. The estimated mass removal (pounds) of hydrocarbons by the GWTS is shown in Table 2. Mass removal estimates between 1996 and 2005 are based on benzene, toluene, ethylbenzene, and total xylene (BTEX) and MTBE concentrations in the groundwater influent (TPH data were not available) and total volume of extracted groundwater. Mass removal estimates between 2006 and 2011 are based on groundwater influent concentrations of TPH-g and TPH quantified as fuel product, and the total volume of extracted groundwater. Mass removal estimates between 2012 and 2017 are based on groundwater influent TPH-total concentrations (TPH-total includes TPH-g, TPH-d, and TPH-o) and the total volume of extracted groundwater. Since GWE first began in 1996, hydrocarbon mass removed by the GWTS is estimated to be 19,416 pounds. During the first quarter 2017, the mass removal of hydrocarbons was estimated to be 9.6 pounds. Table 3 shows the extracted groundwater analytical results for the samples collected on January 19, February 3, and March 3, 2017. TPH, BTEX, and MTBE concentrations declined significantly in the first quarter 2017, relative to concentrations reported in late 2015 and early 2016. This reduction in dissolved-phase hydrocarbon concentrations can be attributed to biosparge operations in the south-central area.

System Evaluation and Optimization

The GWTS continued to operate during the first quarter 2017 for hydraulic control and product recovery in the south-central and southeastern areas. As stated in the previous sections, the SVE and biosparge systems have been offline since November 2016 to facilitate installation of the new RTO system. The SVE and biosparge systems are anticipated to be online by the end of the second quarter 2017 after installation of the RTO has been completed.

Mechanical rehabilitation (redevelopment) of select TFE wells was completed during the first quarter 2017 to reduce suspended solids (for example, biofoul material and sediment) in the groundwater treatment system influent; this can improve operation of the GWTS by decreasing clogging and changeouts of the influent bag filters to the treatment system. Mechanical rehabilitation was performed at the following wells:

- Southeastern Area: GMW-36, GMW-O-15, GMW-O-18, and GMW-SF-9
- South-Central Area: GMW-9, GMW-10, GWR-3, MW-SF-2, MW-SF-3, MW-SF-11, MW-SF-12, MW-SF-13, MW-SF-15, GMW-O-11, GMW-O-20, and GMW-O-23

Of the 16 wells that were redeveloped, only two contained measurable product: GMW-O-11 in the south-central offsite area, and GMW-O-18 in the offsite southeastern area (Holifield Park). Product thicknesses were 1.05 feet and 0.8 foot, respectively. Gauging results from redevelopment activities performed in the first quarter 2017 are provided in Table 4. Historical (post-2007) gauging data for all TFE and SVE wells are also provided in the table. In the south-central area, the extent of free product in the first quarter 2017 is generally consistent with the latest semiannual groundwater monitoring event (fourth quarter 2016). The substantial decline in measurable product in the south-central area, relative to the fourth quarter 2015 (pre-biosparge conditions), is directly attributable to biosparge system operations that were performed in 2016. Biosparge system operations will be restarted during the second quarter 2017, upon installation of the new RTO as stated above.

Groundwater monitoring results from the fourth quarter 2016 continue to support the shutdown of GWE in the WSB region. 1,2-DCA, MTBE, and TBA concentrations in the western area will continue to be monitored during routine semiannual groundwater monitoring events; the WSB system will be restarted if necessary. The first semiannual 2017 groundwater monitoring event, which includes the WSB region, will be conducted during the second quarter 2017.

Planned Second Quarter 2017 Activities

During the second quarter 2017, SFPP plans to continue to focus remedial efforts on the south-central and southeastern areas. The following maintenance and other activities are planned to be completed during the second quarter 2017:

- Complete installation of the new RTO vapor extraction and treatment system.
- Resume SVE and horizontal biosparge system operations once RTO installation is complete.
- Continue weekly maintenance and monitoring of the south-central and southeastern SVE and TFE/GWE treatment systems, and biosparge system.
- Measure individual well vapor concentrations.
- Collect and analyze system influent vapor and groundwater samples.
- Perform as-needed carbon changeouts of the LGAC vessels.
- Remove, inspect, and repair existing TFE/GWE pumps and associated discharge lines.
- Install pumps and associated equipment necessary for TFE at select wells with measurable free product.
- Continue to remove free product from wells without TFE pumps using manual bailing methods.

TFE in the south-central and southeastern areas will continue during the second quarter 2017.

Operation of the TFE system will be monitored closely, and adjustments will be made to optimize free product and groundwater recovery. The SVE and horizontal biosparge systems will be brought online once the new RTO installation is complete. System inspections will continue on a weekly basis; system evaluation parameters will be collected as needed. The remediation activities and progress for the second quarter 2017 will be described in the second quarter 2017 Remediation Progress Report, to be submitted by July 15, 2017.

Pilot testing of the horizontal biosparge system in the south-central area was completed during the fourth quarter 2016. Preparation of a comprehensive evaluation report, which includes soil vapor and groundwater data collected between January and October 2016, will be prepared and submitted to the RWQCB under separate cover. A recommendation for system expansion will be included in the report.

References

California Regional Water Quality Control Board, Los Angeles Region (RWQCB). 2006. Letter to Mr. Kola Olowu, Defense Energy Support Center, Los Angeles, and Mr. Michael Pitta, Kinder Morgan Energy Partners; Conditional Approval of Revised Remedial Action Plan and Second Addendum to Remedial Action Plan for the Defense Fuel Support Point Norwalk, 15306 Norwalk Boulevard, Norwalk (SLIC No. 0286A, DOD No. 16638). October 25.

CH2M HILL (CH2M). 2013. *Conceptual Site Model and Proposed Alternate Interim Remedy for Soil, Groundwater, and LNAPL*. September 3.

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

Tables

Table 1. Remediation Well Construction and Status

SFPP Norwalk Pump Station, Norwalk, California

Remediation Area	Remediation Well ID	Installation Date	Top of Well Casing Elevation (feet msl)	Well Screen Interval (feet bgs)	Remediation Well Function	Well Operation Status at End of First Quarter 2017	
						SVE/BS	TFE/GWE
South-Central	MW-SF-1	6/18/1990	78.93	25 - 40	SVE	OFF	--
	MW-SF-2	6/18/1990	78.53	25 - 40	SVE; TFE	OFF	OFF
	MW-SF-3	6/18/1990	78.12	25 - 40	SVE; TFE	OFF	ON
	MW-SF-4	6/19/1990	79.38	25 - 40	SVE	OFF	--
	MW-SF-5	9/19/1990	79.74	23 - 38	SVE	OFF	--
	MW-SF-6	9/19/1990	76.80	25 - 40	SVE; TFE	OFF	OFF
	MW-SF-9	6/15/1995	74.10	--	SVE	OFF	--
	MW-SF-10	9/23/2003	76.53	10 - 30	SVE	OFF	--
	MW-SF-11	6/19/2007	78.56	20 - 40	SVE; TFE	OFF	OFF
	MW-SF-12	6/18/2007	78.07	20 - 40	SVE; TFE	OFF	OFF
	MW-SF-13	6/19/2007	73.40	20 - 40	SVE; TFE	OFF	OFF
	MW-SF-14	6/21/2007	78.16	20 - 40	SVE; TFE	OFF	OFF
	MW-SF-15	6/21/2007	78.27	20 - 40	SVE; TFE	OFF	OFF
	MW-SF-16	6/20/2007	78.21	20 - 40	SVE; TFE	OFF	OFF
	MW-SF-17	--	--	--	SVE	OFF	--
	GMW-9	7/8/1991	77.16	20 - 50	SVE; TFE	OFF	ON
	GMW-10	7/8/1991	N/A	25 - 50	SVE; TFE	OFF	ON
	GMW-22	8/2/1991	77.24	25 - 60	SVE; TFE	OFF	OFF
	GMW-24	8/5/1991	77.48	25 - 60	SVE; TFE	OFF	OFF
	GMW-25	1/10/1992	78.14	20 - 50	SVE; TFE	OFF	OFF
	GWR-3	1/10/1992	77.60	20 - 50	SVE; TFE	OFF	OFF
	VEW-1	09/19/90	--	5 - 25	SVE	OFF	--
	VEW-2	09/19/90	--	5 - 25	SVE	OFF	--
	MW-O-1	1/22/1991	75.48	25 - 40	SVE; TFE	OFF	OFF
	MW-O-2	1/23/1991	71.90	25 - 40	SVE; TFE	OFF	OFF
	GMW-O-11	5/20/1992	74.17	20 - 50	SVE; TFE	OFF	OFF
	GMW-O-12	5/21/1992	73.49	20 - 50	SVE	OFF	--
	GMW-O-20	6/15/1995	73.32	--	SVE; TFE	OFF	ON
	GMW-O-21	10/1/1997	71.43	26 - 46	TFE	--	OFF
	GMW-O-23	6/25/2007	73.63	20 - 40	SVE; TFE	OFF	ON
MW-18 (MID)	6/10/1991	75.67	50 - 60	SVE	OFF	--	
HW-1	09/06/92	--	--	SVE	OFF	--	
HW-2	09/06/92	--	--	SVE	OFF	--	
BS-01	08/27/14	75.06	--	BIOSPARGE	OFF	--	
Southeastern	GMW-O-15	4/19/1994	74.23	20 - 50	SVE; TFE	OFF	ON
	GMW-O-18	7/25/1994	74.36	21 - 40	SVE; TFE	OFF	ON
	GMW-36	4/11/1994	76.66	20 - 50	SVE; TFE	OFF	OFF
	GMW-SF-9	4/1/2003	73.05	37 - 46	TFE	--	ON
	GMW-SF-10	4/2/2003	75.77	37 - 46	TFE	--	--
West Side Barrier	BW-2	5/20/1996	73.57	27 - 47	GWE	--	OFF
	BW-3	5/17/1996	74.16	31 - 50	GWE	--	OFF
	BW-4	5/20/1996	74.61	28 - 47	GWE	--	OFF
	BW-5	5/23/1996	73.59	27 - 46	GWE	--	OFF
	BW-6	5/22/1996	73.48	28 - 47	GWE	--	OFF
	BW-7	5/22/1996	74.65	27 - 46	GWE	--	OFF
	BW-8	5/21/1996	75.08	27 - 46	GWE	--	OFF
	BW-9	5/21/1996	76.19	27 - 46	GWE	--	OFF

Notes:

-- = information not available or not applicable

BS = biosparge

feet bgs = feet below ground surface

feet msl = feet above mean sea level based on the National Geodetic Vertical Datum of 1929

GWE = groundwater extraction

SVE = soil vapor extraction

TFE = total fluids extraction

Table 2. Groundwater Remediation System Operation Summary

SFPP Norwalk Pump Station, Norwalk, California

System Inspection Date	Groundwater Removed from the South-Central and Southeastern Areas (gallons)	Groundwater Removed from the West Side Barrier Area (gallons)	Total Groundwater Removed (gallons)	Influent TPH-total (TPH-g, TPH-d, TPH-o) Concentration (µg/L)	Estimated Hydrocarbon Mass Removed from the South-Central, Southeastern, and West Side Barrier Areas (pounds) ^a	Product Recovery (gallons)
1996 Totals	1,802,103	0	1,802,103	--	273	4,995
1997 Totals	7,031,533	0	7,031,533	--		2,204
1998 Totals	4,064,700	0	4,064,700	--		856
1999 Totals	3,891,600	2,338,129	6,229,729	--	385	450
2000 Totals	2,290,580	2,454,971	4,745,551	--	295	230
2001 Totals	1,401,473	1,131,700	2,533,173	--	229	0
2002 Totals	1,452,229	2,931,167	4,383,396	--	110	0
2003 Totals	1,607,095	2,281,956	3,889,051	--	65	10
2004 Totals	1,695,361	3,854,470	5,549,831	--	229	0
2005 Totals	1,537,925	4,244,674	5,782,599	--	273	0
2006 Totals	1,699,567	5,089,615	6,789,182	--	684	83
2007 Totals	3,368,481	2,167,724	5,536,205	--		89
2008 Totals ^b	4,283,026	405,954	4,688,980	--	520	0
2009 Totals	2,309,627	0	2,309,627	--	105	0
2010 Totals ^c	3,342,227	2,292	3,344,519	--	363	0
2011 Totals	5,530,317	0	5,530,317	--	585	0
2012 Totals	7,368,318	0	7,368,318	--	699	0
2013 Totals	6,439,733	0	6,439,733	--	568	2
2014 Totals	3,410,427	0	3,410,427	--	2,236	2,335
2015 Totals	4,817,906	0	4,817,906	--	5,959	2,928
2016 Totals	2,428,279	0	2,428,279	--	4,506	242
1/1/2017	14,798	0	14,798	660	0.08	
1/2/2017	14,541	0	14,541	660	0.08	
1/3/2017	14,466	0	14,466	660	0.08	
1/4/2017	14,393	0	14,393	660	0.08	
1/5/2017	15,123	0	15,123	660	0.08	
1/6/2017	14,196	0	14,196	660	0.08	
1/7/2017	13,977	0	13,977	660	0.08	
1/8/2017	13,886	0	13,886	660	0.08	
1/9/2017	14,708	0	14,708	660	0.08	
1/10/2017	14,410	0	14,410	660	0.08	
1/11/2017	14,410	0	14,410	660	0.08	
1/12/2017	16,594	0	16,594	660	0.09	
1/13/2017	13,973	0	13,973	660	0.08	
1/14/2017	13,992	0	13,992	660	0.08	
1/15/2017	13,915	0	13,915	660	0.08	

Table 2. Groundwater Remediation System Operation Summary

SFPP Norwalk Pump Station, Norwalk, California

System Inspection Date	Groundwater Removed from the South-Central and Southeastern Areas (gallons)	Groundwater Removed from the West Side Barrier Area (gallons)	Total Groundwater Removed (gallons)	Influent TPH-total (TPH-g, TPH-d, TPH-o) Concentration (µg/L)	Estimated Hydrocarbon Mass Removed from the South-Central, Southeastern, and West Side Barrier Areas (pounds) ^a	Product Recovery (gallons)
1/16/2017	13,661	0	13,661	660	0.08	
1/17/2017	13,735	0	13,735	660	0.08	
1/18/2017	13,365	0	13,365	660	0.07	
1/19/2017	14,294	0	14,294	640	0.08	
1/20/2017	15,539	0	15,539	640	0.08	
1/21/2017	13,429	0	13,429	640	0.07	
1/22/2017	13,377	0	13,377	640	0.07	
1/23/2017	6,971	0	6,971	640	0.04	
1/24/2017	6,792	0	6,792	640	0.04	
1/25/2017	13,424	0	13,424	640	0.07	
1/26/2017	10,581	0	10,581	640	0.06	
1/27/2017	4,118	0	4,118	640	0.02	
1/28/2017	14,032	0	14,032	640	0.07	
1/29/2017	10,610	0	10,610	640	0.06	
1/30/2017	6,517	0	6,517	640	0.03	
1/31/2017	14,494	0	14,494	640	0.08	
2/1/2017	14,266	0	14,266	640	0.08	
2/2/2017	14,041	0	14,041	640	0.07	
2/3/2017	14,173	0	14,173	1,000	0.12	
2/4/2017	14,017	0	14,017	1,000	0.12	
2/5/2017	13,865	0	13,865	1,000	0.12	
2/6/2017	14,942	0	14,942	1,000	0.12	
2/7/2017	14,164	0	14,164	1,000	0.12	
2/8/2017	13,893	0	13,893	1,000	0.12	
2/9/2017	11,422	0	11,422	1,000	0.10	
2/10/2017	14,423	0	14,423	1,000	0.12	
2/11/2017	15,000	0	15,000	1,000	0.12	
2/12/2017	14,848	0	14,848	1,000	0.12	
2/13/2017	14,888	0	14,888	1,000	0.12	
2/14/2017	14,902	0	14,902	1,000	0.12	
2/15/2017	14,623	0	14,623	1,000	0.12	
2/16/2017	14,898	0	14,898	1,000	0.12	
2/17/2017	17,779	0	17,779	1,000	0.15	
2/18/2017	16,607	0	16,607	1,000	0.14	
2/19/2017	14,869	0	14,869	1,000	0.12	
2/20/2017	14,648	0	14,648	1,000	0.12	

Table 2. Groundwater Remediation System Operation Summary

SFPP Norwalk Pump Station, Norwalk, California

System Inspection Date	Groundwater Removed from the South-Central and Southeastern Areas (gallons)	Groundwater Removed from the West Side Barrier Area (gallons)	Total Groundwater Removed (gallons)	Influent TPH-total (TPH-g, TPH-d, TPH-o) Concentration (µg/L)	Estimated Hydrocarbon Mass Removed from the South-Central, Southeastern, and West Side Barrier Areas (pounds) ^a	Product Recovery (gallons)
2/21/2017	14,774	0	14,774	1,000	0.12	
2/22/2017	14,132	0	14,132	1,000	0.12	
2/23/2017	14,072	0	14,072	1,000	0.12	
2/24/2017	13,197	0	13,197	1,000	0.11	
2/25/2017	12,909	0	12,909	1,000	0.11	
2/26/2017	12,945	0	12,945	1,000	0.11	
2/27/2017	13,136	0	13,136	1,000	0.11	
2/28/2017	13,136	0	13,136	1,000	0.11	
3/1/2017	17,653	0	17,653	1,000	0.15	
3/2/2017	17,551	0	17,551	1,000	0.15	
3/3/2017	13,136	0	13,136	1,200	0.13	
3/4/2017	16,368	0	16,368	1,200	0.16	
3/5/2017	8,221	0	8,221	1,200	0.08	
3/6/2017	13,069	0	13,069	1,200	0.13	
3/7/2017	12,582	0	12,582	1,200	0.13	
3/8/2017	7,080	0	7,080	1,200	0.07	
3/9/2017	10,592	0	10,592	1,200	0.11	
3/10/2017	14,300	0	14,300	1,200	0.14	
3/11/2017	11,294	0	11,294	1,200	0.11	
3/12/2017	14,897	0	14,897	1,200	0.15	
3/13/2017	14,725	0	14,725	1,200	0.15	
3/14/2017	10,819	0	10,819	1,200	0.11	
3/15/2017	11,954	0	11,954	1,200	0.12	
3/16/2017	13,296	0	13,296	1,200	0.13	2
3/17/2017	14,413	0	14,413	1,200	0.14	
3/18/2017	15,131	0	15,131	1,200	0.15	
3/19/2017	15,166	0	15,166	1,200	0.15	
3/20/2017	14,773	0	14,773	1,200	0.15	
3/21/2017	14,312	0	14,312	1,200	0.14	
3/22/2017	14,881	0	14,881	1,200	0.15	
3/23/2017	13,271	0	13,271	1,200	0.13	
3/24/2017	14,252	0	14,252	1,200	0.14	
3/25/2017	14,298	0	14,298	1,200	0.14	
3/26/2017	14,148	0	14,148	1,200	0.14	
3/27/2017	14,202	0	14,202	1,200	0.14	
3/28/2017	13,638	0	13,638	1,200	0.14	

Table 2. Groundwater Remediation System Operation Summary

SFPP Norwalk Pump Station, Norwalk, California

System Inspection Date	Groundwater Removed from the South-Central and Southeastern Areas (gallons)	Groundwater Removed from the West Side Barrier Area (gallons)	Total Groundwater Removed (gallons)	Influent TPH-total (TPH-g, TPH-d, TPH-o) Concentration (µg/L)	Estimated Hydrocarbon Mass Removed from the South-Central, Southeastern, and West Side Barrier Areas (pounds) ^a	Product Recovery (gallons)
3/29/2017	13,944	0	13,944	1,200	0.14	
3/30/2017	13,696	0	13,696	1,200	0.14	
3/31/2017	14,070	0	14,070	1,200	0.14	
First Quarter 2017 Totals	1,224,622	0	1,224,622	--	9.6	2
Cumulative Total	72,997,129	26,902,652	99,899,781	--	19,416	14,426

Notes:

^a Estimated hydrocarbon mass removed (pounds) between 1996 and 2005 is based on concentrations of dissolved BTEX and MTBE in the groundwater influent and volume of groundwater extracted. Estimated hydrocarbon mass removed (pounds) between 2006 and 2011 is based on concentrations of TPH-g and TPH-fp in the groundwater influent and volume of groundwater extracted. Estimated hydrocarbon mass removed (pounds) between 2012 and 2015 is based on concentrations of dissolved TPH-total in the groundwater influent and volume of extracted groundwater

^b Groundwater removal in the West Side Barrier area was discontinued in August 2008

^c Groundwater extraction from West Side Barrier area wells BW-3 and BW-6 was resumed on May 14, 2010, to evaluate the efficacy of blending water with lower selenium concentrations from these wells with groundwater extracted from the south-central and southeastern areas. Groundwater removal from the West Side Barrier area was discontinued again on June 22, 2010.

-- = not applicable

µg/L = micrograms per liter

BTEX = benzene, toluene, ethylbenzene, and xylenes

MTBE = methyl tertiary butyl ether

TPH-d = total petroleum hydrocarbons quantified as diesel (C13-C22)

TPH-fp = total petroleum hydrocarbons quantified as fuel product (C7-C28)

TPH-g = total petroleum hydrocarbons quantified as gasoline (C4-C12)

TPH-o = total petroleum hydrocarbons quantified as oil (C23-C36)

TPH-total = total petroleum hydrocarbons quantified as gasoline, diesel, and oil (C4-C36)

Table 3. Extracted Groundwater Analytical Results^a

SFPP Norwalk Pump Station, Norwalk, California

Date Sampled	EPA 8015M					EPA 8260B Volatile Organic Compounds (VOCs) ^b									
	TPH-g (µg/L)	TPH-d (µg/L)	TPH-o (µg/L)	TPH-total (µg/L)	TPH-fp (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	
3/6/1996	--	--	--	--	--	2,600	790	7,200	9,100	---	--	--	--	--	
7/23/1998	--	--	--	--	--	750	<10	360	300	---	--	--	--	--	
8/27/1998	--	--	--	--	--	1,000	71	530	800	---	--	--	--	--	
10/1/1998	--	--	--	--	--	1,200	<10	1,400	1,680	---	--	--	--	--	
11/19/1998	--	--	--	--	--	1,600	140	2,600	2,900	---	--	--	--	--	
12/17/1998	--	--	--	--	--	4,500	380	4,500	3,900	---	--	--	--	--	
1/28/1999	--	--	--	--	--	520	79	660	840	---	--	--	--	--	
3/25/1999	--	--	--	--	--	540	160	1,800	4,100	---	--	--	--	--	
4/2/1999	--	--	--	--	--	620	76	520	1,200	---	--	--	--	--	
4/15/1999	--	--	--	--	--	1,400	99	800	1,480	---	--	--	--	--	
5/6/1999	--	--	--	--	--	1,340	180	1,240	1,730	---	--	--	--	--	
6/3/1999	--	--	--	--	--	3,410	343	2,240	2,770	---	--	--	--	--	
8/5/1999	--	--	--	--	--	3,200	780	5,400	5,200	---	--	--	--	--	
9/23/1999	--	--	--	--	--	2,700	130	1,200	720	---	--	--	--	--	
9/30/1999	--	--	--	--	--	1,300	77	480	560	---	--	--	--	--	
10/13/1999	--	--	--	--	--	1,400	100	660	720	---	--	--	--	--	
11/4/1999	--	--	--	--	--	3,000	500	5,600	4,500	---	--	--	--	--	
12/9/1999	--	--	--	--	--	4,500	280	1,400	1,480	---	--	--	--	--	
1/13/2000	--	--	--	--	--	9,000	7,600	14,000	44,000	---	--	--	--	--	
2/11/2000	--	--	--	--	--	2,300	<100	1,200	1,240	3,100	--	--	--	--	
3/10/2000	--	--	--	--	--	380	20	110	430	740	--	--	--	--	
4/13/2000	--	--	--	--	--	1,300	550	450	920	970	--	--	--	--	
6/2/2000	--	--	--	--	--	840	56	240	980	920	--	--	--	--	
6/15/2000	--	--	--	--	--	1,600	82	900	990	2,700	--	--	--	--	
8/3/2000	--	--	--	--	--	1,900	410	3,500	4,400	2,700	--	--	--	--	
8/28/2000	--	--	--	--	--	620	33	200	380	1,800	--	--	--	--	
9/20/2000	--	--	--	--	--	460	<20	73	255	1,300	--	--	--	--	
10/25/2000	--	--	--	--	--	20	<20	<20	216	6,700	--	--	--	--	
11/15/2000	--	--	--	--	--	560	24	210	490	3,700	--	--	--	--	
3/22/2001	--	--	--	--	--	3,800	360	3,900	3,160	5,500	--	--	--	--	
4/30/2001	--	--	--	--	--	4,100	710	5,800	5,600	8,300	--	--	--	--	
5/23/2001	--	--	--	--	--	3,400	160	1,100	1,070	3,900	--	--	--	--	
6/22/2001	--	--	--	--	--	1,700	85	680	680	2,200	--	--	--	--	
7/16/2001	--	--	--	--	--	2,300	130	1,100	1,350	2,100	--	--	--	--	
9/5/2001	--	--	--	--	--	1,500	170	1,200	1,890	1,100	--	--	--	--	

Table 3. Extracted Groundwater Analytical Results^a

SFPP Norwalk Pump Station, Norwalk, California

Date Sampled	EPA 8015M					EPA 8260B Volatile Organic Compounds (VOCs) ^b									
	TPH-g (µg/L)	TPH-d (µg/L)	TPH-o (µg/L)	TPH-total (µg/L)	TPH-fp (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	
1/23/2002	--	--	--	--	--	<0.5	<1	<1	<2	2	--	--	--	--	
2/28/2002	--	--	--	--	--	<0.5	<1	<1	<2	96	--	--	--	--	
3/25/2002	--	--	--	--	--	<0.5	<1	<1	<2	87	--	--	--	--	
5/1/2002	--	--	--	--	--	1,900	31	190	480	1,100	--	--	--	--	
5/17/2002	--	--	--	--	--	1,400	50	180	970	1,000	--	--	--	--	
6/4/2002	--	--	--	--	--	2,700	57	280	530	1,300	--	--	--	--	
7/18/2002	--	--	--	--	--	3,800	66	530	1,160	330	--	--	--	--	
8/8/2002	--	--	--	--	--	4,800	49	610	1,290	460	--	--	--	--	
9/3/2002	--	--	--	--	--	260	<5	5	71	600	--	--	--	--	
10/18/2002	--	--	--	--	--	1,200	70	490	820	570	--	--	--	--	
11/26/2002	--	--	--	--	--	1,300	68	130	590	860	--	--	--	--	
12/27/2002	--	--	--	--	--	1	<1	<1	<2	58	--	--	--	--	
1/30/2003	--	--	--	--	--	<0.5	<1	<1	<2	37	--	--	--	--	
2/26/2003	--	--	--	--	--	4	<1	<1	4	140	--	--	--	--	
3/17/2003	--	--	--	--	--	2,800	23	170	480	570	--	--	--	--	
4/30/2003	--	--	--	--	--	3,700	350	2,200	4,600	490	--	--	--	--	
6/13/2003	--	--	--	--	--	1,200	17	120	510	740	--	--	--	--	
6/19/2003	--	--	--	--	--	680	<10	35	239	680	--	--	--	--	
7/3/2003	--	--	--	--	--	2,600	160	610	2,290	450	--	--	--	--	
7/25/2003	--	--	--	--	--	300	6	3	39	230	--	--	--	--	
8/20/2003	--	--	--	--	--	830	19	130	350	290	--	--	--	--	
9/11/2003	--	--	--	--	--	270	<10	<10	46	420	--	--	--	--	
10/16/2003	--	--	--	--	--	380	<10	<10	121	490	--	--	--	--	
11/17/2003	--	--	--	--	--	93	6	22	106	200	--	--	--	--	
12/19/2003	--	--	--	--	--	300	27	110	1,010	62	--	--	--	--	
1/30/2004	--	--	--	--	--	700	140	740	1,740	22	--	--	--	--	
2/17/2004	--	--	--	--	--	300	47	440	1,150	19	--	--	--	--	
3/8/2004	--	--	--	--	--	52	<5.0	10	149	23	--	--	--	--	
3/21/2004	--	--	--	--	--	420	11	29	318	120	--	--	--	--	
6/28/2004	--	--	--	--	--	740	26	46	337	81	--	--	--	--	
7/30/2004	--	--	--	--	--	660	18	68	280	87	--	--	--	--	
8/27/2004	--	--	--	--	--	1,500	47	140	530	77	--	--	--	--	
9/28/2004	--	--	--	--	--	400	10	32	252	64	--	--	--	--	
10/15/2004	--	--	--	--	--	950	31	130	316	64	--	--	--	--	
11/12/2004	--	--	--	--	--	2,100	1,500	390	15,800	3,000	--	--	--	--	
12/10/2004	--	--	--	--	--	700	320	1,100	3,900	110	--	--	--	--	

Table 3. Extracted Groundwater Analytical Results^a

SFPP Norwalk Pump Station, Norwalk, California

Date Sampled	EPA 8015M					EPA 8260B Volatile Organic Compounds (VOCs) ^b									
	TPH-g (µg/L)	TPH-d (µg/L)	TPH-o (µg/L)	TPH-total (µg/L)	TPH-fp (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	
1/28/2005	--	--	--	--	--	460	140	520	2,260	610	--	--	--	--	
2/25/2005	--	--	--	--	--	5,700	200	650	1,560	1,300	--	--	--	--	
3/22/2005	--	--	--	--	--	<5	<10	<10	26	1,000	--	--	--	--	
4/21/2005	--	--	--	--	--	680	8	21	108	420	--	--	--	--	
5/20/2005	--	--	--	--	--	6	<5	9	50	<5	--	--	--	--	
6/28/2005	--	--	--	--	--	450	80	690	1,030	1,600	--	--	--	--	
7/27/2005	--	--	--	--	--	2,000	170	1,700	5,000	1,200	--	--	--	--	
8/31/2005	--	--	--	--	--	660	34	320	670	220	--	--	--	--	
9/28/2005	--	--	--	--	--	1,800	310	2,800	4,700	360	--	--	--	--	
10/26/2005	--	--	--	--	--	940	330	1,800	3,600	530	--	--	--	--	
11/30/2005	--	--	--	--	--	900	170	900	2,790	760	--	--	--	--	
12/20/2005	--	--	--	--	--	2,500	350	2,600	4,100	2,300	--	--	--	--	
7/11/2007	--	--	--	--	--	4,800	130	890	1,040	690	--	--	--	--	
8/7/2007	14,000	--	--	--	11,000	5,400	140	1,100	770	540	--	--	--	--	
9/25/2007	12,000	--	--	--	30,000	3,400	310	1,600	2,390	540	--	--	--	--	
10/16/2007	8,900	--	--	--	8,400	3,400	94	520	660	390	--	--	--	--	
11/2/2007	44,000	--	--	--	6,500	3,200	130	860	1,160	570	--	--	--	--	
11/30/2007	6,000	--	--	--	5,200	1,800	48	170	490	450	--	--	--	--	
12/21/2007	7,200	--	--	--	4,200	2,100	41	170	430	750	--	--	--	--	
1/4/2008	4,300	--	--	--	7,200	3,300	49	300	540	620	--	--	--	--	
1/18/2008	11,000	--	--	--	2,200	3,600	140	650	850	620	--	--	--	--	
2/1/2008	8,700	--	--	--	5,700	3,600	100	440	930	560	--	--	--	--	
3/4/2008	7,200	--	--	--	4,900	3,900	120	510	770	620	--	--	--	--	
4/8/2008	8,100	--	--	--	10,000	2,800	96	280	580	640	--	--	--	--	
5/6/2008	5,300	--	--	--	2,800	2,900	76	190	328	430	--	--	--	--	
6/3/2008	8,400	--	--	--	6,800	3,700	110	450	480	320	--	--	--	--	
7/2/2008	9,200	--	--	--	4,300 ^c	4,500	75	620	650	400	--	--	--	--	
8/19/2008	4,000	--	--	--	6,600	2,600	57	76	215	450	--	--	--	--	
9/5/2008	160	--	--	--	<500	<12	<25	<25	<25	<25	--	--	--	--	
10/7/2008	<100	--	--	--	<500	0.36 J	<1.0	<1.0	1.59	1.7	--	--	--	--	
11/4/2008	12,000	--	--	--	660,000	2,500	140	220	760	160	--	--	--	--	
12/4/2008	1,300	--	--	--	1,500	600	8.2	28	73	130	--	--	--	--	

Table 3. Extracted Groundwater Analytical Results^a

SFPP Norwalk Pump Station, Norwalk, California

Date Sampled	EPA 8015M					EPA 8260B Volatile Organic Compounds (VOCs) ^b									
	TPH-g (µg/L)	TPH-d (µg/L)	TPH-o (µg/L)	TPH-total (µg/L)	TPH-fp (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	
1/6/2009	1,500	--	--	--	980	560	23	41	110	320	--	--	--	--	
3/6/2009	2,500	--	--	--	1,500	1,100	33	51	114	65	--	--	--	--	
4/7/2009	3,100	--	--	--	6,900	1,100	36	230	207	210	--	--	--	--	
5/13/2009	690	--	--	--	1,500	120	3.2	14	60	24	--	--	--	--	
6/12/2009	150	--	--	--	<500	<0.50	<1.0	<1.0	0.71 J	44	--	--	--	--	
7/10/2009	4,500	--	--	--	560	1,500	41	68	175	150	--	--	--	--	
8/4/2009	2,000	--	--	--	1,000	1,200	16	18	64	100	--	--	--	--	
9/1/2009	4,800	--	--	--	3,500	380	45	25	328	5.4 J	--	--	--	--	
10/6/2009	3,900	--	--	--	4,600	3,200	21	15	35	82	--	--	--	--	
10/27/2009	1,000	--	--	--	<500	520	4	15	10	180	--	--	--	--	
11/3/2009	120	--	--	--	<500	2	0.55 J	0.61 J	3	40	--	--	--	--	
11/25/2009	5,700	--	--	--	4,000	3,100	26	13	48	88	--	--	--	--	
2/16/2010	8,000	--	--	--	5,900	4,700	110	1,300	800	1,800	--	--	--	--	
3/9/2010	7,000	--	--	--	5,900	6,600	110	460	550	410	--	--	--	--	
4/20/2010	10,000	--	--	--	11,000	6,000	44	230	174	130	--	--	--	--	
5/14/2010	8,500	--	--	--	2,100	3,600	67	380	400	210	--	--	--	--	
6/25/2010	4,600	--	--	--	2,600	2,200	61	540	380	170	--	--	--	--	
7/20/2010	21,000	--	--	--	21,000	3,400	370	3,000	2,550	2,300	--	--	--	--	
8/3/2010	3,400	--	--	--	1,500	1,400	17	140	161	390	--	--	--	--	
8/10/2010	5,800	--	--	--	3,400	2,600	40	190	169	140	--	--	--	--	
9/14/2010	9,400	--	--	--	10,000	4,900	170	1,100	1,340	380	--	--	--	--	
10/12/2010	5,700	--	--	--	1,000	2,200	43	140	138	120	--	--	--	--	
11/16/2010	1,100	--	--	--	1,600	290	4	15	78	84	--	--	--	--	
12/14/2010	7,100	--	--	--	3,200	2,600	76	200	315	340	--	--	--	--	
1/14/2011	7,400	--	--	--	3,500	3,700	56	110	220	280	--	--	--	--	
2/8/2011	5,600	--	--	--	3,500	2,400	43	110	190	420	--	--	--	--	
3/25/2011	3,100	--	--	--	1,200	1,300	51	92	200	300	--	--	--	--	
4/26/2011	1,400	--	--	--	1,200	610	5.8	5.7	20	130	--	--	--	--	
5/17/2011	3,300	--	--	--	1,700	3,600	82	180	300	240	--	--	--	--	
6/21/2011	1,200	--	--	--	720	860	9.6	31	82	190	2,200	6.6	<0.07	<0.1	
7/27/2011	14,000	10,000	44J	--	-- ^d	2,800	150	490	2,100	350	2,800	27	<0.07	<0.1	
8/26/2011	7,400	--	--	--	57,000	1,400	120	480	1,300	270	1,600	16	<0.07	<0.1	
9/23/2011	6,400	--	--	--	2,800	2,800	83.0	160	340	300	1,300	22	<0.07	<0.1	
10/25/2011	6,000	--	--	--	2,300	3,000	52	93	200	200	970	20	<0.70	<1.0	
11/22/2011	5,900	--	--	--	2,000	3,600	62	140	240	300	2,900	26	<0.07	<0.1	
12/20/2011	780	--	--	--	2,000	330	8	14	43	160	1,000	18	<0.07	<0.1	

Table 3. Extracted Groundwater Analytical Results^a

SFPP Norwalk Pump Station, Norwalk, California

Date Sampled	EPA 8015M					EPA 8260B Volatile Organic Compounds (VOCs) ^b									
	TPH-g (µg/L)	TPH-d (µg/L)	TPH-o (µg/L)	TPH-total (µg/L)	TPH-fp (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	
1/10/2012	5,300	--	--	--	1,900	3,400	36	70	170	200	960	26	<0.07	<0.1	
2/21/2012	4,900	--	--	--	<13	3,400	19	16	48	120	2,200	21	<0.07	<0.1	
3/13/2012	6,100	--	--	--	2,100	2,900	43	79	180	120	1,600	23	<0.07	<0.1	
4/27/2012	5,100	--	--	--	2,200	3,800	49	61	150	150	500	38	<0.13	<0.12	
5/22/2012	6,800	--	--	--	31,000	2,800	49	140	262	150	690	30	<0.13	<0.12	
6/19/2012	5,300	--	--	--	36,000	3,200	45	230	200	220	2,800	33	<0.13	<0.12	
7/20/2012	5,600	2,400	210	8,200	--	3,000	71	72	510	170	2,700	26	<0.13	<0.12	
8/21/2012	3,600	1,100	140	4,900	--	2,400	26	41	80	110	1,500	22	<0.13	<0.12	
9/25/2012	2,100	710	71	2,800	--	1,700	25	35	86	150	690	17	<1.0	<1.0	
10/30/2012	2,600	700	74	3,374	--	1,400	15	13	52	54	1,200	14	<0.061	<0.054	
11/30/2012	860	8,200	260	9,320	--	1,100	2.4	4.4	12	23	690	<0.038	<0.061	<0.054	
12/27/2012	6,200	820	86	7,106	--	2,000	39	76	130	120	1,300	20	<0.061	<0.054	
1/15/2013	3,400	14,000	400	17,800	--	800	12	25	130	43	1,200	8.7	<0.061	<0.054	
2/12/2013	9,900	3,100	150	13,150	--	2,100	110	440	820	110	330	22	<0.061	<0.054	
3/5/2013	3,954	970	80	5,004	--	1,400	21	23	87	63	1,200	15	<0.061	<0.054	
3/15/2013	--	--	--	--	--	1,400	25	49	98	74	570	14	<0.061	<0.054	
4/16/2013	1,100	1,300	270	2,670	--	370	6	19	56	73	530	17	<0.061	<0.054	
5/14/2013	4,300	830	99	5,229	--	2,000	52	98	181	61	270	22	<0.061	<0.054	
6/28/2013	2,900	870	150	3,920	--	1,100	18	58	76	92	500	11	<0.061	<0.054	
7/16/2013	3,600	1,000	130	4,730	--	870	19	47	140	100	600	14	<0.061	<0.054	
8/16/2013	3,800	5,900	530	10,230	--	1,400	13	32	85	77	550	27	<0.061	<0.054	
9/24/2013	5,800	12,000	550	18,350	--	990	53	400	630	78	440	20	<0.061	<0.054	
10/15/2013	3,300	650	120	4,070	--	1,400	11	37	150	43	250	15	<0.061	<0.054	
11/12/2013	5,600	3,500	190	9,290	--	570	99	230	660	89	550	20	<0.061	<0.054	
12/13/2013	12,500	14,000	400	26,900	--	560	170	690	1,500	52	220	17	<0.061	<0.054	
1/17/2014	5,900	980	130	7,010	--	4,200	13	18	61	89	810	40	<0.061	<0.054	
2/11/2014	12,000	63,000	2,500	77,500	--	640	130	560	1,990	45	290	12	<0.061	<0.054	
3/21/2014	42,000	77,000	2,000	121,000	--	3,700	440	3,300	3,900	100	360	17	<0.061	<0.054	
4/21/2014	100,000	30,000	880	130,000	--	6,000	1,300	9,800	9,000	<0.098	<1.0	12	<0.061	<0.054	
5/20/2014	33,000	15,000	470	48,000	--	1,400	570	2,700	5,400	30	<0.40	16	<0.061	<0.054	
6/13/2014	77,000	33,000	1,100	110,000	--	7,700	1,900	10,000	13,000	38	<0.40	12	<0.061	<0.054	
7/12/2014	28,000	82	<52	28,082	--	2,800	820	3,700	6,800	34	<0.40	18J	<25	<25	
The GWTS was down between July 29, 2014 and December 1, 2014 to facilitate processing of the modifications to SCAQMD Permit No. F14166 for the GWTS.															
1/15/2015	8,000	5,600	270	13,870	--	2,200	22	140	430	21	390	11	<0.12	<0.11	
2/20/2015	120,000	47,000	1,500	170,000	--	3,000	350	1,600	3,000	43	<0.80	17	<0.12	<0.11	
3/3/2015	65,000	480,000	15,000	560,000	--	6,600	1,700	9,300	12,000	670	<0.80	11	<0.12	<0.11	
4/7/2015	105,000	92,000	2,900	200,000	--	9,000	2,100	18,000	13,000	1,200	<0.80	8.7	<0.12	17	
5/19/2015	73,000	90,000	2,400	165,400	--	8,200	1,600	17,000	12,000	380	<0.60	25	<0.078	<0.078	
6/2/2015	78,000	89,000	3,100	170,100	--	3,200	530	3,700	7,100	1,100	<0.60	13	<0.078	8.3	
7/30/2015	31,000	16,000	570	47,570	--	3,100	720	5,100	6,200	820	<0.60	27	<0.078	6.2	
8/6/2015	30,000	17,000	570	37,570	--	2,600	500	3,100	6,200	700	<0.60	16	<0.078	6.4	
9/15/2015	50,000	79,000	2,700	129,000	--	3,200	1,800	6,500	14,000	820	<0.60	15	<0.078	7.7	

Table 3. Extracted Groundwater Analytical Results^a

SFPP Norwalk Pump Station, Norwalk, California

Date Sampled	EPA 8015M					EPA 8260B Volatile Organic Compounds (VOCs) ^b									
	TPH-g (µg/L)	TPH-d (µg/L)	TPH-o (µg/L)	TPH-total (µg/L)	TPH-fp (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	
10/8/2016	51,000	55,000	1,800	107,800	--	5,700	1,400	11,000	11,000	680	<0.60	16	<0.078	6.2	
11/24/2015	45,000	74,000	2,800	121,800	--	3,400	1,100	7,000	7,800	<0.31	<1.5	16	<0.20	<0.20	
12/3/2015	40,000	120,000	4,000	164,000	--	4,800	1,100	7,700	8,300	580	<1.5	19	<0.20	5.9	
1/21/2016	88,000	2,500,000	97,000	2,685,000	--	4,200	1,700	10,000	14,000	380	<0.60	12	<0.078	<0.078	
2/2/2016	31,000	110,000	4,700	145,700	--	2,600	750	4,600	9,500	430	<0.60	8.6	<0.078	<0.078	
4/5/2016	32,000	31,000	1,100	64,100	--	1,500	450	2,200	12,000	390	<3.0	<0.17	<0.39	<0.39	
5/3/2016	2,600	20,000	680	23,280	--	990	18	83	260	6.0	100	7.1	<0.039	<0.039	
6/14/2016	1,900	4,400	280	6,580	--	290	21	110	400	8.6	<5.0	6.00	<1.0	<1.0	
The GWTS was down between June 24 and September 9, 2016, to facilitate installation of the new DAF/OWS.															
9/20/2016	32	230	130	390	--	<0.036	0.18 J	0.080 J	2.6	2.2	150	10	<0.039	<0.039	
10/21/2016	10,000	9,300	360	20,000	--	320	320	1,100	2,700	5.1	<0.30	5.3	<0.039	<0.039	
11/8/2016	1,100	1,500	130	2,800	--	2.5	<0.036	2.6	160	2.4	66	9.1	<0.039	<0.039	
12/27/2016	140	390	130	660	--	1.2	<0.042	<0.042	2.0 J	1.4	2200	8.7	<0.039	<0.039	
1/19/2017	190	340	120	640	--	6.9	0.24 J	0.15 J	<1.5	2.4	2300	8.1	<0.15	<0.12	
2/3/2017	390	490	170	1,000	--	4.2	0.89 J	3.5	30	3.5	1700	5.1	<0.15	<0.12	
3/3/2017	790	320	78	1,200	--	180	5.2	1.7 J	24	4.2	620	3.0	<0.15	<0.12	

Notes:

^a Influent samples were collected from the manifold conveying groundwater extracted from the south-central and southeastern areas

^b Other detected VOCs are included in the laboratory analytical reports in Appendix A

^c TPH-fp result from extracted groundwater sample collected on July 10, 2008.

^d The July 27, 2011, sample, and samples collected after July 20, 2012, were analyzed for TPH-g, TPH-d, and TPH-o.

-- = not analyzed

<500 = Not detected at or above the laboratory reporting limit (RL) shown

µg/L = micrograms per liter

DAF = dissolved air flotation

DIPE = di-isopropyl ether

ETBE = ethyl tertiary butyl ether

GWTS = groundwater treatment system

J = Analyte was detected above the laboratory method detection limit and below the laboratory RI

MTBE = methyl tertiary butyl ether

OWS = oil-water separator

SCAQMD = South Coast Air Quality Management District

TAME = tertiary amyl methyl ether

TBA = tertiary butyl alcohol

TPH-d = total petroleum hydrocarbons quantified as diesel (C13-C22)

TPH-fp = total petroleum hydrocarbons quantified as fuel product (C7-C28)

TPH-g = total petroleum hydrocarbons quantified as gasoline (C4-C12)

TPH-o = total petroleum hydrocarbons quantified as oil (C23-C36)

TPH-total = total petroleum hydrocarbons quantified as gasoline, diesel, and oil (C4-C36)

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
GMW-9	4/30/2007	74.44	26.71	---	---	47.73	Secor
	11/12/2007	74.44	27.32	27.04	0.28	47.34	Secor
	8/8/2008	74.44	28.01	27.96	0.05	46.47	Envent
	10/16/2008	74.44	28.36	28.35	0.01	46.09	Envent
	12/17/2008	74.44	27.61	---	---	46.83	Envent
	1/15/2009	74.44	28.91	---	---	45.53	Envent
	3/27/2009	74.44	29.04	---	---	45.40	Envent
	4/21/2009	74.44	28.16	---	---	46.28	Envent
	7/21/2009	74.44	28.31	---	---	46.13	Envent
	10/19/2009	74.44	NM	---	---	NC	Blaine Tech
	5/24/2010	74.44	30.47	---	---	43.97	Blaine Tech
	5/28/2010	74.44	30.35	---	---	44.09	Blaine Tech
	10/4/2010	74.44	30.30	---	---	44.14	Blaine Tech
	1/10/2011	74.44	32.02	---	---	42.42	Blaine Tech
	4/11/2011	74.44	25.41	---	---	49.03	Blaine Tech
	7/11/2011	74.44	NM	---	---	NC	
	10/10/2011	74.44	28.91	---	---	45.53	Blaine Tech
	4/16/2012	74.44	31.15	---	---	43.29	Blaine Tech
	7/9/2012	---	31.64	---	---	NC	Blaine Tech
	10/15/2012	77.16	31.82	---	---	45.34	Blaine Tech
	1/14/2013	77.16	31.88	---	---	45.28	Blaine Tech
	4/8/2013	77.16	31.83	---	---	45.33	Blaine Tech
	10/7/2013	77.16	35.30	31.25	4.05	45.02	Blaine Tech
	4/14/2014	77.16	37.66	31.65	6.01	44.19	Blaine Tech
	5/5/2014	77.16	37.81	31.76	6.05	44.07	Nieto & Sons
	5/12/2014	77.16	37.39	31.83	5.56	44.11	Nieto & Sons
	5/20/2014	77.16	37.70	33.85	3.85	42.46	Nieto & Sons
	5/27/2014	77.16	32.41	28.84	3.57	47.53	Nieto & Sons
	6/4/2014	77.16	33.20	---	---	43.96	Nieto & Sons
	6/10/2014	77.16	37.51	32.77	4.74	43.35	Nieto & Sons
	7/3/2014	77.16	39.26	32.59	6.67	43.10	Nieto & Sons
	7/8/2014	77.16	38.59	32.45	6.14	43.36	Blaine Tech
	7/18/2014	77.16	37.15	32.73	4.42	43.46	Blaine Tech
	7/24/2014	77.16	37.78	32.48	5.30	43.51	Blaine Tech
	8/1/2014	77.16	36.72	32.30	4.42	43.89	Blaine Tech
	8/8/2014	77.16	36.55	32.26	4.29	43.96	Blaine Tech
	8/13/2014	77.16	36.25	32.33	3.92	43.97	Blaine Tech
	8/19/2014	77.16	36.04	32.38	3.66	43.97	Blaine Tech
	8/29/2014	77.16	36.23	32.33	3.90	43.97	Blaine Tech
	9/5/2014	77.16	36.26	32.35	3.91	43.95	Blaine Tech
	9/11/2014	77.16	36.27	32.33	3.94	43.96	Blaine Tech
	9/18/2014	77.16	36.42	32.37	4.05	43.90	Blaine Tech
9/26/2014	77.16	36.39	32.35	4.04	43.92	Blaine Tech	
10/1/2014	77.16	36.11	32.42	3.69	43.93	Blaine Tech	
10/6/2014	77.16	35.99	32.42	3.57	43.95	Blaine Tech	
10/14/2014	77.16	36.24	32.34	3.90	43.96	Blaine Tech	
10/23/2014	77.16	36.32	32.35	3.97	43.94	Blaine Tech	
10/27/2014	77.16	36.04	32.42	3.62	43.94	Blaine Tech	
11/3/2014	77.16	36.40	32.35	4.05	43.92	Blaine Tech	
11/10/2014	77.16	36.32	32.41	3.91	43.89	Blaine Tech	
11/18/2014	77.16	36.28	32.43	3.85	43.88	Blaine Tech	
11/25/2014	77.16	36.21	32.49	3.72	43.85	Blaine Tech	
12/3/2014	77.16	36.18	32.43	3.75	43.90	Blaine Tech	
12/12/2014	77.16	36.58	32.74	3.84	43.58	Blaine Tech	
12/19/2014	77.16	37.05	32.76	4.29	43.46	Blaine Tech	
3/6/2015	77.16	39.40	33.13	6.27	42.65	Kinder Morgan	
4/20/2015	77.16	36.98	32.99	3.99	43.29	Blaine Tech	
10/20/2015	77.16	34.61	34.37	0.24	42.74	Kinder Morgan	

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	3/14/2016	77.16	36.10	---	---	41.06	Blaine Tech
	4/11/2016	77.16	36.20	---	---	40.96	Blaine Tech
	6/30/2016	77.16	31.02	---	---	46.14	Kinder Morgan
	8/22/2016	77.16	37.27	---	---	39.89	Kinder Morgan
	10/3/2016	77.16	38.02	---	---	39.14	Blaine Tech
	3/7/2017	77.16	35.13	---	---	42.03	CH2M
GMW-10	4/30/2007	74.67	25.90	---	---	48.77	Secor
	11/12/2007	74.67	25.02	25.82	0.83	50.33	Secor
	4/14/2008	74.67	25.38	25.44	0.06	49.34	Secor
	10/13/2008	74.67	24.16	---	---	50.51	Stantec
	4/20/2009	74.67	24.46	---	---	50.21	Blaine Tech
	10/19/2009	74.67	27.20	---	---	47.47	Blaine Tech
	5/24/2010	74.67	26.72	---	---	47.95	Blaine Tech
	5/28/2010	74.67	26.70	---	---	47.97	Blaine Tech
	10/4/2010	74.67	27.15	---	---	47.52	Blaine Tech
	4/11/2011	74.67	25.21	---	---	49.46	Blaine Tech
	10/10/2011	74.67	27.75	---	---	46.92	Blaine Tech
	4/27/2012	74.67	28.47	---	---	46.20	Blaine Tech
	7/9/2012	74.67	NM	---	---	NC	Blaine Tech
	10/15/2012	74.67	29.15	29.02	0.13	45.63	Blaine Tech
	4/8/2013	74.67	33.64	28.12	5.52	45.53	Blaine Tech
	9/26/2013	73.35	36.15	29.25	6.90	42.82	Blaine Tech
	10/7/2013	73.35	31.85	29.32	2.53	43.56	Blaine Tech
	4/14/2014	73.35	29.43	29.01	0.42	44.26	Blaine Tech
	8/19/2014	73.35	29.80	29.53	0.27	43.77	Blaine Tech
	8/29/2014	73.35	29.68	29.25	0.43	44.02	Blaine Tech
	9/26/2014	73.35	29.98	29.23	0.75	43.98	Blaine Tech
	10/1/2014	73.35	29.98	29.19	0.79	44.01	Blaine Tech
	10/6/2014	73.35	30.01	29.16	0.85	44.03	Blaine Tech
	10/14/2014	73.35	30.01	29.18	0.83	44.02	Blaine Tech
	10/23/2014	73.35	30.17	29.15	1.02	44.01	Blaine Tech
	10/27/2014	73.35	30.19	29.12	1.07	44.03	Blaine Tech
	11/3/2014	73.35	30.25	29.13	1.12	44.01	Blaine Tech
	11/10/2014	73.35	29.85	29.28	0.57	43.96	Blaine Tech
	11/18/2014	73.35	29.95	29.28	0.67	43.95	Blaine Tech
	11/25/2014	73.35	30.00	29.27	0.73	43.94	Blaine Tech
	12/3/2014	73.35	30.18	29.27	0.91	43.91	Blaine Tech
	12/12/2014	73.35	30.81	29.45	1.36	43.65	Blaine Tech
12/19/2014	73.35	30.51	30.35	0.16	42.97	Blaine Tech	
4/20/2015	73.35	34.99	28.42	6.57	43.71	Blaine Tech	
7/17/2015	73.35	36.10	29.41	6.69	42.70	Blaine Tech	
10/20/2015	73.35	32.96	31.02	1.94	41.97	Kinder Morgan	
3/16/2016	73.35	34.47	33.42	1.05	39.74	Kinder Morgan	
4/11/2016	73.35	33.70	32.10	1.60	40.95	Blaine Tech	
6/29/2016	73.35	33.02	---	---	40.33	Blaine Tech	
8/22/2016	73.35	33.82	32.93	0.89	40.26	Blaine Tech	
10/3/2016	73.35	35.10	33.65	1.45	39.43	Blaine Tech	
3/8/2017	73.35	32.75	---	---	40.60	CH2M	
GMW-22	4/30/2007	74.17	25.79	---	---	48.38	Secor
	11/12/2007	74.17	26.45	25.91	0.54	48.16	Stantec
	8/12/2008	74.17	26.70	---	---	47.47	Envent
	10/31/2008	74.17	28.25	27.04	1.21	46.91	Envent
	11/4/2008	74.17	26.97	---	---	47.20	Envent
	12/17/2008	74.17	26.65	---	---	47.52	Envent
	1/15/2009	74.17	27.18	---	---	46.99	Envent
	3/27/2009	74.17	27.86	---	---	46.31	Envent
	4/21/2009	74.17	27.30	27.20	0.10	46.95	Envent
	7/21/2009	74.17	27.70	---	---	46.47	Envent

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	10/19/2009	74.17	NM	---	---	NC	Blaine Tech
	11/6/2009	74.17	28.12	---	---	46.05	Kinder Morgan
	9/3/2010	74.17	28.36	25.10	3.26	48.47	Kinder Morgan
	10/4/2010	74.17	27.65	---	---	46.52	Blaine Tech
	4/11/2011	74.17	26.45	---	---	47.72	Blaine Tech
	10/10/2011	74.17	29.68	---	---	44.49	Blaine Tech
	4/16/2012	74.17	31.15	---	---	43.02	Blaine Tech
	7/9/2012	---	NM	---	---	NC	Blaine Tech
	10/15/2012	77.24	31.05	---	---	46.19	Blaine Tech
	4/8/2013	77.24	31.92	---	---	45.32	Blaine Tech
	10/7/2013	77.24	34.28	31.65	2.63	45.10	Blaine Tech
	4/14/2014	77.24	35.59	32.30	3.29	44.33	Blaine Tech
	5/6/2014	77.24	35.87	32.35	3.52	44.24	Nieto & Sons
	5/12/2014	77.24	35.76	32.28	3.48	44.32	Nieto & Sons
	5/20/2014	77.24	37.90	32.70	5.20	43.58	Nieto & Sons
	5/27/2014	77.24	36.34	32.71	3.63	43.86	Nieto & Sons
	6/4/2014	77.24	33.36	---	---	43.88	Nieto & Sons
	6/10/2014	77.24	36.74	32.82	3.92	43.69	Nieto & Sons
	7/3/2014	77.24	37.66	32.91	4.75	43.45	Nieto & Sons
	7/8/2014	77.24	36.70	32.79	3.91	43.73	Blaine Tech
	7/18/2014	77.24	36.68	32.77	3.91	43.75	Blaine Tech
	7/24/2014	77.24	36.79	32.62	4.17	43.85	Blaine Tech
	8/1/2014	77.24	35.82	32.44	3.38	44.17	Blaine Tech
	8/8/2014	77.24	35.72	32.44	3.28	44.19	Blaine Tech
	8/13/2014	77.24	35.68	32.45	3.23	44.19	Blaine Tech
	8/19/2014	77.24	35.64	32.45	3.19	44.20	Blaine Tech
	8/29/2014	77.24	35.65	32.44	3.21	44.21	Blaine Tech
	9/5/2014	77.24	35.73	32.46	3.27	44.18	Blaine Tech
	9/11/2014	77.24	35.78	32.47	3.31	44.16	Blaine Tech
	9/18/2014	77.24	35.85	32.49	3.36	44.13	Blaine Tech
	9/26/2014	77.24	35.85	32.46	3.39	44.15	Blaine Tech
	10/1/2014	77.24	35.76	32.45	3.31	44.18	Blaine Tech
	10/6/2014	77.24	35.72	32.44	3.28	44.19	Blaine Tech
	10/14/2014	77.24	35.75	32.42	3.33	44.20	Blaine Tech
	10/23/2014	77.24	35.84	32.43	3.41	44.18	Blaine Tech
	10/27/2014	77.24	35.74	32.41	3.33	44.21	Blaine Tech
	11/3/2014	77.24	35.89	32.45	3.44	44.15	Blaine Tech
	11/10/2014	77.24	35.94	32.45	3.49	44.14	Blaine Tech
	11/18/2014	77.24	35.97	32.48	3.49	44.11	Blaine Tech
	11/25/2014	77.24	35.97	32.51	3.46	44.09	Blaine Tech
	12/3/2014	77.24	35.84	32.45	3.39	44.16	Blaine Tech
	12/12/2014	77.24	36.44	32.65	3.79	43.89	Blaine Tech
	12/19/2014	77.24	36.80	34.71	2.09	42.14	Blaine Tech
	4/20/2015	77.24	36.64	32.84	3.80	43.70	Blaine Tech
	7/24/2015	77.24	39.80	33.70	6.10	42.41	Northstar
	10/20/2015	77.24	36.10	34.92	1.18	42.10	Kinder Morgan
	3/16/2016	77.24	39.73	37.61	2.12	39.24	Kinder Morgan
	4/11/2016	77.24	38.59	35.50	3.09	41.17	Blaine Tech
	6/30/2016	77.24	36.55	---	---	40.69	Blaine Tech
	10/3/2016	77.24	37.70	---	---	39.54	Blaine Tech
GMW-24	4/30/2007	74.04	27.07	---	---	46.97	Secor
	11/12/2007	74.04	27.50	27.46	0.04	46.57	Stantec
	8/12/2008	74.04	NM	---	---	NC	Envent
	8/19/2008	74.04	29.34	28.24	1.10	45.58	Envent
	10/17/2008	74.04	30.88	29.90	0.98	43.94	Envent
	10/21/2008	74.04	29.64	28.30	1.34	45.47	Envent
	12/18/2008	74.04	29.04	---	---	45.00	Envent
	1/15/2009	74.04	30.56	29.80	0.76	44.09	Envent

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	3/20/2009	74.04	31.28	---	---	42.76	Envent
	3/27/2009	74.04	30.45	---	---	43.59	Envent
	4/21/2009	74.04	29.91	---	---	44.13	Envent
	7/21/2009	74.04	32.78	---	---	41.26	Envent
	10/19/2009	74.04	NM	---	---	NC	Blaine Tech
	2/4/2010	74.04	29.67	29.40	0.27	44.59	Kinder Morgan
	6/22/2010	74.04	29.47	---	---	44.57	Blaine Tech
	9/3/2010	74.04	29.90	---	---	44.14	Kinder Morgan
	10/4/2010	74.04	29.50	---	---	44.54	Blaine Tech
	4/11/2011	74.04	28.21	---	---	45.83	Blaine Tech
	10/10/2011	74.04	28.78	---	---	45.26	Blaine Tech
	4/16/2012	74.04	30.49	30.31	0.18	43.69	Blaine Tech
	7/9/2012	---	NM	---	---	NC	Blaine Tech
	10/15/2012	77.48	31.34	---	---	46.14	Blaine Tech
	4/8/2013	77.48	NM	---	---	NC	Blaine Tech
	6/14/2013	77.48	33.35	32.40	0.95	44.89	Blaine Tech
	10/7/2013	77.48	35.42	31.61	3.81	45.11	Blaine Tech
	4/14/2014	77.48	37.74	32.01	5.73	44.32	Blaine Tech
	5/5/2014	77.48	37.81	32.09	5.72	44.25	Nieto & Sons
	5/12/2014	77.48	37.52	32.14	5.38	44.26	Nieto & Sons
	5/20/2014	77.48	37.39	32.21	5.18	44.23	Nieto & Sons
	5/27/2014	77.48	37.95	32.90	5.05	43.57	Nieto & Sons
	6/4/2014	77.48	37.00	32.70	4.30	43.92	Nieto & Sons
	6/10/2014	77.48	37.85	32.98	4.87	43.53	Nieto & Sons
	7/3/2014	77.48	39.60	33.04	6.56	43.13	Nieto & Sons
	7/8/2014	77.48	38.67	32.89	5.78	43.43	Blaine Tech
	7/18/2014	77.48	38.64	32.86	5.78	43.46	Blaine Tech
	7/24/2014	77.48	38.27	32.82	5.45	43.57	Blaine Tech
	8/1/2014	77.48	37.00	32.55	4.45	44.04	Blaine Tech
	8/8/2014	77.48	36.97	32.51	4.46	44.08	Blaine Tech
	8/13/2014	77.48	36.82	32.54	4.28	44.08	Blaine Tech
	8/19/2014	77.48	36.92	32.55	4.37	44.06	Blaine Tech
	8/29/2014	77.48	36.92	32.51	4.41	44.09	Blaine Tech
	9/5/2014	77.48	36.97	32.55	4.42	44.05	Blaine Tech
	9/11/2014	77.48	37.99	32.57	5.42	43.83	Blaine Tech
	9/18/2014	77.48	36.89	32.60	4.29	44.02	Blaine Tech
	9/26/2014	77.48	36.86	32.58	4.28	44.04	Blaine Tech
	10/1/2014	77.48	36.64	32.61	4.03	44.06	Blaine Tech
	10/6/2014	77.48	36.93	32.92	4.01	43.76	Blaine Tech
	10/14/2014	77.48	36.92	32.88	4.04	43.79	Blaine Tech
	10/23/2014	77.48	37.00	32.90	4.10	43.76	Blaine Tech
	10/27/2014	77.48	36.82	32.91	3.91	43.79	Blaine Tech
	11/3/2014	77.48	37.01	32.99	4.02	43.69	Blaine Tech
	11/10/2014	77.48	37.33	33.95	3.38	42.85	Blaine Tech
	11/18/2014	77.48	36.96	33.01	3.95	43.68	Blaine Tech
	11/25/2014	77.48	36.91	33.55	3.36	43.26	Blaine Tech
	12/3/2014	77.48	36.87	32.99	3.88	43.71	Blaine Tech
	12/12/2014	77.48	37.36	33.25	4.11	43.41	Blaine Tech
	12/19/2014	77.48	37.75	33.31	4.44	43.28	Blaine Tech
	3/10/2015	77.48	36.25	---	---	41.23	Kinder Morgan
	4/20/2015	77.48	36.29	33.82	2.47	43.17	Blaine Tech
	7/24/2015	77.48	39.80	33.70	6.10	42.56	Blaine Tech
	10/20/2015	77.48	35.44	---	---	42.04	Kinder Morgan
	3/16/2016	77.48	38.83	---	---	38.65	Kinder Morgan
	4/11/2016	77.48	37.10	---	---	40.38	Blaine Tech
	6/29/2016	77.48	38.20	---	---	39.28	Blaine Tech
	8/22/2016	77.48	38.40	---	---	39.08	Blaine Tech
	10/3/2016	77.48	38.70	---	---	39.44	Blaine Tech

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
GMW-25	4/30/2007	74.29	26.60	---	---	47.69	Secor
	11/12/2007	74.29	27.30	27.25	0.05	47.03	Stantec
	8/12/2008	74.29	27.81	---	---	46.48	Envent
	10/17/2008	74.29	28.26	---	---	46.03	Envent
	12/18/2008	74.29	29.01	---	---	45.28	Envent
	1/15/2009	74.29	28.62	---	---	45.67	Envent
	3/24/2009	74.29	28.79	---	---	45.50	Envent
	4/21/2009	74.29	28.35	---	---	45.94	Envent
	7/21/2009	74.29	29.80	---	---	44.49	Envent
	10/19/2009	74.29	30.28	---	---	44.01	Blaine Tech
	6/22/2010	74.29	31.64	---	---	42.65	Blaine Tech
	10/4/2010	74.29	29.25	---	---	45.04	Blaine Tech
	4/11/2011	74.29	26.21	---	---	48.08	Blaine Tech
	10/10/2011	74.29	30.02	---	---	44.27	Blaine Tech
	4/16/2012	74.29	31.30	---	---	42.99	Blaine Tech
	7/9/2012	---	NM	---	---	NC	Blaine Tech
	10/15/2012	78.14	31.88	---	---	46.26	Blaine Tech
	4/8/2013	78.14	32.11	---	---	46.03	Blaine Tech
	10/7/2013	78.14	33.23	33.10	0.13	45.01	Blaine Tech
	4/14/2014	78.14	37.40	33.00	4.40	44.13	Blaine Tech
	5/5/2014	78.14	37.51	33.06	4.45	44.06	Nieto & Sons
	5/12/2014	78.14	34.97	33.73	1.24	44.12	Nieto & Sons
	5/20/2014	78.14	36.75	34.30	2.45	43.28	Nieto & Sons
	5/27/2014	78.14	34.64	34.44	0.20	43.65	Nieto & Sons
	6/4/2014	78.14	35.00	---	---	43.14	Nieto & Sons
	6/10/2014	78.14	36.67	34.18	2.49	43.39	Nieto & Sons
	7/3/2014	78.14	34.21	---	---	43.93	Nieto & Sons
	7/24/2014	78.14	34.29	---	---	43.85	Blaine Tech
	8/1/2014	78.14	35.02	33.99	1.03	43.91	Blaine Tech
	8/8/2014	78.14	34.54	34.06	0.48	43.97	Blaine Tech
	8/14/2014	78.14	34.48	34.06	0.42	43.98	Blaine Tech
	8/19/2014	78.14	34.51	34.07	0.44	43.97	Blaine Tech
	8/29/2014	78.14	34.65	33.96	0.69	44.02	Blaine Tech
	9/18/2014	78.14	35.21	34.01	1.20	43.85	Blaine Tech
	9/26/2014	78.14	34.87	34.06	0.81	43.89	Blaine Tech
	10/1/2014	78.14	34.92	33.98	0.94	43.94	Blaine Tech
	10/6/2014	78.14	34.93	33.99	0.94	43.93	Blaine Tech
	10/14/2014	78.14	35.10	33.91	1.19	43.96	Blaine Tech
	10/23/2014	78.14	35.34	33.91	1.43	43.90	Blaine Tech
	10/27/2014	78.14	34.78	33.95	0.83	44.00	Blaine Tech
11/3/2014	78.14	34.92	33.98	0.94	43.94	Blaine Tech	
11/10/2014	78.14	35.12	34.02	1.10	43.87	Blaine Tech	
11/18/2014	78.14	34.90	34.11	0.79	43.85	Blaine Tech	
11/25/2014	78.14	35.07	34.07	1.00	43.84	Blaine Tech	
12/3/2014	78.14	35.10	33.98	1.12	43.90	Blaine Tech	
12/12/2014	78.14	35.22	34.30	0.92	43.63	Blaine Tech	
12/19/2014	78.14	35.05	34.50	0.55	43.51	Blaine Tech	
4/20/2015	78.14	35.19	34.47	0.72	43.50	Blaine Tech	
6/25/2015	78.14	36.35	35.40	0.95	42.52	Blaine Tech	
10/20/2015	78.14	35.40	35.38	0.02	42.76	Kinder Morgan	
3/16/2016	78.14	38.99	---	---	39.15	Kinder Morgan	
4/12/2016	78.14	37.15	---	---	40.99	Kinder Morgan	
6/29/2016	78.14	38.40	---	---	39.74	Blaine Tech	
8/22/2016	78.14	38.44	---	---	39.70	Blaine Tech	
10/3/2016	78.14	38.70	---	---	39.44	Blaine Tech	
GMW-36	3/12/2007	74.53	24.29	---	---	50.24	Secor
	4/30/2007	74.53	24.40	---	---	50.13	Secor
	8/28/2007	74.53	24.31	---	---	50.22	Stantec

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	11/12/2007	74.53	24.86	24.85	0.01	49.68	Stantec
	2/19/2008	74.53	25.50	---	---	49.03	Stantec
	4/14/2008	74.53	24.61	---	---	49.92	Stantec
	8/8/2008	74.53	26.20	26.14	0.06	48.38	Envent
	10/16/2008	74.77	26.11	26.09	0.02	48.68	Envent
	12/18/2008	74.53	28.70	28.65	0.05	45.87	Envent
	1/15/2009	74.53	27.73	27.45	0.28	47.02	Envent
	2/20/2009	74.53	26.39	26.35	0.04	48.17	Envent
	2/23/2009	74.53	26.13	25.80	0.33	48.66	Blaine Tech
	3/24/2009	74.53	29.83	---	---	44.70	Envent
	4/20/2009	74.53	25.63	25.59	0.04	48.93	Blaine Tech
	7/17/2009	74.53	27.40	---	---	47.13	Envent
	7/20/2009	74.53	25.90	---	---	48.63	Blaine Tech
	7/21/2009	74.53	26.03	---	---	48.50	Envent
	7/22/2009	74.53	25.90	---	---	48.63	Blaine Tech
	10/19/2009	74.53	26.56	26.45	0.11	48.06	Blaine Tech
	2/4/2010	74.53	26.93	26.80	0.13	47.70	Kinder Morgan
	3/15/2010	74.53	26.80	---	---	47.73	Blaine Tech
	4/16/2010	74.53	26.90	---	---	47.63	Blaine Tech
	5/24/2010	74.53	25.96	25.90	0.06	48.62	Blaine Tech
	5/28/2010	74.53	25.94	25.88	0.06	48.64	Blaine Tech
	6/22/2010	74.53	25.94	25.91	0.03	48.61	Blaine Tech
	7/12/2010	74.53	NM	---	---	NC	
	8/12/2010	74.53	NM	---	---	NC	
	9/20/2010	74.53	NM	---	---	NC	
	10/4/2010	74.53	26.90	---	---	47.63	
	10/24/2010	74.53	26.90	---	---	47.63	Blaine Tech
	11/23/2010	74.53	27.35	27.10	0.25	47.38	Blaine Tech
	12/22/2010	74.53	28.35	26.84	1.51	47.39	Blaine Tech
	1/10/2011	74.53	29.10	27.70	1.40	46.55	Blaine Tech
	2/24/2011	74.53	NM	---	---	NC	Blaine Tech
	3/23/2011	74.53	NM	---	---	NC	Blaine Tech
	4/12/2011	74.53	26.98	25.05	1.93	49.09	Blaine Tech
	5/13/2011	74.53	NM	---	---	NC	Blaine Tech
	6/22/2011	74.53	NM	---	---	NC	
	7/11/2011	74.53	NM	---	---	NC	
	8/19/2011	74.53	NM	---	---	NC	
	9/22/2011	74.53	NM	---	---	NC	
	10/10/2011	74.53	25.96	---	---	48.57	Blaine Tech
	11/28/2011	74.53	NM	---	---	NC	
	12/2/2011	74.53	26.71	---	---	47.82	Kinder Morgan
	12/21/2011	74.53	28.17	---	---	46.36	Blaine Tech
	1/9/2012	74.53	27.26	---	---	47.27	Blaine Tech
	2/23/2012	74.53	27.85	---	---	46.68	Blaine Tech
	3/28/2012	74.53	NM	---	---	NC	Blaine Tech
	4/16/2012	74.53	27.34	---	---	47.19	Blaine Tech
	5/25/2012	74.53	NM	---	---	NC	Blaine Tech
	6/15/2012	---	33.27	---	---	NC	Blaine Tech
	7/9/2012	---	33.71	---	---	NC	Blaine Tech
	8/29/2012	---	NM	---	---	NC	Blaine Tech
	9/26/2012	---	NM	---	---	NC	Blaine Tech
	10/15/2012	76.66	32.11	---	---	44.55	Blaine Tech
	11/29/2012	76.66	33.93	31.68	2.25	44.53	Blaine Tech
	12/26/2012	76.66	34.86	30.36	4.50	45.40	Blaine Tech
	1/14/2013	76.66	34.12	30.42	3.70	45.50	Blaine Tech
	2/20/2013	76.66	NM	---	---	NC	Blaine Tech
	4/10/2013	76.66	32.42	29.75	2.67	46.38	Blaine Tech
	10/7/2013	76.66	34.65	30.72	3.93	45.15	Blaine Tech

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	4/25/2014	76.66	34.71	31.12	3.59	44.82	Blaine Tech
	5/20/2014	76.66	34.95	31.50	3.45	44.47	Nieto & Sons
	5/27/2014	76.66	34.53	31.29	3.24	44.72	Nieto & Sons
	6/4/2014	76.66	34.93	31.50	3.43	44.47	Nieto & Sons
	8/13/2014	76.66	34.86	31.27	3.59	44.67	Blaine Tech
	8/19/2014	76.66	34.20	31.39	2.81	44.71	Blaine Tech
	8/29/2014	76.66	34.31	31.32	2.99	44.74	Blaine Tech
	9/5/2014	76.66	34.35	31.37	2.98	44.69	Blaine Tech
	9/11/2014	76.66	35.00	31.23	3.77	44.68	Blaine Tech
	9/18/2014	76.66	34.42	31.50	2.92	44.58	Blaine Tech
	9/26/2014	76.66	34.15	31.48	2.67	44.65	Blaine Tech
	10/1/2014	76.66	33.51	31.61	1.90	44.67	Blaine Tech
	10/6/2014	76.66	33.29	31.63	1.66	44.70	Blaine Tech
	10/14/2014	76.66	33.48	31.55	1.93	44.72	Blaine Tech
	10/23/2014	76.66	33.64	31.57	2.07	44.68	Blaine Tech
	10/27/2014	76.66	33.02	31.79	1.23	44.62	Blaine Tech
	11/3/2014	76.66	33.75	31.57	2.18	44.65	Blaine Tech
	11/18/2014	76.66	33.17	31.75	1.42	44.63	Blaine Tech
	11/25/2014	76.66	33.13	31.86	1.27	44.55	Blaine Tech
	12/3/2014	76.66	32.93	31.75	1.18	44.67	Blaine Tech
4/20/2015	76.66	33.64	32.20	1.44	44.17	Blaine Tech	
10/21/2015	76.66	33.55	33.16	0.39	43.42	Blaine Tech	
4/12/2016	76.66	34.30	34.03	0.27	42.58	Kinder Morgan	
10/3/2016	76.66	35.05	34.65	0.40	41.93	Blaine Tech	
3/9/2017	76.66	33.45	---	---	43.21	CH2M	
GMW-O-11	4/30/2007	74.17	23.91	23.90	0.01	50.27	Secor
	11/12/2007	74.17	24.40	---	---	49.77	Stantec
	8/15/2008	74.17	29.30	---	---	44.87	Envent
	10/17/2008	74.17	24.45	---	---	49.72	Envent
	12/19/2008	74.17	24.85	---	---	49.32	Envent
	1/15/2009	74.17	26.87	24.38	2.49	49.29	Envent
	2/24/2009	74.17	24.31	24.21	0.10	49.94	Envent
	3/27/2009	74.17	31.08	---	---	43.09	Envent
	4/21/2009	74.17	25.36	25.34	0.02	48.83	Envent
	7/21/2009	74.17	26.18	---	---	47.99	Envent
	10/19/2009	74.17	NM	---	---	NC	Blaine Tech
	11/6/2009	74.17	26.33	26.18	0.15	47.96	Kinder Morgan
	10/4/2010	74.17	30.00	---	---	44.17	Blaine Tech
	4/13/2011	74.17	24.19	---	---	49.98	Blaine Tech
	10/10/2011	74.17	24.38	---	---	49.79	Blaine Tech
	4/16/2012	74.17	NM	---	---	NC	Blaine Tech
	7/9/2012	74.17	NM	---	---	NC	Blaine Tech
	10/15/2012	74.17	28.12	---	---	46.05	Blaine Tech
	4/8/2013	74.17	NM	---	---	NC	Blaine Tech
	9/24/2013	74.17	31.25	28.15	3.10	45.40	Blaine Tech
	10/7/2013	74.17	31.19	27.69	3.50	45.78	Blaine Tech
	4/25/2014	74.17	28.96	28.62	0.34	45.48	Blaine Tech
	9/5/2014	74.17	31.13	27.89	3.24	45.63	Blaine Tech
	9/11/2014	74.17	31.12	27.85	3.27	45.67	Blaine Tech
	9/18/2014	74.17	31.22	27.85	3.37	45.65	Blaine Tech
	9/26/2014	74.17	31.34	27.91	3.43	45.57	Blaine Tech
	10/1/2014	74.17	31.19	27.84	3.35	45.66	Blaine Tech
10/6/2014	74.17	32.19	27.84	4.35	45.46	Blaine Tech	
10/14/2014	74.17	31.18	28.85	2.33	44.85	Blaine Tech	
10/23/2014	74.17	31.34	27.85	3.49	45.62	Blaine Tech	
10/27/2014	74.17	31.28	28.89	2.39	44.80	Blaine Tech	
11/3/2014	74.17	32.34	27.83	4.51	45.44	Blaine Tech	
11/10/2014	74.17	31.46	27.97	3.49	45.50	Blaine Tech	

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	11/18/2014	74.17	31.41	27.88	3.53	45.58	Blaine Tech
	11/25/2014	74.17	31.48	27.87	3.61	45.58	Blaine Tech
	12/3/2014	74.17	33.34	29.95	3.39	43.54	Blaine Tech
	12/12/2014	74.17	33.25	29.08	4.17	44.26	Blaine Tech
	12/19/2014	74.17	32.52	28.09	4.43	45.19	Blaine Tech
	4/22/2015	74.17	31.54	28.10	3.44	45.38	Blaine Tech
	10/22/2015	74.17	33.08	29.23	3.85	44.17	Kinder Morgan
	3/16/2016	74.17	33.39	33.16	0.23	40.96	Kinder Morgan
	4/12/2016	74.17	33.33	33.12	0.21	41.01	Kinder Morgan
	6/30/2016	74.17	31.50	---	---	42.67	Kinder Morgan
	8/22/2016	74.17	32.75	32.74	0.01	41.43	Kinder Morgan
	10/3/2016	74.17	32.72	32.71	0.01	41.46	Kinder Morgan
	3/24/2017	74.17	31.50	30.45	1.05	43.51	CH2M
GMW-O-12	4/30/2007	73.49	22.81	---	---	50.68	Secor
	11/12/2007	73.49	23.13	---	---	50.36	Stantec
	4/14/2008	73.49	23.36	---	---	50.13	Stantec
	10/13/2008	73.49	24.20	---	---	49.29	Stantec
	4/20/2009	73.49	24.21	---	---	49.28	Blaine Tech
	10/19/2009	73.49	25.08	---	---	48.41	Blaine Tech
	5/24/2010	73.49	24.80	---	---	48.69	Blaine Tech
	5/28/2010	73.49	24.74	---	---	48.75	Blaine Tech
	10/4/2010	73.49	25.31	25.20	0.11	48.27	Blaine Tech
	1/10/2011	73.49	26.42	26.32	0.10	47.15	Blaine Tech
	4/11/2011	73.49	24.04	---	---	49.45	Blaine Tech
	7/11/2011	73.49	NM	---	---	NC	
	10/10/2011	73.49	24.68	---	---	48.81	Blaine Tech
	1/9/2012	73.49	25.12	---	---	48.37	Blaine Tech
	4/16/2012	73.49	25.40	---	---	48.09	Blaine Tech
	7/9/2012	73.49	26.96	---	---	46.53	Blaine Tech
	10/15/2012	73.49	25.48	25.44	0.04	48.04	Blaine Tech
	1/14/2013	73.49	25.62	25.58	0.04	47.90	Blaine Tech
	4/8/2013	73.49	26.60	26.51	0.09	46.96	Blaine Tech
	9/24/2013	73.49	27.90	27.74	0.16	45.72	Blaine Tech
	10/7/2013	73.49	27.34	27.28	0.06	46.20	Blaine Tech
	4/14/2014	73.49	30.34	26.80	3.54	45.96	Blaine Tech
	5/6/2014	73.49	30.93	26.74	4.19	45.89	Nieto & Sons
	5/12/2014	73.49	30.81	26.82	3.99	45.85	Nieto & Sons
	5/20/2014	73.49	31.78	27.32	4.46	45.26	Nieto & Sons
	5/27/2014	73.49	33.04	26.78	6.26	45.43	Nieto & Sons
	6/4/2014	73.49	33.00	27.75	5.25	44.66	Nieto & Sons
	6/10/2014	73.49	34.53	26.81	7.72	45.10	Nieto & Sons
	7/3/2014	73.49	34.27	26.94	7.33	45.05	Blaine Tech
	7/8/2014	73.49	33.87	26.87	7.00	45.19	Blaine Tech
	7/18/2014	73.49	33.36	27.07	6.29	45.13	Blaine Tech
	7/24/2014	73.49	33.00	26.98	6.02	45.28	Blaine Tech
	8/1/2014	73.49	31.80	26.83	4.97	45.64	Blaine Tech
8/8/2014	73.49	31.26	26.91	4.35	45.69	Blaine Tech	
8/13/2014	73.49	31.18	26.88	4.30	45.73	Blaine Tech	
8/19/2014	73.49	31.01	26.86	4.15	45.78	Blaine Tech	
8/29/2014	73.49	31.03	26.89	4.14	45.75	Blaine Tech	
9/5/2014	73.49	31.19	26.88	4.31	45.73	Blaine Tech	
9/18/2014	73.49	31.30	26.82	4.48	45.75	Blaine Tech	
9/26/2014	73.49	31.33	26.89	4.44	45.69	Blaine Tech	
10/1/2014	73.49	31.21	26.85	4.36	45.75	Blaine Tech	
10/6/2014	73.49	31.20	29.84	1.36	43.37	Blaine Tech	
10/14/2014	73.49	31.14	26.86	4.28	45.75	Blaine Tech	
10/23/2014	73.49	31.30	26.85	4.45	45.73	Blaine Tech	
10/27/2014	73.49	31.28	26.90	4.38	45.69	Blaine Tech	

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	11/3/2014	73.49	32.30	26.84	5.46	45.53	Blaine Tech
	11/10/2014	73.49	31.45	26.91	4.54	45.65	Blaine Tech
	11/18/2014	73.49	32.34	26.90	5.44	45.47	Blaine Tech
	11/25/2014	73.49	31.57	27.87	3.70	44.86	Blaine Tech
	12/3/2014	73.49	33.87	28.81	5.06	43.64	Blaine Tech
	12/19/2014	73.49	32.78	26.97	5.81	45.33	Blaine Tech
	4/20/2015	73.49	33.35	26.91	6.44	45.26	Blaine Tech
	4/22/2015	73.49	33.35	26.91	6.44	45.26	Blaine Tech
	5/21/2015	73.49	34.31	27.35	6.96	44.71	Northstar
	5/29/2015	73.49	34.15	27.24	6.91	44.83	Northstar
	6/2/2015	73.49	34.00	27.27	6.73	44.84	Northstar
	6/5/2015	73.49	34.00	27.50	6.50	44.66	Northstar
	6/12/2015	73.49	33.96	27.35	6.61	44.78	Northstar
	6/19/2015	73.49	33.98	27.58	6.40	44.60	Northstar
	6/26/2015	73.49	33.97	28.15	5.82	44.15	Northstar
	7/2/2015	73.49	33.83	28.20	5.63	44.14	Northstar
	7/7/2015	73.49	33.60	27.93	5.67	44.40	Northstar
	7/17/2015	73.49	33.57	27.85	5.72	44.47	Northstar
	7/24/2015	73.49	33.15	28.25	4.90	44.24	Northstar
	7/29/2015	73.49	33.02	28.10	4.92	44.38	Northstar
	8/11/2015	73.49	33.00	28.90	4.10	43.75	Northstar
	8/18/2015	73.49	32.65	28.23	4.42	44.35	Northstar
	8/28/2015	73.49	32.41	28.17	4.24	44.45	Kinder Morgan
	9/1/2015	73.49	33.18	28.65	4.53	43.91	Kinder Morgan
	9/25/2015	73.49	34.69	28.03	6.66	44.09	Kinder Morgan
	10/16/2015	73.49	34.63	27.83	6.80	44.27	Kinder Morgan
	10/19/2015	73.49	34.65	27.82	6.83	44.27	Blaine Tech
	10/30/2015	73.49	39.38	28.11	11.27	43.07	Kinder Morgan
	3/14/2016	73.49	32.40	31.60	0.80	41.73	Blaine Tech
	4/11/2016	73.49	33.35	26.86	6.49	45.30	Blaine Tech
	6/29/2016	73.49	33.90	33.10	0.80	40.23	Blaine Tech
	8/22/2016	73.49	33.56	31.07	2.49	41.91	Blaine Tech
	10/3/2016	73.49	34.20	31.90	2.30	41.12	Blaine Tech
GMW-O-15	4/30/2007	74.23	23.41	23.30	0.11	50.91	Secor
	11/12/2007	74.23	23.95	23.85	0.10	50.36	Stantec
	4/14/2008	74.23	23.64	---	---	50.59	Stantec
	8/8/2008	74.23	24.60	---	---	49.63	Envent
	8/11/2008	74.23	24.40	24.34	0.06	49.88	Stantec
	10/16/2008	74.23	24.53	---	---	49.70	Envent
	12/18/2008	74.23	24.86	---	---	49.37	Envent
	1/2/2009	74.23	24.82	---	---	49.41	Envent
	1/15/2009	74.23	26.01	---	---	48.22	Envent
	2/20/2009	74.23	24.80	---	---	49.43	Envent
	2/23/2009	74.23	24.76	24.74	0.02	49.49	Blaine Tech
	3/24/2009	74.23	25.55	---	---	48.68	Envent
	4/20/2009	74.23	24.66	24.61	0.05	49.61	Blaine Tech
	7/17/2009	74.23	25.01	---	---	49.22	Envent
	7/20/2009	74.23	24.99	24.94	0.05	49.28	Blaine Tech
	7/22/2009	74.23	24.99	24.94	0.05	49.28	Blaine Tech
	10/19/2009	74.23	25.55	25.43	0.12	48.78	Blaine Tech
	2/4/2010	74.23	25.50	25.48	0.02	48.75	Kinder Morgan
	3/15/2010	74.23	NM	---	---	NC	
	4/16/2010	74.23	23.10	---	---	51.13	Blaine Tech
	5/24/2010	74.23	25.67	---	---	48.56	Blaine Tech
	5/28/2010	74.23	25.35	---	---	48.88	Blaine Tech
	6/22/2010	74.23	25.81	---	---	48.42	Blaine Tech
	7/12/2010	74.23	NM	---	---	NC	
	8/12/2010	74.23	NM	---	---	NC	

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	9/20/2010	74.23	NM	---	---	NC	
	10/4/2010	74.23	25.85	25.80	0.05	48.42	Blaine Tech
	11/23/2010	74.23	NM	---	---	NC	Blaine Tech
	12/22/2010	74.23	26.31	---	---	47.92	Blaine Tech
	1/10/2011	74.23	25.97	---	---	48.26	Blaine Tech
	2/24/2011	74.23	NM	---	---	NC	Blaine Tech
	3/23/2011	74.23	NM	---	---	NC	Blaine Tech
	4/12/2011	74.23	22.55	22.53	0.02	51.70	Blaine Tech
	5/13/2011	74.23	NM	---	---	NC	Blaine Tech
	6/22/2011	74.23	NM	---	---	NC	
	7/11/2011	74.23	NM	---	---	NC	
	8/19/2011	74.23	NM	---	---	NC	
	9/22/2011	74.23	NM	---	---	NC	
	10/10/2011	74.23	23.79	23.22	0.57	50.90	Blaine Tech
	11/28/2011	74.23	NM	---	---	NC	
	12/2/2011	74.23	23.92	23.86	0.06	50.36	Kinder Morgan
	12/21/2011	74.23	31.13	---	---	43.10	Blaine Tech
	1/9/2012	74.23	27.67	---	---	46.56	Blaine Tech
	2/23/2012	74.23	31.82	---	---	42.41	Blaine Tech
	3/28/2012	74.23	30.30	---	---	43.93	Blaine Tech
	4/16/2012	74.23	26.56	26.51	0.05	47.71	Blaine Tech
	5/25/2012	74.23	26.64	---	---	47.59	Blaine Tech
	6/15/2012	74.23	26.93	---	---	47.30	Blaine Tech
	7/9/2012	74.23	25.47	---	---	48.76	Blaine Tech
	8/29/2012	74.23	NM	---	---	NC	Blaine Tech
	9/26/2012	74.23	30.64	---	---	43.59	Blaine Tech
	10/15/2012	74.23	31.82	---	---	42.41	Blaine Tech
	11/29/2012	74.23	NM	---	---	NC	Blaine Tech
	12/26/2012	74.23	27.41	---	---	46.82	Blaine Tech
	1/14/2013	74.23	27.62	---	---	46.61	Blaine Tech
	2/20/2013	74.23	NM	---	---	NC	Blaine Tech
	4/10/2013	74.23	NM	---	---	NC	Blaine Tech
	4/26/2013	74.23	27.90	---	---	46.33	Kinder Morgan
	10/7/2013	74.23	29.03	28.26	0.77	45.82	Blaine Tech
	4/18/2014	74.23	28.40	28.08	0.32	46.09	Blaine Tech
	8/14/2014	74.23	32.59	28.26	4.33	45.10	Blaine Tech
	8/19/2014	74.23	32.34	28.23	4.11	45.18	Blaine Tech
	8/29/2014	74.23	31.84	28.25	3.59	45.26	Blaine Tech
	9/5/2014	74.23	31.91	28.29	3.62	45.22	Blaine Tech
	9/11/2014	74.23	32.16	28.79	3.37	44.77	Blaine Tech
	9/18/2014	74.23	32.50	28.23	4.27	45.15	Blaine Tech
	9/26/2014	74.23	32.20	28.27	3.93	45.17	Blaine Tech
	10/1/2014	74.23	31.93	28.28	3.65	45.22	Blaine Tech
	10/6/2014	74.23	31.91	28.27	3.64	45.23	Blaine Tech
	10/14/2014	74.23	31.85	28.29	3.56	45.23	Blaine Tech
	10/23/2014	74.23	32.10	28.30	3.80	45.17	Blaine Tech
	10/27/2014	74.23	31.89	28.30	3.59	45.21	Blaine Tech
	11/18/2014	74.23	31.86	28.39	3.47	45.15	Blaine Tech
	11/25/2014	74.23	32.36	28.35	4.01	45.08	Blaine Tech
	12/3/2014	74.23	31.73	28.36	3.37	45.20	Blaine Tech
	12/12/2014	74.23	32.61	28.54	4.07	44.88	Blaine Tech
	12/19/2014	74.23	32.62	28.37	4.25	45.01	Blaine Tech
	4/20/2015	74.23	31.93	28.82	3.11	44.79	Blaine Tech
	10/19/2015	74.23	31.91	28.89	3.02	44.74	Blaine Tech
	4/12/2016	74.23	29.78	---	---	44.45	Kinder Morgan
	10/3/2016	74.86	31.00	30.92	0.08	43.92	Kinder Morgan
	3/9/2017	74.86	29.94	---	---	44.92	CH2M

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
GMW-O-18	4/30/2007	74.36	24.21	---	---	50.15	Secor
	11/12/2007	74.36	22.46	---	---	51.90	Secor
	4/14/2008	74.36	24.50	---	---	49.86	Secor
	10/13/2008	74.36	25.46	---	---	48.90	Stantec
	4/20/2009	74.36	25.59	---	---	48.77	Blaine Tech
	10/19/2009	74.36	26.31	---	---	48.05	Blaine Tech
	3/15/2010	74.36	26.54	---	---	47.82	Blaine Tech
	4/16/2010	74.36	24.25	---	---	50.11	Blaine Tech
	5/24/2010	74.36	26.26	---	---	48.10	Blaine Tech
	5/28/2010	74.36	26.03	---	---	48.33	Blaine Tech
	6/22/2010	74.36	26.41	---	---	47.95	
	7/12/2010	74.36	NM	---	---	NC	
	8/12/2010	74.36	NM	---	---	NC	
	9/20/2010	74.36	NM	---	---	NC	
	10/4/2010	74.36	29.95	---	---	44.41	Blaine Tech
	11/16/2010	74.36	NM	---	---	NC	
	12/22/2010	74.36	NM	---	---	NC	
	1/10/2011	74.36	NM	---	---	NC	
	2/24/2011	74.36	NM	---	---	NC	Blaine Tech
	3/23/2011	74.36	NM	---	---	NC	Blaine Tech
	4/12/2011	74.36	NM	---	---	NC	Blaine Tech
	5/13/2011	74.36	NM	---	---	NC	Blaine Tech
	6/22/2011	74.36	NM	---	---	NC	
	7/11/2011	74.36	NM	---	---	NC	
	8/19/2011	74.36	NM	---	---	NC	
	9/22/2011	74.36	NM	---	---	NC	
	10/10/2011	74.36	23.68	---	---	50.68	Blaine Tech
	11/28/2011	74.36	NM	---	---	NC	
	12/2/2011	74.36	24.22	---	---	50.14	Blaine Tech
	12/21/2011	74.36	27.14	---	---	47.22	Blaine Tech
	2/23/2012	74.36	31.18	---	---	43.18	Blaine Tech
	3/28/2012	74.36	NM	---	---	NC	Blaine Tech
	4/16/2012	74.36	27.10	---	---	47.26	Blaine Tech
	5/25/2012	74.36	27.31	---	---	47.05	Blaine Tech
	6/15/2012	74.36	35.13	---	---	39.23	Blaine Tech
	7/9/2012	74.36	29.51	---	---	44.85	Blaine Tech
	8/29/2012	74.36	NM	---	---	NC	Blaine Tech
	9/26/2012	74.36	30.83	---	---	43.53	Blaine Tech
	10/15/2012	74.36	29.73	---	---	44.63	Blaine Tech
	11/29/2012	74.36	NM	---	---	NC	Blaine Tech
	12/26/2012	74.36	28.87	---	---	45.49	Blaine Tech
	1/14/2013	74.36	28.92	---	---	45.44	Blaine Tech
2/20/2013	74.36	NM	---	---	NC	Blaine Tech	
4/10/2013	74.36	28.10	---	---	46.26	Blaine Tech	
10/7/2013	74.36	26.67	---	---	47.69	Blaine Tech	
4/18/2014	74.36	29.43	29.37	0.06	44.98	Blaine Tech	
8/14/2014	74.36	29.87	29.45	0.42	44.83	Blaine Tech	
8/19/2014	74.36	29.97	29.58	0.39	44.70	Blaine Tech	
8/29/2014	74.36	29.77	29.34	0.43	44.93	Blaine Tech	
9/11/2014	74.36	29.96	29.61	0.35	44.68	Blaine Tech	
9/18/2014	74.36	29.95	29.56	0.39	44.72	Blaine Tech	
9/26/2014	74.36	29.97	29.55	0.42	44.73	Blaine Tech	
10/1/2014	74.36	29.90	29.52	0.38	44.76	Blaine Tech	
10/6/2014	74.36	29.94	29.56	0.38	44.72	Blaine Tech	
10/14/2014	74.36	29.94	29.58	0.36	44.71	Blaine Tech	
10/23/2014	74.36	30.00	29.62	0.38	44.66	Blaine Tech	
10/27/2014	74.36	29.95	29.52	0.43	44.75	Blaine Tech	
4/20/2015	74.36	28.53	---	---	45.83	Blaine Tech	

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	10/19/2015	74.36	30.90	---	---	43.46	Blaine Tech
	4/12/2016	74.36	31.63	---	---	42.73	Blaine Tech
	12/13/2016	74.32	35.95	31.01	4.94	42.32	Blaine Tech
	12/14/2016	74.32	32.60	---	---	41.72	Blaine Tech
	3/6/2017	74.32	33.40	32.60	0.80	41.56	CH2M
GMW-O-20	8/15/2008	73.32	25.90	---	---	47.42	Envent
	10/17/2008	73.32	25.82	---	---	47.50	Envent
	12/19/2008	73.32	27.15	---	---	46.17	Envent
	1/15/2009	73.32	26.53	26.09	0.44	47.15	Envent
	2/24/2009	73.32	27.85	---	---	45.47	Envent
	3/20/2009	73.32	28.81	---	---	44.51	Envent
	3/27/2009	73.32	27.84	---	---	45.48	Envent
	4/21/2009	73.32	28.70	---	---	44.62	Envent
	7/21/2009	73.32	24.10	---	---	49.22	Envent
	10/19/2009	73.32	NM	---	---	NC	Blaine Tech
	11/9/2009	73.32	25.60	25.40	0.20	47.88	Kinder Morgan
	6/22/2010	73.32	24.76	24.66	0.10	48.64	Blaine Tech
	10/4/2010	73.32	31.20	31.10	0.10	42.20	Blaine Tech
	1/10/2011	73.32	26.62	26.48	0.14	46.81	Blaine Tech
	4/11/2011	73.32	23.82	---	---	49.50	Blaine Tech
	7/11/2011	73.32	NM	---	---	NC	
	10/10/2011	73.32	24.05	---	---	49.27	Blaine Tech
	1/9/2012	73.32	24.68	---	---	48.64	Blaine Tech
	4/16/2012	73.32	26.18	---	---	47.14	Blaine Tech
	7/9/2012	73.32	32.92	---	---	40.40	Blaine Tech
	10/15/2012	73.32	32.97	32.95	0.02	40.37	Blaine Tech
	1/14/2013	73.32	32.98	32.93	0.05	40.38	Blaine Tech
	4/8/2013	73.32	29.63	26.46	3.17	46.27	Blaine Tech
	9/24/2013	73.32	31.10	27.20	3.90	45.40	Blaine Tech
	10/7/2013	73.32	32.09	27.06	5.03	45.33	Blaine Tech
	4/25/2014	73.32	28.48	28.40	0.08	44.91	Blaine Tech
	9/18/2014	73.32	30.71	27.72	2.99	45.05	Blaine Tech
	9/26/2014	73.32	30.87	27.75	3.12	44.99	Blaine Tech
	10/1/2014	73.32	30.52	27.65	2.87	45.14	Blaine Tech
	10/6/2014	73.32	30.50	27.66	2.84	45.13	Blaine Tech
	10/14/2014	73.32	30.63	27.62	3.01	45.14	Blaine Tech
	10/23/2014	73.32	30.80	27.70	3.10	45.05	Blaine Tech
	10/27/2014	73.32	30.70	27.76	2.94	45.02	Blaine Tech
	11/3/2014	73.32	30.81	27.62	3.19	45.11	Blaine Tech
	11/10/2014	73.32	30.94	27.75	3.19	44.98	Blaine Tech
	11/18/2014	73.32	30.91	27.65	3.26	45.07	Blaine Tech
	11/25/2014	73.32	30.95	27.65	3.30	45.06	Blaine Tech
	12/3/2014	73.32	32.56	27.83	4.73	44.61	Blaine Tech
	12/19/2014	73.32	31.72	27.93	3.79	44.69	Blaine Tech
	4/22/2015	73.32	32.25	27.98	4.27	44.55	Blaine Tech
	10/22/2015	73.32	31.36	29.38	1.98	43.57	Kinder Morgan
	3/16/2016	73.32	32.54	---	---	40.78	Kinder Morgan
	4/12/2016	73.32	32.48	---	---	40.84	Kinder Morgan
	6/29/2016	73.32	32.50	---	---	40.82	Blaine Tech
	8/22/2016	73.32	32.18	---	---	41.14	Blaine Tech
	10/3/2016	73.32	33.12	---	---	40.20	Blaine Tech
	3/23/2017	73.32	30.35	---	---	42.97	CH2M
GMW-O-21	12/28/2007	71.43	27.67	---	---	43.76	Geomatrix
	8/15/2008	73.94	NM	---	---	NC	Envent
	10/17/2008	71.43	26.00	---	---	45.43	Envent
	12/19/2008	71.43	24.82	---	---	46.61	Envent
	3/27/2009	71.43	26.41	---	---	45.02	Envent
	7/21/2009	71.43	24.88	---	---	46.55	Envent

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	10/19/2009	71.43	NM	---	---	NC	Blaine Tech
	11/9/2009	71.43	25.02	---	---	46.41	Kinder Morgan
	10/4/2010	71.43	25.40	---	---	46.03	Blaine Tech
	4/13/2011	71.43	23.72	---	---	47.71	Blaine Tech
	10/10/2011	71.43	24.65	---	---	46.78	Blaine Tech
	4/16/2012	71.43	NM	---	---	NC	Blaine Tech
	7/9/2012	71.43	NM	---	---	NC	Blaine Tech
	10/15/2012	71.43	32.50	---	---	38.93	Blaine Tech
	4/8/2013	71.43	NM	---	---	NC	Blaine Tech
	9/25/2013	71.43	29.25	---	---	42.18	Blaine Tech
	10/7/2013	71.43	NM	---	---	NC	Blaine Tech
	4/14/2014	71.43	28.65	28.61	0.04	42.81	Blaine Tech
	9/5/2014	71.43	29.61	28.78	0.83	42.48	Blaine Tech
	9/26/2014	71.43	29.85	28.77	1.08	42.44	Blaine Tech
	10/1/2014	71.43	29.79	28.64	1.15	42.56	Blaine Tech
	10/6/2014	71.43	29.40	28.72	0.68	42.57	Blaine Tech
	10/27/2014	71.43	29.75	28.93	0.82	42.34	Blaine Tech
	11/10/2014	71.43	29.98	28.95	1.03	42.27	Blaine Tech
	11/18/2014	71.43	30.05	28.92	1.13	42.28	Blaine Tech
	11/25/2014	71.43	29.73	28.85	0.88	42.40	Blaine Tech
	12/12/2014	71.43	30.61	29.02	1.59	42.09	Blaine Tech
	12/19/2014	71.43	30.62	29.04	1.58	42.07	Blaine Tech
	4/20/2015	71.43	30.15	28.99	1.16	42.21	Blaine Tech
	6/10/2015	71.43	31.00	30.70	0.30	40.67	Blaine Tech
	7/2/2015	71.43	32.30	29.88	2.42	41.07	Northstar
	7/7/2015	71.43	30.65	30.06	0.59	41.25	Northstar
	7/17/2015	71.43	30.40	30.10	0.30	41.27	Northstar
	7/29/2015	71.43	30.40	30.10	0.30	41.27	Northstar
	8/11/2015	71.43	31.00	30.70	0.30	40.67	Northstar
	10/19/2015	71.43	31.43	31.20	0.23	40.18	Blaine Tech
	3/14/2016	71.43	33.20	33.17	0.03	38.25	Blaine Tech
	4/11/2016	71.43	32.17	31.84	0.33	39.52	Blaine Tech
	6/29/2016	71.43	33.03	32.83	0.20	38.56	Blaine Tech
	8/22/2016	71.43	33.72	---	---	37.71	Blaine Tech
	10/3/2016	71.43	33.45	---	---	37.98	Blaine Tech
GMW-O-23	8/14/2007	73.63	23.33	---	---	50.30	Geomatrix
	8/21/2007	73.63	23.31	---	---	50.32	Geomatrix
	8/28/2007	73.63	23.00	---	---	50.63	Stantec
	9/11/2007	73.63	23.42	---	---	50.21	Geomatrix
	10/5/2007	73.63	27.79	---	---	45.84	Geomatrix
	11/2/2007	73.63	25.15	---	---	48.48	Geomatrix
	11/13/2007	73.63	23.90	---	---	49.73	Stantec
	12/28/2007	73.63	24.91	---	---	48.72	Geomatrix
	8/15/2008	73.63	26.28	---	---	47.35	Envent
	10/17/2008	73.63	27.16	---	---	46.47	Envent
	12/19/2008	73.63	27.60	---	---	46.03	Envent
	1/15/2009	73.63	27.54	---	---	46.09	Envent
	2/24/2009	73.63	26.19	---	---	47.44	Envent
	3/27/2009	73.63	23.74	---	---	49.89	Envent
	4/21/2009	73.63	27.30	---	---	46.33	Envent
	10/19/2009	73.63	NM	---	---	NC	Blaine Tech
	11/9/2009	73.63	27.50	---	---	46.13	Kinder Morgan
	6/22/2010	73.63	32.10	---	---	41.53	Blaine Tech
	10/4/2010	73.63	25.92	---	---	47.71	Blaine Tech
	1/10/2011	73.63	27.45	---	---	46.18	Blaine Tech
	4/11/2011	73.63	25.03	---	---	48.60	Blaine Tech
	7/11/2011	73.63	NM	---	---	NC	
	10/10/2011	73.63	25.25	---	---	48.38	Blaine Tech

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	1/9/2012	73.63	25.91	---	---	47.72	Blaine Tech
	4/16/2012	73.63	27.38	---	---	46.25	Blaine Tech
	7/9/2012	73.63	27.41	---	---	46.22	Blaine Tech
	10/15/2012	73.63	26.48	---	---	47.15	Blaine Tech
	1/14/2013	73.63	29.35	---	---	44.28	Blaine Tech
	4/8/2013	73.63	29.81	27.74	2.07	45.48	Blaine Tech
	9/23/2013	73.63	29.90	---	---	43.73	Blaine Tech
	10/7/2013	73.63	32.86	28.30	4.56	44.42	Blaine Tech
	4/25/2014	73.63	29.81	29.66	0.15	43.94	Blaine Tech
	9/5/2014	73.63	32.57	28.76	3.81	44.11	Blaine Tech
	9/11/2014	73.63	32.94	28.63	4.31	44.14	Blaine Tech
	9/18/2014	73.63	32.80	28.65	4.15	44.15	Blaine Tech
	9/26/2014	73.63	32.87	28.70	4.17	44.10	Blaine Tech
	10/1/2014	73.63	32.56	28.75	3.81	44.12	Blaine Tech
	10/6/2014	73.63	32.50	28.73	3.77	44.15	Blaine Tech
	10/14/2014	73.63	32.75	28.20	4.55	44.52	Blaine Tech
	10/23/2014	73.63	32.80	28.69	4.11	44.12	Blaine Tech
	10/27/2014	73.63	32.51	28.80	3.71	44.09	Blaine Tech
	11/3/2014	73.63	32.82	29.68	3.14	43.32	Blaine Tech
	11/10/2014	73.63	32.80	28.78	4.02	44.05	Blaine Tech
	11/18/2014	73.63	32.78	29.78	3.00	43.25	Blaine Tech
	11/25/2014	73.63	32.64	28.78	3.86	44.08	Blaine Tech
	12/3/2014	73.63	33.25	28.94	4.31	43.83	Blaine Tech
	12/12/2014	73.63	32.58	29.33	3.25	43.65	Blaine Tech
	12/19/2014	73.63	32.71	29.37	3.34	43.59	Blaine Tech
	3/17/2015	73.63	30.40	30.00	0.40	43.55	Kinder Morgan
	4/22/2015	73.63	33.08	30.36	2.72	42.73	Blaine Tech
	10/22/2015	73.63	32.82	30.46	2.36	42.70	Kinder Morgan
	3/16/2016	73.63	34.43	---	---	39.20	Kinder Morgan
	4/12/2016	73.63	32.59	---	---	41.04	Kinder Morgan
	6/29/2016	73.63	33.90	---	---	39.73	Blaine Tech
	8/22/2016	73.63	33.89	---	---	39.74	Blaine Tech
	10/3/2016	73.63	34.90	---	---	38.73	Blaine Tech
	3/23/2017	73.63	31.65	---	---	41.98	CH2M
GMW-SF-9	4/21/2009	73.00	24.19	---	---	48.81	Envent
	5/24/2010	73.00	28.31	---	---	44.69	Blaine Tech
	5/28/2010	73.00	28.37	---	---	44.63	Blaine Tech
	10/4/2010	73.00	25.28	---	---	47.72	Blaine Tech
	4/11/2011	73.00	23.90	---	---	49.10	Blaine Tech
	10/10/2011	73.00	24.70	---	---	48.30	Blaine Tech
	4/16/2012	73.00	26.99	---	---	46.01	Blaine Tech
	7/9/2012	73.00	NM	---	---	NC	Blaine Tech
	10/15/2012	73.05	34.21	---	---	38.84	Blaine Tech
	1/14/2013	73.05	34.32	---	---	38.73	Blaine Tech
	4/10/2013	73.05	27.37	---	---	45.68	Blaine Tech
	8/14/2014	73.05	29.35	28.37	0.98	44.48	Blaine Tech
	8/19/2014	73.05	28.46	28.44	0.02	44.61	Blaine Tech
	8/29/2014	73.05	29.32	28.31	1.01	44.54	Blaine Tech
	9/5/2014	73.05	29.33	28.29	1.04	44.55	Blaine Tech
	9/11/2014	73.05	29.49	28.47	1.02	44.38	Blaine Tech
	9/18/2014	73.05	28.95	28.91	0.04	44.13	Blaine Tech
	9/26/2014	73.05	28.93	28.59	0.34	44.39	Blaine Tech
	4/20/2015	73.05	29.01	---	---	44.04	Blaine Tech
	10/21/2015	73.05	29.69	---	---	43.36	Blaine Tech
	3/6/2017	73.05	28.88	---	---	44.17	CH2M
GMW-SF-10	4/21/2009	75.77	27.10	---	---	48.67	Envent
	10/4/2010	75.77	28.03	---	---	47.74	Blaine Tech
	4/11/2011	75.77	26.80	---	---	48.97	Blaine Tech

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	10/10/2011	75.77	27.60	---	---	48.17	Blaine Tech
	4/16/2012	75.77	28.81	---	---	46.96	Blaine Tech
	7/9/2012	75.77	NM	---	---	NC	Blaine Tech
	10/15/2012	75.77	29.88	---	---	45.89	Blaine Tech
	4/8/2013	75.77	DRY	---	---	NC	Blaine Tech
GWR-3	4/30/2007	74.93	27.97	---	---	46.96	Secor
	11/12/2007	74.93	27.90	---	---	47.03	Stantec
	10/17/2008	74.93	29.88	---	---	45.05	Envent
	12/17/2008	74.93	19.71	---	---	55.22	Envent
	1/15/2009	74.93	29.27	29.26	0.26	45.88	Envent
	3/27/2009	74.93	27.18	---	---	47.75	Envent
	4/21/2009	74.93	29.97	---	---	44.96	Envent
	7/21/2009	74.93	28.77	---	---	46.16	Envent
	10/19/2009	74.93	NM	---	---	NC	Blaine Tech
	10/4/2010	74.93	30.67	---	---	44.26	Blaine Tech
	4/11/2011	74.93	29.94	---	---	44.99	Blaine Tech
	10/10/2011	74.93	29.22	---	---	45.71	Blaine Tech
	4/16/2012	74.93	29.56	---	---	45.37	Blaine Tech
	7/9/2012	---	NM	---	---	NC	Blaine Tech
	10/15/2012	77.6	31.21	---	---	46.39	Blaine Tech
	4/8/2013	77.6	29.21	29.18	0.03	48.41	Blaine Tech
	10/7/2013	77.6	36.20	31.67	4.53	45.16	Blaine Tech
	4/14/2014	77.6	38.80	32.23	6.57	44.25	Blaine Tech
	5/5/2014	77.6	38.81	32.31	6.50	44.18	Nieto & Sons
	5/12/2014	77.6	36.34	32.77	3.57	44.22	Nieto & Sons
	5/27/2014	77.6	36.11	33.20	2.91	43.91	Nieto & Sons
	6/4/2014	77.6	34.57	31.61	2.96	45.49	Nieto & Sons
	8/8/2014	77.6	37.92	33.38	4.54	43.45	Blaine Tech
	8/13/2014	77.6	35.38	33.18	2.20	44.05	Blaine Tech
	8/19/2014	77.6	35.28	33.25	2.03	44.00	Blaine Tech
	8/29/2014	77.6	35.72	33.12	2.60	44.04	Blaine Tech
	9/5/2014	77.6	35.68	33.19	2.49	43.99	Blaine Tech
	9/11/2014	77.6	36.05	33.04	3.01	44.05	Blaine Tech
	9/18/2014	77.60	35.34	33.27	2.07	43.98	Blaine Tech
	9/26/2014	77.60	35.25	33.24	2.01	44.02	Blaine Tech
	10/1/2014	77.60	36.44	34.01	2.43	43.18	Blaine Tech
	10/6/2014	77.60	34.71	33.33	1.38	44.04	Blaine Tech
	10/14/2014	77.60	35.15	33.20	1.95	44.07	Blaine Tech
	10/23/2014	77.60	35.36	33.20	2.16	44.03	Blaine Tech
	10/27/2014	77.60	34.68	33.49	1.19	43.91	Blaine Tech
	11/3/2014	77.60	35.43	33.18	2.25	44.04	Blaine Tech
	11/10/2014	77.60	35.02	33.32	1.70	43.99	Blaine Tech
	11/18/2014	77.60	35.05	33.34	1.71	43.97	Blaine Tech
	11/25/2014	77.60	35.04	33.36	1.68	43.95	Blaine Tech
	12/3/2014	77.60	34.95	33.34	1.61	43.99	Blaine Tech
	12/12/2014	77.60	35.11	33.64	1.47	43.71	Blaine Tech
	12/19/2014	77.60	35.55	33.67	1.88	43.61	Blaine Tech
	4/20/2015	77.60	37.25	33.34	3.91	43.60	Blaine Tech
	7/24/2015	77.60	41.30	33.95	7.35	42.40	Northstar
	8/12/2015	77.60	37.03	34.42	2.61	42.74	Northstar
	10/20/2015	77.60	35.98	34.65	1.33	42.72	Blaine Tech
	3/16/2016	77.60	38.60	---	---	39.00	Kinder Morgan
	4/11/2016	77.60	36.90	---	---	40.70	Blaine Tech
	6/29/2016	77.60	37.77	---	---	39.83	Blaine Tech
	8/22/2016	77.60	38.24	---	---	39.36	Blaine Tech
	10/3/2016	77.60	39.20	39.15	0.05	38.44	Blaine Tech
	3/7/2017	77.60	35.62	---	---	41.98	CH2M

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
MW-18 (MID)	4/30/2007	75.67	29.77	---	---	45.90	Secor
	11/12/2007	75.67	30.23	---	---	45.44	Secor
	4/14/2008	75.67	30.45	---	---	45.22	Secor
	10/13/2008	75.67	31.15	---	---	44.52	Stantec
	4/20/2009	75.67	31.49	---	---	44.18	Blaine Tech
	10/19/2009	75.67	32.62	---	---	43.05	Blaine Tech
	5/24/2010	75.67	32.26	---	---	43.41	Blaine Tech
	5/28/2010	75.67	32.17	---	---	43.50	Blaine Tech
	10/4/2010	75.67	32.30	---	---	43.37	Blaine Tech
	4/11/2011	75.67	31.28	---	---	44.39	Blaine Tech
	10/10/2011	75.67	31.51	---	---	44.16	Blaine Tech
	4/16/2012	75.67	31.75	---	---	43.92	Blaine Tech
	7/9/2012	75.67	NM	---	---	NC	Blaine Tech
	10/15/2012	75.67	33.41	---	---	42.26	Blaine Tech
	4/8/2013	75.67	30.68	---	---	44.99	Blaine Tech
	10/7/2013	75.67	35.33	---	---	40.34	Blaine Tech
	4/14/2014	75.67	35.40	---	---	40.27	Blaine Tech
	10/27/2014	75.67	35.81	---	---	39.86	Blaine Tech
	4/20/2015	75.67	36.29	---	---	39.38	Blaine Tech
	10/19/2015	75.67	36.99	---	---	38.68	Blaine Tech
3/14/2016	75.67	40.70	---	---	34.97	Blaine Tech	
4/11/2016	75.67	38.89	---	---	36.78	Blaine Tech	
6/29/2016	75.67	39.94	---	---	35.73	Blaine Tech	
8/22/2016	75.67	40.14	---	---	35.53	Blaine Tech	
10/3/2016	75.67	40.93	---	---	34.74	Blaine Tech	
MW-O-1	4/30/2007	75.48	24.10	23.98	0.12	51.48	Secor
	8/14/2007	75.48	25.31	23.78	1.53	51.39	Geomatrix
	8/21/2007	75.48	23.84	23.58	0.26	51.85	Geomatrix
	8/28/2007	75.48	23.07	23.06	0.01	52.42	Stantec
	9/11/2007	75.48	23.86	23.48	0.38	51.92	Geomatrix
	10/5/2007	75.48	24.67	---	---	50.81	Geomatrix
	11/2/2007	75.48	24.25	---	---	51.23	Geomatrix
	11/12/2007	75.48	24.27	24.25	0.02	51.23	Stantec
	12/28/2007	75.48	25.54	25.51	0.03	49.96	Geomatrix
	8/15/2008	75.48	NM	---	---	NC	Envent
	8/19/2008	75.48	25.18	25.13	0.05	50.34	Envent
	10/17/2008	75.48	25.30	---	---	50.18	Envent
	12/19/2008	75.48	26.31	---	---	49.17	Envent
	1/15/2009	75.48	25.84	---	---	49.64	Envent
	4/21/2009	75.48	25.41	---	---	50.07	Envent
	10/19/2009	75.48	26.30	---	---	49.18	Blaine Tech
	10/4/2010	75.48	26.90	---	---	48.58	Blaine Tech
	4/11/2011	75.48	25.59	---	---	49.89	Blaine Tech
	10/10/2011	75.48	26.52	---	---	48.96	Blaine Tech
	4/16/2012	75.48	27.25	---	---	48.23	Blaine Tech
	7/9/2012	75.48	NM	---	---	NC	Blaine Tech
	10/15/2012	75.48	28.94	---	---	46.54	Blaine Tech
	4/8/2013	75.48	28.81	---	---	46.67	Blaine Tech
	10/7/2013	75.48	29.21	---	---	46.27	Blaine Tech
	4/14/2014	75.48	29.82	---	---	45.66	Blaine Tech
	10/27/2014	75.48	29.92	---	---	45.56	Blaine Tech
4/20/2015	75.48	30.39	---	---	45.09	Blaine Tech	
10/27/2015	75.48	27.67	---	---	47.81	Blaine Tech	
3/14/2016	75.48	DRY	---	---	NC	Blaine Tech	
4/11/2016	75.48	DRY	---	---	NC	Blaine Tech	
6/29/2016	75.48	DRY	---	---	NC	Blaine Tech	
8/22/2016	75.48	DRY	---	---	NC	Blaine Tech	
10/3/2016	75.48	DRY	---	---	NC	Blaine Tech	

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By	
MW-O-2	4/30/2007	74.31	22.53	---	---	51.78	Secor	
	11/12/2007	71.90	23.10	---	---	48.80	Stantec	
	8/15/2008	71.90	NM	---	---	NC	Envent	
	10/17/2008	71.90	24.85	---	---	47.05	Envent	
	12/19/2008	71.90	25.51	---	---	46.39	Envent	
	3/27/2009	71.90	25.22	---	---	46.68	Envent	
	4/21/2009	71.90	NM	---	---	NC	Envent	
	7/21/2009	71.90	23.63	---	---	48.27	Envent	
	10/19/2009	71.90	NM	---	---	NC	Blaine Tech	
	11/9/2009	71.90	25.39	---	---	46.51	Kinder Morgan	
	10/4/2010	71.90	26.05	---	---	45.85	Blaine Tech	
	4/13/2011	71.9	23.31	---	---	48.59	Blaine Tech	
	10/10/2011	71.9	27.53	---	---	44.37	Blaine Tech	
	1/9/2012	71.9	28.13	---	---	43.77	Blaine Tech	
	4/16/2012	71.9	NM	---	---	NC	Blaine Tech	
	7/9/2012	71.9	26.53	---	---	45.37	Blaine Tech	
	10/15/2012	71.9	26.89	---	---	45.01	Blaine Tech	
	1/14/2013	71.9	26.93	---	---	44.97	Blaine Tech	
	4/8/2013	71.9	NM	---	---	NC	Blaine Tech	
	6/6/2013	71.9	28.99	---	---	42.91	Blaine Tech	
	10/7/2013	71.9	29.06	---	---	42.84	Blaine Tech	
	4/14/2014	71.9	29.36	---	---	42.54	Blaine Tech	
	10/27/2014	71.9	29.81	29.65	29.65	0.16	42.22	Blaine Tech
	4/20/2015	71.9	30.94	30.94	29.34	1.60	42.24	Blaine Tech
	5/21/2015	71.9	32.50	32.50	27.31	5.19	43.55	Northstar
	5/29/2015	71.9	31.52	30.20	30.20	1.32	41.44	Northstar
	6/5/2015	71.9	31.45	30.57	30.57	0.88	41.15	Northstar
	6/12/2015	71.9	31.05	30.60	30.60	0.45	41.21	Northstar
6/19/2015	71.9	31.10	30.90	30.90	0.20	40.96	Northstar	
6/26/2015	71.9	31.66	31.37	31.37	0.29	40.47	Northstar	
10/19/2015	71.9	32.39	30.53	30.53	1.86	41.00	Blaine Tech	
3/14/2016	71.9	35.49	34.86	34.86	0.63	36.91	Blaine Tech	
4/11/2016	71.9	33.03	32.54	32.54	0.49	39.26	Blaine Tech	
6/30/2016	71.9	34.20	---	---	---	37.70	Kinder Morgan	
8/22/2016	71.9	33.93	---	---	---	37.97	Kinder Morgan	
10/3/2016	71.9	34.30	34.22	34.22	0.08	37.66	Blaine Tech	
MW-SF-1	3/12/2007	78.93	28.71	---	---	50.22	Secor	
	4/30/2007	78.93	28.44	---	---	50.49	Secor	
	8/28/2007	78.93	27.94	---	---	50.99	Stantec	
	11/12/2007	78.93	28.76	---	---	50.17	Stantec	
	2/19/2008	78.93	29.50	---	---	49.43	Stantec	
	4/14/2008	78.93	29.16	---	---	49.77	Stantec	
	8/11/2008	78.93	29.75	---	---	49.18	Stantec	
	10/13/2008	78.93	29.86	---	---	49.07	Stantec	
	2/23/2009	78.93	30.00	---	---	48.93	Blaine Tech	
	4/20/2009	78.93	29.97	---	---	48.96	Blaine Tech	
	7/20/2009	78.93	30.98	---	---	47.95	Blaine Tech	
	7/22/2009	78.93	30.98	---	---	47.95	Blaine Tech	
	10/19/2009	78.93	31.11	---	---	47.82	Blaine Tech	
	3/15/2010	78.93	31.74	---	---	47.19	Blaine Tech	
	5/24/2010	78.93	30.79	---	---	48.14	Blaine Tech	
	5/28/2010	78.93	30.57	---	---	48.36	Blaine Tech	
	6/22/2010	78.93	30.84	---	---	48.09	Blaine Tech	
	7/12/2010	78.93	30.51	---	---	48.42	Blaine Tech	
	10/4/2010	78.93	30.88	---	---	48.05	Blaine Tech	
1/10/2011	78.93	32.51	---	---	46.42	Blaine Tech		
4/11/2011	78.93	29.87	---	---	49.06	Blaine Tech		
7/11/2011	78.93	29.84	---	---	49.09	Blaine Tech		

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	10/10/2011	78.93	29.60	---	---	49.33	Blaine Tech
	1/9/2012	78.93	31.25	---	---	47.68	Blaine Tech
	4/16/2012	78.93	32.59	---	---	46.34	Blaine Tech
	7/9/2012	78.93	31.24	---	---	47.69	Blaine Tech
	10/15/2012	78.93	32.23	---	---	46.70	Blaine Tech
	1/14/2013	78.93	33.88	---	---	45.05	Blaine Tech
	4/8/2013	78.93	33.38	---	---	45.55	Blaine Tech
	10/7/2013	78.93	37.14	31.72	5.42	46.13	Blaine Tech
	4/14/2014	78.93	37.40	32.69	4.71	45.30	Blaine Tech
	5/6/2014	78.93	39.99	32.82	7.17	44.68	Nieto & Sons
	5/12/2014	78.93	37.31	33.55	3.76	44.63	Nieto & Sons
	5/20/2014	78.93	37.10	34.60	2.50	43.83	Nieto & Sons
	5/27/2014	78.93	36.62	34.30	2.32	44.17	Nieto & Sons
	6/4/2014	78.93	35.98	35.27	0.71	43.52	Nieto & Sons
	6/10/2014	78.93	36.91	34.48	2.43	43.96	Nieto & Sons
	7/3/2014	78.93	36.72	34.71	2.01	43.82	Nieto & Sons
	7/8/2014	78.93	36.60	34.45	2.15	44.05	Blaine Tech
	7/18/2014	78.93	35.18	34.77	0.41	44.08	Blaine Tech
	7/24/2014	78.93	35.30	34.62	0.68	44.17	Blaine Tech
	8/1/2014	78.93	34.74	34.44	0.30	44.43	Blaine Tech
	8/14/2014	78.93	34.75	34.41	0.34	44.45	Blaine Tech
	8/19/2014	78.93	34.66	34.37	0.29	44.50	Blaine Tech
	8/29/2014	78.93	35.65	35.38	0.27	43.50	Blaine Tech
	9/18/2014	78.93	34.85	34.49	0.36	44.37	Blaine Tech
	9/26/2014	78.93	34.78	34.45	0.33	44.41	Blaine Tech
	10/1/2014	78.93	34.77	34.41	0.36	44.45	Blaine Tech
	10/6/2014	78.93	34.78	34.42	0.36	44.44	Blaine Tech
	10/14/2014	78.93	34.65	34.41	0.24	44.47	Blaine Tech
	10/23/2014	78.93	34.84	34.45	0.39	44.40	Blaine Tech
	10/27/2014	78.93	34.80	34.43	0.37	44.43	Blaine Tech
	11/10/2014	78.93	34.91	34.51	0.40	44.34	Blaine Tech
	11/18/2014	78.93	34.80	34.43	0.37	44.43	Blaine Tech
	11/25/2014	78.93	34.53	34.51	0.02	44.42	Blaine Tech
	12/12/2014	78.93	35.18	34.78	0.40	44.07	Blaine Tech
	12/19/2014	78.93	35.34	34.88	0.46	43.96	Blaine Tech
	4/20/2015	78.93	34.89	34.48	0.41	44.37	Blaine Tech
	5/19/2015	78.93	38.45	34.55	3.90	43.60	Northstar
	5/29/2015	78.93	36.36	35.22	1.14	43.48	Northstar
	6/5/2015	78.93	36.50	35.43	1.07	43.29	Northstar
	6/12/2015	78.93	35.80	35.41	0.39	43.44	Northstar
	6/19/2015	78.93	36.02	35.42	0.60	43.39	Northstar
	6/26/2015	78.93	36.60	36.45	0.15	42.45	Northstar
	10/19/2015	78.93	36.35	35.53	0.82	43.24	Blaine Tech
	11/17/2015	78.93	35.65	---	---	43.28	Kinder Morgan
	3/14/2016	78.93	40.40	---	---	38.53	Blaine Tech
	4/11/2016	78.93	37.96	---	---	40.97	Blaine Tech
	6/29/2016	78.93	39.05	---	---	39.88	Blaine Tech
	8/22/2016	78.93	39.04	---	---	39.87	Blaine Tech
	10/3/2016	78.93	39.20	---	---	39.73	Blaine Tech
MW-SF-2	4/30/2007	78.45	28.35	28.34	0.01	50.11	Secor
	11/12/2007	78.45	29.18	28.71	0.47	49.65	Stantec
	8/12/2008	78.45	31.11	---	---	47.34	Envent
	10/17/2008	78.45	31.55	31.50	0.05	46.94	Envent
	12/18/2008	78.53	32.75	32.55	0.20	45.94	Envent
	1/15/2009	78.53	30.84	30.57	0.27	47.91	Envent
	3/24/2009	78.53	28.85	---	---	49.68	Envent
	4/21/2009	78.53	29.98	---	---	48.55	Envent
	7/21/2009	78.53	29.85	---	---	48.68	Envent

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	10/19/2009	78.53	NM	---	---	NC	Blaine Tech
	12/9/2009	78.53	31.45	---	---	47.08	Kinder Morgan
	10/4/2010	78.53	30.96	30.75	0.21	47.74	Blaine Tech
	1/10/2011	78.53	32.62	32.50	0.12	46.01	Blaine Tech
	4/11/2011	78.53	29.83	---	---	48.70	Blaine Tech
	7/11/2011	78.53	NM	---	---	NC	
	10/10/2011	78.53	29.82	---	---	48.71	Blaine Tech
	1/9/2012	78.53	30.52	---	---	48.01	Blaine Tech
	4/16/2012	78.53	31.28	---	---	47.25	Blaine Tech
	7/9/2012	78.53	33.18	---	---	45.35	Blaine Tech
	10/15/2012	78.53	32.11	---	---	46.42	Blaine Tech
	1/14/2013	78.53	33.59	---	---	44.94	Blaine Tech
	4/8/2013	78.53	33.32	---	---	45.21	Blaine Tech
	10/7/2013	78.53	34.58	33.08	1.50	45.15	Blaine Tech
	4/14/2014	78.53	37.50	33.27	4.23	44.41	Blaine Tech
	5/6/2014	78.53	37.71	33.24	4.47	44.40	Nieto & Sons
	5/12/2014	78.53	37.53	33.34	4.19	44.35	Nieto & Sons
	5/20/2014	78.53	37.62	33.51	4.11	44.20	Nieto & Sons
	5/27/2014	78.53	38.24	33.77	4.47	43.87	Nieto & Sons
	6/4/2014	78.53	34.63	---	---	43.90	Nieto & Sons
	6/10/2014	78.53	38.49	34.00	4.49	43.63	Nieto & Sons
	8/8/2014	78.53	36.23	33.82	2.41	44.23	Blaine Tech
	8/13/2014	78.53	36.75	33.59	3.16	44.31	Blaine Tech
	8/19/2014	78.53	36.90	33.60	3.30	44.27	Blaine Tech
	8/29/2014	78.53	37.11	33.53	3.58	44.28	Blaine Tech
	9/5/2014	78.53	37.09	33.51	3.58	44.30	Blaine Tech
	9/11/2014	78.53	37.12	33.51	3.61	44.30	Blaine Tech
	9/18/2014	78.53	36.89	33.60	3.29	44.27	Blaine Tech
	9/26/2014	78.53	37.28	33.54	3.74	44.24	Blaine Tech
	10/1/2014	78.53	37.18	33.56	3.62	44.25	Blaine Tech
	10/6/2014	78.53	37.16	33.59	3.57	44.23	Blaine Tech
	10/14/2014	78.53	37.15	33.64	3.51	44.19	Blaine Tech
	10/23/2014	78.53	37.24	33.61	3.63	44.19	Blaine Tech
	10/27/2014	78.53	37.04	33.54	3.50	44.29	Blaine Tech
	11/3/2014	78.53	37.14	33.55	3.59	44.26	Blaine Tech
	11/10/2014	78.53	37.33	33.56	3.77	44.22	Blaine Tech
	11/18/2014	78.53	37.21	33.64	3.57	44.18	Blaine Tech
	11/25/2014	78.53	37.40	33.69	3.71	44.10	Blaine Tech
	12/3/2014	78.53	37.16	33.60	3.56	44.22	Blaine Tech
	12/12/2014	78.53	38.05	33.91	4.14	43.79	Blaine Tech
	12/19/2014	78.53	38.40	33.95	4.45	43.69	Blaine Tech
	4/20/2015	78.53	36.15	34.73	1.42	43.52	Blaine Tech
	6/25/2015	78.53	38.95	35.57	3.38	42.28	Blaine Tech
	10/21/2015	78.53	36.32	36.13	0.19	42.36	Kinder Morgan
	3/16/2016	78.53	39.27	---	---	39.26	Kinder Morgan
	4/11/2016	78.53	37.47	---	---	41.06	Blaine Tech
	6/29/2016	78.53	38.08	---	---	40.45	Blaine Tech
	8/22/2016	78.53	38.83	---	---	39.70	Blaine Tech
	10/3/2016	78.53	39.60	---	---	38.93	Blaine Tech
	3/10/2017	78.53	36.47	---	---	42.06	CH2M
MW-SF-3	4/30/2007	77.62	27.72	27.45	0.27	50.12	Secor
	11/12/2007	77.62	29.34	28.28	1.06	49.13	Stantec
	8/12/2008	77.62	30.30	29.05	1.25	48.32	Envent
	10/17/2008	77.62	29.45	---	---	48.17	Envent
	12/18/2008	78.12	31.08	30.82	0.26	47.25	Envent
	1/15/2009	78.12	29.96	29.94	0.02	48.18	Envent
	3/20/2009	78.12	31.10	---	---	47.02	Envent
	3/24/2009	78.12	27.82	---	---	50.30	Envent

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	4/21/2009	78.12	29.51	29.50	0.01	48.62	Envent
	7/21/2009	78.12	30.07	---	---	48.05	Envent
	10/19/2009	78.12	NM	---	---	NC	Blaine Tech
	11/6/2009	78.12	30.37	30.35	0.02	47.77	Kinder Morgan
	12/9/2009	78.12	30.53	---	---	47.59	Kinder Morgan
	9/3/2010	78.12	30.97	30.42	0.55	47.59	Kinder Morgan
	10/4/2010	78.12	30.88	30.30	0.58	47.70	Blaine Tech
	4/12/2011	78.12	29.44	---	---	48.68	Blaine Tech
	10/10/2011	78.12	30.75	---	---	47.37	Blaine Tech
	4/16/2012	78.12	NM	---	---	NC	Blaine Tech
	7/9/2012	78.12	NM	---	---	NC	Blaine Tech
	10/15/2012	78.12	32.47	---	---	45.65	Blaine Tech
	5/24/2013	78.12	33.35	32.51	0.84	45.44	Blaine Tech
	9/25/2013	78.12	34.40	---	---	43.72	Blaine Tech
	10/7/2013	78.12	NM	---	---	NC	Blaine Tech
	11/14/2013	78.12	33.26	---	---	44.86	Blaine Tech
	4/18/2014	78.12	33.72	33.62	0.10	44.48	Blaine Tech
	8/8/2014	78.12	34.07	33.71	0.36	44.34	Blaine Tech
	10/14/2014	78.12	34.55	33.92	0.63	44.07	Blaine Tech
	10/23/2014	78.12	34.57	33.94	0.63	44.05	Blaine Tech
	10/27/2014	78.12	34.49	33.85	0.64	44.14	Blaine Tech
	11/10/2014	78.12	34.65	33.94	0.71	44.04	Blaine Tech
	11/18/2014	78.12	34.62	33.88	0.74	44.09	Blaine Tech
	11/25/2014	78.12	34.22	33.94	0.28	44.12	Blaine Tech
	12/12/2014	78.12	34.89	34.38	0.51	43.64	Blaine Tech
	12/19/2014	78.12	35.04	34.43	0.61	43.57	Blaine Tech
	4/20/2015	78.12	34.52	---	---	43.60	Blaine Tech
	10/21/2015	78.12	35.18	---	---	42.94	Kinder Morgan
	3/14/2016	78.12	39.43	39.40	0.03	38.71	Blaine Tech
	4/11/2016	78.12	37.17	---	---	40.95	Blaine Tech
	6/30/2016	78.12	38.28	---	---	39.84	Kinder Morgan
	8/22/2016	78.12	38.33	---	---	39.79	Kinder Morgan
	10/3/2016	78.12	39.40	---	---	38.72	Kinder Morgan
	3/8/2017	78.12	35.75	---	---	42.37	CH2M
MW-SF-4	3/12/2007	79.38	30.01	29.41	0.60	49.85	Secor
	4/30/2007	79.38	29.96	29.11	0.85	50.10	Secor
	8/14/2007	79.38	30.34	28.38	1.96	50.60	Geomatrix
	8/28/2007	79.38	29.95	28.30	1.65	50.74	Stantec
	9/11/2007	79.38	29.98	28.43	1.55	50.63	Geomatrix
	10/5/2007	79.38	30.68	28.85	1.83	50.15	Geomatrix
	10/12/2007	79.38	30.27	29.96	0.31	49.36	Geomatrix
	10/19/2007	79.38	30.28	---	---	49.10	Geomatrix
	10/26/2007	79.38	30.52	---	---	48.86	Geomatrix
	11/2/2007	79.38	30.68	---	---	48.70	Geomatrix
	11/12/2007	79.38	29.70	29.69	0.01	49.69	Stantec
	12/21/2007	79.38	30.69	---	---	48.69	Geomatrix
	2/19/2008	79.38	30.22	---	---	49.16	Stantec
	3/21/2008	79.38	30.07	---	---	49.31	Envent
	4/14/2008	79.38	29.95	---	---	49.43	Stantec
	8/8/2008	79.38	30.51	---	---	48.87	Envent
	8/11/2008	79.38	30.57	---	---	48.81	Stantec
	10/16/2008	79.38	30.77	---	---	48.61	Envent
	1/15/2009	79.38	31.14	---	---	48.24	Envent
	2/20/2009	79.38	30.84	---	---	48.54	Envent
	2/23/2009	79.38	30.96	---	---	48.42	Blaine Tech
	4/20/2009	79.38	30.02	29.94	0.08	49.42	Blaine Tech
	4/28/2009	79.38	30.78	---	---	48.60	Envent
	7/17/2009	79.38	31.85	---	---	47.53	Envent

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	7/20/2009	79.38	31.65	31.61	0.04	47.76	Blaine Tech
	7/22/2009	79.38	31.65	31.61	0.04	47.76	Blaine Tech
	10/19/2009	79.38	31.93	31.90	0.03	47.47	Blaine Tech
	3/15/2010	79.38	31.95	31.91	0.04	47.46	Blaine Tech
	5/24/2010	79.38	31.60	---	---	47.78	Blaine Tech
	5/28/2010	79.38	26.40	---	---	52.98	Blaine Tech
	6/22/2010	79.38	31.63	---	---	47.75	Blaine Tech
	7/12/2010	79.38	31.37	---	---	48.01	Blaine Tech
	10/4/2010	79.38	31.81	---	---	47.57	Blaine Tech
	1/10/2011	79.38	32.99	---	---	46.39	Blaine Tech
	4/11/2011	79.38	30.85	---	---	48.53	Blaine Tech
	7/11/2011	79.38	30.35	---	---	49.03	Blaine Tech
	10/10/2011	79.38	NM	---	---	NC	Blaine Tech
	1/9/2012	79.38	32.07	---	---	47.31	Blaine Tech
	4/16/2012	79.38	33.35	---	---	46.03	Blaine Tech
	7/9/2012	79.38	32.11	---	---	47.27	Blaine Tech
	10/15/2012	79.38	34.04	---	---	45.34	Blaine Tech
	1/14/2013	79.38	34.52	---	---	44.86	Blaine Tech
	4/8/2013	79.38	DRY	---	---	NC	Blaine Tech
	10/7/2013	79.38	DRY	---	---	NC	Blaine Tech
	4/25/2014	79.38	40.03	34.23	5.80	43.96	Blaine Tech
	5/6/2014	79.38	39.78	33.91	5.87	44.27	Nieto & Sons
	5/12/2014	79.38	37.02	34.64	2.38	44.25	Nieto & Sons
	5/20/2014	79.38	36.60	35.60	1.00	43.58	Nieto & Sons
	5/27/2014	79.38	36.12	35.45	0.67	43.79	Nieto & Sons
	6/4/2014	79.38	36.54	35.91	0.63	43.34	Nieto & Sons
	6/10/2014	79.38	37.02	35.38	1.64	43.66	Nieto & Sons
	7/3/2014	79.38	36.98	35.63	1.35	43.47	Nieto & Sons
	7/8/2014	79.38	36.78	35.34	1.44	43.74	Blaine Tech
	7/18/2014	79.38	35.88	35.55	0.33	43.76	Blaine Tech
	7/24/2014	79.38	35.98	35.42	0.56	43.85	Blaine Tech
	8/1/2014	79.38	35.57	35.30	0.27	44.02	Blaine Tech
	8/14/2014	79.38	35.42	35.23	0.19	44.11	Blaine Tech
	8/19/2014	79.38	35.36	35.21	0.15	44.14	Blaine Tech
	8/29/2014	79.38	35.32	35.20	0.12	44.16	Blaine Tech
	9/18/2014	79.38	35.55	35.30	0.25	44.03	Blaine Tech
	9/26/2014	79.38	35.56	35.30	0.26	44.03	Blaine Tech
	10/1/2014	79.38	35.56	35.24	0.32	44.07	Blaine Tech
	10/6/2014	79.38	35.48	35.22	0.26	44.11	Blaine Tech
	10/14/2014	79.38	35.33	35.20	0.13	44.15	Blaine Tech
	10/23/2014	79.38	35.51	35.22	0.29	44.10	Blaine Tech
	10/27/2014	79.38	35.54	35.25	0.29	44.07	Blaine Tech
	11/18/2014	79.38	35.56	35.25	0.31	44.07	Blaine Tech
	11/25/2014	79.38	35.66	35.32	0.34	43.99	Blaine Tech
	12/12/2014	79.38	35.81	35.58	0.23	43.75	Blaine Tech
	12/19/2014	79.38	35.75	35.62	0.13	43.73	Blaine Tech
	4/20/2015	79.38	37.78	35.29	2.49	43.58	Blaine Tech
	5/19/2015	79.38	39.22	35.28	3.94	43.29	Northstar
	5/29/2015	79.38	37.10	35.80	1.30	43.31	Northstar
	6/5/2015	79.38	36.85	36.15	0.70	43.09	Northstar
	6/12/2015	79.38	36.55	36.15	0.40	43.15	Northstar
	6/19/2015	79.38	36.68	36.42	0.26	42.91	Northstar
	6/26/2015	79.38	37.23	36.96	0.27	42.36	Northstar
	10/19/2015	79.38	38.12	36.25	1.87	42.75	Blaine Tech
	11/17/2015	79.38	37.83	35.98	1.85	43.02	Kinder Morgan
	3/14/2016	79.38	40.80	---	---	38.58	Kinder Morgan
	4/11/2016	79.38	37.76	---	---	41.62	Blaine Tech
	6/29/2016	79.38	39.54	---	---	39.84	Blaine Tech

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	8/22/2016	79.38	39.76	---	---	39.62	Blaine Tech
	10/3/2016	79.38	41.05	---	---	38.33	Blaine Tech
MW-SF-5	4/30/2007	79.74	29.54	---	---	50.20	Secor
	8/21/2007	79.74	28.36	---	---	51.38	Geomatrix
	8/28/2007	79.74	28.84	---	---	50.90	Stantec
	10/5/2007	79.74	29.50	---	---	50.24	Geomatrix
	11/2/2007	79.74	31.50	---	---	48.24	Geomatrix
	11/12/2007	79.74	29.93	---	---	49.81	Stantec
	12/21/2007	79.74	31.00	---	---	48.74	Geomatrix
	4/14/2008	79.74	30.20	---	---	49.54	Stantec
	8/11/2008	79.74	30.85	---	---	48.89	Stantec
	10/13/2008	79.74	30.93	---	---	48.81	Stantec
	4/20/2009	79.74	30.99	---	---	48.75	Blaine Tech
	10/19/2009	79.74	NM	---	---	NC	Blaine Tech
	5/24/2010	79.74	31.55	---	---	48.19	Blaine Tech
	5/28/2010	79.74	31.44	---	---	48.30	Blaine Tech
	6/22/2010	79.74	31.57	---	---	48.17	Blaine Tech
	10/4/2010	79.74	31.39	---	---	48.35	Blaine Tech
	1/10/2011	79.74	33.80	---	---	45.94	Blaine Tech
	4/11/2011	79.74	31.03	---	---	48.71	Blaine Tech
	7/11/2011	79.74	NM	---	---	NC	
	10/10/2011	79.74	31.28	---	---	48.46	Blaine Tech
	1/9/2012	79.74	32.12	---	---	47.62	Blaine Tech
	4/16/2012	79.74	33.30	---	---	46.44	Blaine Tech
	7/9/2012	79.74	34.45	---	---	45.29	Blaine Tech
	10/15/2012	79.74	33.28	---	---	46.46	Blaine Tech
	1/14/2013	79.74	33.37	---	---	46.37	Blaine Tech
	4/8/2013	79.74	34.28	---	---	45.46	Blaine Tech
	10/7/2013	79.74	34.58	---	---	45.16	Blaine Tech
	4/14/2014	79.74	35.33	---	---	44.41	Blaine Tech
	10/27/2014	79.74	35.48	---	---	44.26	Blaine Tech
	4/20/2015	79.74	36.05	---	---	43.69	Blaine Tech
	10/19/2015	79.74	36.82	---	---	42.92	Blaine Tech
	3/14/2016	79.74	DRY	---	---	NC	Blaine Tech
	4/11/2016	79.74	DRY	---	---	NC	Blaine Tech
	6/29/2016	79.74	DRY	---	---	NC	Blaine Tech
	8/22/2016	79.74	DRY	---	---	NC	Blaine Tech
	10/3/2016	79.74	DRY	---	---	NC	Blaine Tech
MW-SF-6	4/30/2007	79.96	27.44	27.20	0.24	52.71	Secor
	11/12/2007	79.96	27.14	---	---	52.82	Stantec
	8/12/2008	79.96	29.82	---	---	50.14	Envent
	10/17/2008	79.96	29.75	---	---	50.21	Envent
	12/18/2008	76.8	30.73	---	---	46.07	Envent
	1/15/2009	76.8	31.35	---	---	45.45	Envent
	3/24/2009	76.80	30.50	---	---	46.30	Envent
	4/21/2009	76.80	28.45	---	---	48.35	Envent
	7/21/2009	76.80	27.22	---	---	49.58	Envent
	10/19/2009	76.80	NM	---	---	NC	Blaine Tech
	11/6/2009	76.80	29.10	---	---	47.70	Blaine Tech
	12/9/2009	76.80	31.35	---	---	45.45	Kinder Morgan
	10/4/2010	76.80	29.09	---	---	47.71	Blaine Tech
	1/10/2011	76.80	30.87	---	---	45.93	Blaine Tech
	4/11/2011	76.80	28.16	---	---	48.64	Blaine Tech
	7/11/2011	76.80	NM	---	---	NC	
	10/10/2011	76.80	28.21	---	---	48.59	Blaine Tech
	1/9/2012	76.80	29.03	---	---	47.77	Blaine Tech
	4/16/2012	76.80	29.66	---	---	47.14	Blaine Tech
	7/9/2012	76.80	31.46	---	---	45.34	Blaine Tech

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	10/15/2012	76.80	31.44	---	---	45.36	Blaine Tech
	1/14/2013	76.80	31.53	---	---	45.27	Blaine Tech
	4/8/2013	76.80	30.21	28.81	1.40	47.71	Blaine Tech
	10/7/2013	76.80	NM	---	---	NC	Blaine Tech
	11/14/2013	76.80	31.90	---	---	44.90	Blaine Tech
	4/18/2014	76.80	33.30	32.15	1.15	44.42	Blaine Tech
	8/8/2014	76.8	34.50	33.31	1.19	43.25	Blaine Tech
	8/13/2014	76.8	32.95	32.54	0.41	44.18	Blaine Tech
	8/19/2014	76.8	32.87	32.62	0.25	44.13	Blaine Tech
	8/29/2014	76.8	32.79	32.56	0.23	44.19	Blaine Tech
	9/5/2014	76.8	32.81	32.59	0.22	44.17	Blaine Tech
	9/18/2014	76.8	32.95	32.65	0.30	44.09	Blaine Tech
	9/26/2014	76.8	32.94	32.61	0.33	44.12	Blaine Tech
	10/1/2014	76.8	32.91	32.60	0.31	44.14	Blaine Tech
	10/6/2014	76.8	32.90	32.61	0.29	44.13	Blaine Tech
	10/14/2014	76.8	33.72	33.60	0.12	43.18	Blaine Tech
	10/23/2014	76.8	34.57	33.94	0.63	42.73	Blaine Tech
	10/27/2014	76.8	32.92	32.58	0.34	44.15	Blaine Tech
	11/18/2014	76.8	32.99	32.62	0.37	44.11	Blaine Tech
	11/25/2014	76.8	32.66	32.58	0.08	44.20	Blaine Tech
	12/12/2014	76.8	33.45	33.07	0.38	43.65	Blaine Tech
	12/19/2014	76.8	33.60	33.15	0.45	43.56	Blaine Tech
	4/20/2015	76.8	33.23	33.11	0.12	43.67	Blaine Tech
	10/21/2015	76.8	34.28	---	---	42.52	Kinder Morgan
	3/14/2016	76.8	38.10	38.08	0.02	38.72	Blaine Tech
	4/11/2016	76.8	35.83	---	---	40.97	Blaine Tech
	6/29/2016	76.8	36.89	---	---	39.91	Blaine Tech
	8/22/2016	76.8	37.11	---	---	39.69	Blaine Tech
	10/3/2016	76.8	38.45	---	---	38.35	Blaine Tech
MW-SF-9	4/30/2007	74.1	22.66	---	---	51.44	Secor
	8/14/2007	74.1	28.73	28.61	0.12	45.47	Geomatrix
	8/21/2007	74.1	26.55	---	---	47.55	Geomatrix
	8/28/2007	74.1	20.55	---	---	53.55	Stantec
	9/11/2007	74.1	19.40	---	---	54.70	Geomatrix
	10/5/2007	74.1	26.84	---	---	47.26	Geomatrix
	11/2/2007	74.1	22.76	---	---	51.34	Geomatrix
	11/12/2007	74.1	22.96	---	---	51.14	Stantec
	12/21/2007	74.1	24.05	---	---	50.05	Geomatrix
	4/14/2008	74.1	24.23	---	---	49.87	Stantec
	10/13/2008	74.1	24.83	---	---	49.27	Stantec
	4/20/2009	74.10	25.27	---	---	48.83	Blaine Tech
	10/19/2009	74.10	26.45	---	---	47.65	Blaine Tech
	5/24/2010	74.10	25.80	---	---	48.30	Blaine Tech
	5/28/2010	74.10	25.66	---	---	48.44	Blaine Tech
	6/22/2010	74.10	25.84	---	---	48.26	Blaine Tech
	10/4/2010	74.10	26.10	---	---	48.00	Blaine Tech
	1/10/2011	74.10	27.41	---	---	46.69	Blaine Tech
	4/11/2011	74.10	24.16	---	---	49.94	Blaine Tech
	7/11/2011	74.10	NM	---	---	NC	
	10/10/2011	74.10	25.02	---	---	49.08	Blaine Tech
	1/9/2012	74.10	25.98	---	---	48.12	Blaine Tech
	4/16/2012	74.10	25.92	---	---	48.18	Blaine Tech
	7/9/2012	74.10	26.44	---	---	47.66	Blaine Tech
	10/15/2012	74.10	NM	---	---	NC	Blaine Tech
	4/8/2013	74.10	DRY	---	---	NC	Blaine Tech
	6/6/2013	74.10	28.53	---	---	45.57	Blaine Tech
	10/7/2013	74.10	28.95	---	---	45.15	Blaine Tech
	4/25/2014	74.10	34.75	27.95	6.80	44.89	Blaine Tech

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	5/5/2014	74.10	37.81	31.76	6.05	41.22	Nieto & Sons
	5/12/2014	74.10	32.32	29.11	3.21	44.40	Nieto & Sons
	5/20/2014	74.10	30.75	29.95	0.80	44.00	Nieto & Sons
	5/27/2014	74.1	38.08	32.32	5.76	40.71	Nieto & Sons
	6/4/2014	74.1	32.19	28.61	3.58	44.83	Nieto & Sons
	6/10/2014	74.1	36.27	28.85	7.42	43.88	Nieto & Sons
	7/3/2014	74.1	39.26	32.59	6.67	40.28	Nieto & Sons
	7/8/2014	74.1	36.40	28.60	7.80	44.06	Blaine Tech
	7/18/2014	74.1	31.04	29.66	1.38	44.18	Blaine Tech
	7/24/2014	74.1	31.15	29.85	1.30	44.01	Blaine Tech
	8/1/2014	74.1	30.25	29.85	0.40	44.18	Blaine Tech
	8/14/2014	74.1	30.13	29.82	0.31	44.22	Blaine Tech
	8/19/2014	74.1	30.08	29.85	0.23	44.21	Blaine Tech
	8/29/2014	74.1	30.10	29.81	0.29	44.24	Blaine Tech
	9/5/2014	74.1	30.13	29.84	0.29	44.21	Blaine Tech
	9/11/2014	74.1	29.49	28.47	1.02	45.44	Blaine Tech
	9/18/2014	74.1	30.29	29.90	0.39	44.13	Blaine Tech
	9/26/2014	74.1	30.25	29.84	0.41	44.18	Blaine Tech
	10/1/2014	74.1	30.24	29.84	0.40	44.19	Blaine Tech
	10/6/2014	74.1	30.24	29.83	0.41	44.19	Blaine Tech
	10/14/2014	74.1	30.12	29.81	0.31	44.23	Blaine Tech
	10/23/2014	74.1	30.27	29.85	0.42	44.17	Blaine Tech
	10/27/2014	74.1	30.29	29.89	0.40	44.14	Blaine Tech
	11/18/2014	74.1	30.35	29.86	0.49	44.15	Blaine Tech
	11/25/2014	74.1	30.42	29.91	0.51	44.10	Blaine Tech
	12/12/2014	74.1	30.65	30.10	0.55	43.90	Blaine Tech
	12/19/2014	74.1	30.80	30.13	0.67	43.85	Blaine Tech
	4/20/2015	74.1	36.69	27.67	9.02	44.76	Blaine Tech
	5/19/2015	74.1	35.68	26.83	8.85	45.63	Blaine Tech
	5/21/2015	74.1	32.50	27.31	5.19	45.83	Northstar
	5/29/2015	74.1	32.95	30.10	2.85	43.47	Northstar
	6/2/2015	74.1	31.67	30.45	1.22	43.42	Northstar
	6/5/2015	74.10	31.85	30.60	1.25	43.27	Northstar
	6/12/2015	74.10	31.28	30.75	0.53	43.25	Northstar
	6/19/2015	74.10	31.30	31.00	0.30	43.04	Northstar
	6/26/2015	74.10	31.20	29.50	1.70	44.29	Northstar
	8/11/2015	74.10	36.90	29.90	7.00	42.90	Northstar
	8/18/2015	74.10	35.19	30.25	4.94	42.94	Northstar
	8/28/2015	74.10	31.60	30.75	0.85	43.19	Kinder Morgan
	9/1/2015	74.10	31.78	30.90	0.88	43.04	Kinder Morgan
	10/16/2015	74.10	31.60	31.09	0.51	42.92	Blaine Tech
	10/19/2015	74.10	31.44	31.04	0.40	42.99	Kinder Morgan
	10/30/2015	74.10	32.60	32.06	0.54	41.94	Kinder Morgan
	11/17/2015	74.10	31.71	31.68	0.03	42.41	Kinder Morgan
	3/14/2016	74.10	34.14	---	---	39.96	Blaine Tech
	4/11/2016	74.10	32.89	---	---	41.21	Blaine Tech
	6/29/2016	74.10	34.00	---	---	40.10	Blaine Tech
MW-SF-10	10/17/2008	76.53	27.49	---	---	49.04	Envent
	10/19/2009	76.53	28.61	---	---	47.92	Blaine Tech
	10/4/2010	76.53	28.50	28.36	0.14	48.14	Blaine Tech
	4/11/2011	76.53	27.41	27.37	0.04	49.15	Blaine Tech
	10/10/2011	76.53	27.60	---	---	48.93	Blaine Tech
	4/16/2012	76.53	28.81	---	---	47.72	Blaine Tech
	7/9/2012	76.53	NM	---	---	NC	Blaine Tech
	10/15/2012	76.53	29.27	---	---	47.26	Blaine Tech
	4/8/2013	76.53	DRY	---	---	NC	Blaine Tech
	10/7/2013	76.53	DRY	---	---	NC	Blaine Tech
	4/14/2014	76.53	DRY	---	---	NC	Blaine Tech

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	10/27/2014	76.53	DRY	---	---	NC	Blaine Tech
	4/20/2015	76.53	DRY	---	---	NC	Blaine Tech
	10/19/2015	76.53	DRY	---	---	NC	Blaine Tech
	3/14/2016	76.53	DRY	---	---	NC	Blaine Tech
	4/11/2016	76.53	DRY	---	---	NC	Blaine Tech
	6/29/2016	76.53	DRY	---	---	NC	Blaine Tech
	8/22/2016	76.53	DRY	---	---	NC	Blaine Tech
	10/3/2016	76.53	DRY	---	---	NC	Blaine Tech
MW-SF-11	8/14/2007	78.56	28.58	28.30	0.28	50.20	Geomatrix
	8/21/2007	78.56	28.76	28.63	0.13	49.90	Geomatrix
	8/28/2007	78.56	28.22	---	---	50.34	Stantec
	9/11/2007	78.56	26.90	---	---	51.66	Geomatrix
	10/5/2007	78.56	28.43	---	---	50.13	Geomatrix
	11/2/2007	78.56	29.48	29.38	0.10	49.16	Geomatrix
	11/12/2007	78.56	29.03	---	---	49.53	Stantec
	8/15/2008	78.56	30.13	---	---	48.43	Envent
	10/17/2008	78.56	30.50	---	---	48.06	Envent
	12/18/2008	78.56	29.92	---	---	48.64	Envent
	1/15/2009	78.56	30.32	---	---	48.24	Envent
	3/24/2009	78.56	31.05	---	---	47.51	Envent
	4/21/2009	78.56	30.03	---	---	48.53	Envent
	7/21/2009	78.56	30.89	---	---	47.67	Envent
	10/19/2009	78.56	NM	---	---	NC	Blaine Tech
	11/9/2009	78.56	31.00	---	---	47.56	Kinder Morgan
	9/3/2010	78.56	31.22	---	---	47.34	Kinder Morgan
	10/4/2010	78.56	30.94	---	---	47.62	Blaine Tech
	4/12/2011	78.56	30.82	---	---	47.74	Blaine Tech
	10/10/2011	78.56	30.10	---	---	48.46	Blaine Tech
	4/16/2012	78.56	NM	---	---	NC	Blaine Tech
	7/9/2012	78.56	NM	---	---	NC	Blaine Tech
	10/15/2012	78.56	33.28	---	---	45.28	Blaine Tech
	4/8/2013	78.56	33.11	---	---	45.45	Blaine Tech
	10/7/2013	78.56	33.91	---	---	44.65	Blaine Tech
	4/14/2014	78.56	35.20	34.95	0.25	43.56	Blaine Tech
	5/5/2014	78.56	36.52	33.71	2.81	44.29	Nieto & Sons
	5/12/2014	78.56	35.45	33.87	1.58	44.37	Nieto & Sons
	5/27/2014	78.56	35.38	34.65	0.73	43.76	Nieto & Sons
	6/4/2014	78.56	35.40	35.32	0.08	43.22	Nieto & Sons
	8/8/2014	78.56	36.22	33.11	3.11	44.83	Blaine Tech
	8/13/2014	78.56	36.22	33.47	2.75	44.54	Blaine Tech
	8/19/2014	78.56	36.46	33.94	2.52	44.12	Blaine Tech
	8/29/2014	78.56	36.68	33.83	2.85	44.16	Blaine Tech
	9/5/2014	78.56	36.62	33.80	2.82	44.20	Blaine Tech
	9/11/2014	78.56	37.15	33.78	3.37	44.11	Blaine Tech
	9/18/2014	78.56	36.79	33.93	2.86	44.06	Blaine Tech
	9/26/2014	78.56	36.89	33.88	3.01	44.08	Blaine Tech
	10/1/2014	78.56	34.95	33.32	1.63	44.91	Blaine Tech
	10/6/2014	78.56	36.36	33.95	2.41	44.13	Blaine Tech
	10/14/2014	78.56	36.67	33.86	2.81	44.14	Blaine Tech
	10/23/2014	78.56	36.86	33.86	3.00	44.10	Blaine Tech
	10/27/2014	78.56	36.20	33.99	2.21	44.13	Blaine Tech
	11/3/2014	78.56	36.91	33.84	3.07	44.11	Blaine Tech
	11/18/2014	78.56	36.78	33.95	2.83	44.04	Blaine Tech
	11/25/2014	78.56	36.65	34.03	2.62	44.01	Blaine Tech
	12/3/2014	78.56	36.71	33.94	2.77	44.07	Blaine Tech
	12/12/2014	78.56	37.29	34.08	3.21	43.84	Blaine Tech
	12/19/2014	78.56	38.03	34.04	3.99	43.72	Blaine Tech
	3/17/2015	78.56	35.94	35.50	0.44	42.97	Kinder Morgan

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	4/20/2015	78.56	38.89	34.86	4.03	42.89	Kinder Morgan
	10/20/2015	78.56	37.42	35.38	2.04	42.77	Kinder Morgan
	3/16/2016	78.56	39.56	---	---	39.00	Kinder Morgan
	4/11/2016	78.56	37.62	---	---	40.94	Blaine Tech
	6/29/2016	78.56	37.06	---	---	41.50	Blaine Tech
	8/22/2016	78.56	39.25	---	---	39.31	Blaine Tech
	10/3/2016	78.56	40.05	---	---	38.51	Blaine Tech
	3/10/2017	78.56	36.56	---	---	42.00	CH2M
MW-SF-12	8/14/2007	78.07	27.76	---	---	50.31	Geomatrix
	8/21/2007	78.07	27.43	---	---	50.64	Geomatrix
	8/28/2007	78.07	27.58	---	---	50.49	Stantec
	9/11/2007	78.07	27.73	---	---	50.34	Geomatrix
	10/5/2007	78.07	28.06	---	---	50.01	Geomatrix
	11/2/2007	78.07	29.59	---	---	48.48	Geomatrix
	11/12/2007	78.07	28.33	---	---	49.74	Stantec
	8/12/2008	78.07	30.02	---	---	48.05	Envent
	10/17/2008	78.07	30.42	---	---	47.65	Envent
	12/18/2008	78.07	31.55	---	---	46.52	Envent
	1/15/2009	78.07	30.11	---	---	47.96	Envent
	3/24/2009	78.07	29.41	---	---	48.66	Envent
	4/21/2009	78.07	29.52	---	---	48.55	Envent
	7/21/2009	78.07	28.58	---	---	49.49	Envent
	10/19/2009	78.07	NM	---	---	NC	Blaine Tech
	11/4/2009	78.07	30.36	---	---	47.71	Kinder Morgan
	2/4/2010	78.07	29.20	---	---	48.87	Kinder Morgan
	10/4/2010	78.07	30.70	---	---	47.37	Blaine Tech
	4/11/2011	78.07	29.47	---	---	48.60	Blaine Tech
	10/10/2011	78.07	26.60	---	---	51.47	Blaine Tech
	4/16/2012	78.07	31.40	---	---	46.67	Blaine Tech
	7/9/2012	78.07	NM	---	---	NC	Blaine Tech
	10/15/2012	78.07	32.12	---	---	45.95	Blaine Tech
	4/8/2013	78.07	DRY	---	---	NC	Blaine Tech
	10/7/2013	78.07	NM	---	---	NC	Blaine Tech
	4/14/2014	78.07	38.04	32.67	5.37	44.33	Blaine Tech
	5/20/2014	78.07	37.80	32.90	4.90	44.19	Nieto & Sons
	5/27/2014	78.07	33.27	---	---	44.80	Nieto & Sons
	6/4/2014	78.07	32.78	---	---	45.29	Nieto & Sons
	6/10/2014	78.07	33.76	---	---	44.31	Nieto & Sons
	7/3/2014	78.07	NM	33.58	---	NC	Nieto & Sons
	7/24/2014	78.07	NM	33.35	3.97	NC	Blaine Tech
	8/1/2014	78.07	37.20	33.17	4.03	44.09	Blaine Tech
	9/5/2014	78.07	38.52	32.93	5.59	44.02	Blaine Tech
	9/11/2014	78.07	38.56	32.98	5.58	43.97	Blaine Tech
	9/18/2014	78.07	38.25	33.09	5.16	43.95	Blaine Tech
	9/26/2014	78.07	38.03	33.03	5.00	44.04	Blaine Tech
	10/1/2014	78.07	37.82	33.08	4.74	44.04	Blaine Tech
	10/6/2014	78.07	37.63	33.07	4.56	44.09	Blaine Tech
	10/14/2014	78.07	37.56	33.13	4.43	44.05	Blaine Tech
	10/23/2014	78.07	37.56	33.06	4.50	44.11	Blaine Tech
	10/27/2014	78.07	37.40	33.08	4.32	44.13	Blaine Tech
	11/3/2014	78.07	37.48	33.09	4.39	44.10	Blaine Tech
	11/18/2014	78.07	37.44	33.15	4.29	44.06	Blaine Tech
	11/25/2014	78.07	37.35	33.21	4.14	44.03	Blaine Tech
	12/3/2014	78.07	37.31	33.12	4.19	44.11	Blaine Tech
	12/12/2014	78.07	37.92	33.45	4.47	43.73	Blaine Tech
	12/19/2014	78.07	38.25	33.50	4.75	43.62	Blaine Tech
	3/17/2015	78.07	36.42	34.05	2.37	43.55	Kinder Morgan
	4/20/2015	78.07	36.42	34.05	2.37	43.55	Blaine Tech

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	10/20/2015	78.07	36.78	34.84	1.94	42.84	Kinder Morgan
	3/16/2016	78.07	39.03	---	---	39.04	Kinder Morgan
	4/11/2016	78.07	37.13	---	---	40.94	Blaine Tech
	6/29/2016	78.07	38.34	38.28	0.06	39.78	Blaine Tech
	8/22/2016	78.07	38.60	---	---	39.47	Blaine Tech
	10/3/2016	78.07	39.45	---	---	38.62	Blaine Tech
	3/10/2017	78.07	36.09	---	---	41.98	CH2M
MW-SF-13	8/14/2007	73.40	22.98	---	---	50.42	Geomatrix
	8/21/2007	73.40	23.11	---	---	50.29	Geomatrix
	8/28/2007	73.40	22.85	---	---	50.55	Stantec
	9/11/2007	73.40	23.10	---	---	50.30	Geomatrix
	10/5/2007	73.40	28.11	---	---	45.29	Geomatrix
	11/2/2007	73.40	25.43	25.41	0.02	47.99	Geomatrix
	11/12/2007	73.40	23.70	---	---	49.70	Stantec
	12/21/2007	73.40	24.45	24.42	0.03	48.97	Geomatrix
	8/15/2008	73.40	27.38	24.11	3.27	48.47	Envent
	10/17/2008	73.40	27.28	24.33	2.95	48.33	Envent
	10/21/2008	73.40	27.14	24.26	2.88	48.42	Envent
	12/17/2008	73.40	26.21	24.70	1.51	48.32	Envent
	1/15/2009	73.40	26.90	24.80	2.10	48.08	Envent
	3/27/2009	73.40	26.46	25.49	0.97	47.67	Envent
	4/21/2009	73.40	24.86	24.78	0.08	48.60	Envent
	7/21/2009	73.40	25.72	25.48	0.24	47.86	Envent
	10/19/2009	73.40	NM	---	---	NC	Blaine Tech
	11/6/2009	73.40	25.72	---	---	47.68	Kinder Morgan
	2/4/2010	73.40	25.43	25.30	0.13	48.07	Kinder Morgan
	9/3/2010	73.40	27.40	25.71	1.69	47.27	Kinder Morgan
	10/4/2010	73.40	26.95	25.92	1.03	47.22	Blaine Tech
	4/12/2011	73.40	24.79	24.78	0.01	48.62	Blaine Tech
	10/10/2011	73.40	26.00	---	---	47.40	Blaine Tech
	4/16/2012	73.40	27.19	---	---	46.21	Blaine Tech
	7/9/2012	73.40	NM	---	---	NC	Blaine Tech
	10/15/2012	73.40	27.01	---	---	46.39	Blaine Tech
	4/8/2013	73.40	27.90	---	---	45.50	Blaine Tech
	10/7/2013	73.40	NM	---	---	NC	Blaine Tech
	11/14/2013	73.40	29.95	28.25	1.70	44.73	Blaine Tech
	4/14/2014	73.40	31.36	28.47	2.89	44.21	Blaine Tech
	5/5/2014	73.40	31.62	28.49	3.13	44.13	Nieto & Sons
	5/12/2014	73.40	30.02	28.88	1.14	44.24	Nieto & Sons
	5/20/2014	73.40	31.10	29.77	1.33	43.30	Nieto & Sons
	5/27/2014	73.40	30.17	29.48	0.69	43.75	Nieto & Sons
	6/4/2014	73.40	30.22	---	---	43.18	Nieto & Sons
	6/10/2014	73.40	30.20	29.76	0.44	43.53	Nieto & Sons
	7/3/2014	73.40	30.49	29.88	0.61	43.37	Nieto & Sons
	7/24/2014	73.40	30.50	29.54	0.96	43.62	Blaine Tech
	8/1/2014	73.40	29.82	29.25	0.57	44.01	Blaine Tech
	8/8/2014	73.40	34.07	33.71	0.36	39.60	Blaine Tech
	8/14/2014	73.40	29.96	29.13	0.83	44.06	Blaine Tech
	8/19/2014	73.40	29.91	29.15	0.76	44.06	Blaine Tech
	8/29/2014	73.40	30.15	29.02	1.13	44.10	Blaine Tech
	9/5/2014	73.40	30.19	29.08	1.11	44.04	Blaine Tech
	9/11/2014	73.40	30.66	28.91	1.75	44.05	Blaine Tech
	9/18/2014	73.40	30.41	29.15	1.26	43.94	Blaine Tech
	9/26/2014	73.40	30.18	29.14	1.04	44.00	Blaine Tech
	10/1/2014	73.40	30.38	29.05	1.33	44.02	Blaine Tech
	10/6/2014	73.40	30.10	29.12	0.98	44.04	Blaine Tech
	10/13/2014	73.40	30.28	29.07	1.21	44.03	Blaine Tech
	10/23/2014	73.40	30.72	28.95	1.77	44.01	Blaine Tech

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	10/27/2014	73.40	30.21	29.06	1.15	44.05	Blaine Tech
	11/3/2014	73.40	30.62	28.93	1.69	44.05	Blaine Tech
	11/18/2014	73.40	30.54	29.11	1.43	43.93	Blaine Tech
	11/25/2014	73.40	29.48	29.14	0.34	44.18	Blaine Tech
	12/3/2014	73.40	31.02	28.93	2.09	43.95	Blaine Tech
	12/12/2014	73.40	31.05	29.40	1.65	43.59	Blaine Tech
	12/19/2014	73.40	31.11	29.40	1.71	43.57	Blaine Tech
	4/20/2015	73.40	32.44	29.04	3.40	43.51	Blaine Tech
	10/19/2015	73.40	35.16	29.31	5.85	42.63	Blaine Tech
	3/14/2016	73.40	34.72	---	---	38.68	Blaine Tech
	4/11/2016	73.40	32.28	---	---	41.12	Blaine Tech
	6/29/2016	73.40	33.62	---	---	39.78	Blaine Tech
	8/22/2016	73.40	33.66	---	---	39.74	Blaine Tech
	10/3/2016	73.40	34.20	---	---	39.20	Blaine Tech
	3/24/2017	73.40	31.25	---	---	42.15	CH2M
MW-SF-14	8/14/2007	78.16	27.68	---	---	50.48	Geomatrix
	8/21/2007	78.16	27.60	---	---	50.56	Geomatrix
	8/28/2007	78.16	27.53	---	---	50.63	Stantec
	9/11/2007	78.16	27.66	---	---	50.50	Geomatrix
	10/5/2007	78.16	27.75	---	---	50.41	Geomatrix
	11/2/2007	78.16	29.83	---	---	48.33	Geomatrix
	11/12/2007	78.16	NM	---	---	NC	Secor
	8/15/2008	78.16	29.77	29.24	0.53	48.81	Envent
	10/17/2008	78.16	29.52	29.50	0.02	48.66	Envent
	12/18/2008	78.16	30.62	---	---	47.54	Envent
	1/15/2009	78.16	30.08	---	---	48.08	Envent
	3/24/2009	78.16	29.73	---	---	48.43	Envent
	4/21/2009	78.16	29.61	---	---	48.55	Envent
	7/21/2009	78.16	29.20	---	---	48.96	Envent
	10/19/2009	78.16	NM	---	---	NC	Blaine Tech
	11/6/2009	78.16	30.48	---	---	47.68	Kinder Morgan
	12/9/2009	78.16	30.68	---	---	47.48	Kinder Morgan
	6/22/2010	78.16	26.17	---	---	51.99	Blaine Tech
	10/4/2010	78.16	30.54	---	---	47.62	Blaine Tech
	4/12/2011	78.16	29.55	---	---	48.61	Blaine Tech
	10/10/2011	78.16	29.84	---	---	48.32	Blaine Tech
	4/16/2012	78.16	NM	---	---	NC	Blaine Tech
	7/9/2012	78.16	NM	---	---	NC	Blaine Tech
	10/15/2012	78.16	30.02	---	---	48.14	Blaine Tech
	4/8/2013	78.16	32.75	---	---	45.41	Blaine Tech
	5/24/2013	78.16	32.75	---	---	45.41	Blaine Tech
	9/26/2013	78.16	34.50	34.25	0.25	43.86	Blaine Tech
	10/7/2013	78.16	NM	---	---	NC	Blaine Tech
	11/14/2013	78.16	33.57	33.19	0.38	44.89	Blaine Tech
	4/14/2014	78.16	34.81	33.56	1.25	44.35	Blaine Tech
	8/8/2014	78.16	34.24	33.98	0.26	44.13	Blaine Tech
	10/14/2014	78.16	34.36	33.80	0.56	44.25	Blaine Tech
	10/23/2014	78.16	34.49	34.43	0.06	43.72	Blaine Tech
	10/27/2014	78.16	34.40	33.97	0.43	44.10	Blaine Tech
	11/18/2014	78.16	34.27	34.07	0.20	44.05	Blaine Tech
	4/20/2015	78.16	34.48	---	---	43.68	Blaine Tech
	10/21/2015	78.16	35.25	---	---	42.91	Blaine Tech
	3/14/2016	78.16	36.21	---	---	41.95	Blaine Tech
	4/11/2016	78.16	37.14	---	---	41.02	Blaine Tech
	6/29/2016	78.16	37.36	---	---	40.80	Blaine Tech
	8/22/2016	78.16	DRY	---	---	NC	Blaine Tech
	10/3/2016	78.16	DRY	---	---	NC	Blaine Tech

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells
SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
MW-SF-15	8/14/2007	78.27	27.78	27.75	0.03	50.51	Geomatrix
	8/21/2007	78.27	27.69	27.65	0.04	50.61	Geomatrix
	8/28/2007	78.27	27.65	27.61	0.04	50.65	Stantec
	9/11/2007	78.27	27.62	---	---	50.65	Geomatrix
	10/5/2007	78.27	28.15	---	---	50.12	Geomatrix
	11/2/2007	78.27	30.45	30.20	0.25	48.02	Geomatrix
	11/12/2007	78.27	28.75	---	---	49.52	Stantec
	8/15/2008	78.27	30.12	29.35	0.77	48.77	Envent
	10/17/2008	78.27	30.80	29.44	1.36	48.56	Envent
	10/21/2008	78.27	30.80	29.31	1.49	48.66	Envent
	12/18/2008	78.27	32.11	30.56	1.55	47.40	Envent
	1/15/2009	78.27	31.75	29.70	2.05	48.16	Envent
	3/24/2009	78.27	30.32	29.93	0.39	48.26	Envent
	4/21/2009	78.27	29.96	29.60	0.36	48.60	Envent
	7/21/2009	78.27	30.45	---	---	47.82	Envent
	10/19/2009	78.27	NM	---	---	NC	Blaine Tech
	11/4/2009	78.27	31.10	30.45	0.36	47.46	Kinder Morgan
	12/9/2009	78.27	30.87	---	---	47.40	Kinder Morgan
	10/4/2010	78.27	30.66	30.65	0.01	47.62	Blaine Tech
	4/12/2011	78.27	30.50	29.40	1.10	48.65	Blaine Tech
	10/10/2011	78.27	29.60	---	---	48.67	Blaine Tech
	12/2/2011	78.27	31.40	30.05	1.35	47.95	Blaine Tech
	4/16/2012	78.27	32.48	32.39	0.09	45.86	Blaine Tech
	7/9/2012	78.27	NM	---	---	NC	Blaine Tech
	10/15/2012	78.16	33.04	---	---	45.12	Blaine Tech
	4/8/2013	78.27	33.90	---	---	44.37	Blaine Tech
	5/24/2013	78.27	33.90	---	---	44.37	Blaine Tech
	10/7/2013	78.27	NM	---	---	NC	Blaine Tech
	11/14/2013	78.27	33.41	33.38	0.03	44.88	Blaine Tech
	4/18/2014	78.27	33.85	---	---	44.42	Blaine Tech
	8/8/2014	78.27	34.87	33.96	0.91	44.13	Blaine Tech
	8/13/2014	78.27	34.89	33.95	0.94	44.13	Blaine Tech
	8/19/2014	78.27	34.90	33.94	0.96	44.14	Blaine Tech
8/29/2014	78.27	35.65	35.38	0.27	42.84	Blaine Tech	
10/27/2014	78.27	35.82	---	---	42.45	Blaine Tech	
4/20/2015	78.27	36.63	34.12	2.51	43.65	Blaine Tech	
10/19/2015	78.27	37.90	34.87	3.03	42.79	Blaine Tech	
11/17/2015	78.27	37.71	35.36	2.35	42.44	Kinder Morgan	
3/14/2016	78.27	39.70	---	---	38.57	Blaine Tech	
4/11/2016	78.27	37.24	---	---	41.03	Blaine Tech	
6/29/2016	78.27	38.70	---	---	39.57	Blaine Tech	
8/22/2016	78.27	38.78	---	---	39.49	Blaine Tech	
10/3/2016	78.27	39.56	---	---	38.71	Blaine Tech	
3/23/2017	78.27	36.10	---	---	42.17	CH2M	
MW-SF-16	8/14/2007	78.21	27.68	---	---	50.53	Geomatrix
	8/21/2007	78.21	27.33	---	---	50.88	Geomatrix
	8/28/2007	78.21	27.51	---	---	50.70	Stantec
	9/11/2007	78.21	27.59	---	---	50.62	Geomatrix
	10/5/2007	78.21	28.10	---	---	50.11	Geomatrix
	11/2/2007	78.21	29.81	---	---	48.40	Geomatrix
	11/12/2007	78.21	28.40	---	---	49.81	Stantec
	8/15/2008	78.21	29.36	---	---	48.85	Envent
	10/17/2008	78.21	29.51	---	---	48.70	Envent
	12/18/2008	78.21	30.94	---	---	47.27	Envent
	1/15/2009	78.21	30.01	30.00	0.01	48.21	Envent
	3/24/2009	78.21	29.82	---	---	48.39	Envent
	4/21/2009	78.21	29.60	---	---	48.61	Envent
7/21/2009	78.21	30.36	---	---	47.85	Envent	

Table 4. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

Well ID	Date Gauged	Top of Well Casing Elevation (feet msl)	Measured Depth to Groundwater (feet btoc)	Measured Depth to Product (feet btoc)	Apparent Product Thickness (feet)	Corrected Groundwater Elevation (feet msl)	Gauged By
	10/19/2009	78.21	NM	---	---	NC	Blaine Tech
	11/4/2009	78.21	30.58	---	---	47.63	Kinder Morgan
	2/4/2010	78.21	30.36	---	---	47.85	Kinder Morgan
	9/3/2010	78.21	30.25	---	---	47.96	Kinder Morgan
	10/4/2010	78.21	30.49	---	---	47.72	Blaine Tech
	4/12/2011	78.21	29.52	---	---	48.69	Blaine Tech
	10/10/2011	78.21	29.85	---	---	48.36	Blaine Tech
	4/16/2012	78.21	NM	---	---	NC	Blaine Tech
	7/9/2012	78.21	NM	---	---	NC	Blaine Tech
	10/15/2012	78.21	32.47	---	---	45.74	Blaine Tech
	4/8/2013	78.21	32.97	32.73	0.24	45.43	Blaine Tech
	5/24/2013	78.21	32.97	32.73	0.24	45.43	Blaine Tech
	10/7/2013	78.21	NM	---	---	NC	Blaine Tech
	11/14/2013	78.21	33.80	33.21	0.59	44.88	Blaine Tech
	4/18/2014	78.21	34.20	33.65	0.55	44.45	Blaine Tech
	8/8/2014	78.21	34.06	34.05	0.01	44.16	Blaine Tech
	10/27/2014	78.21	34.25	---	---	43.96	Blaine Tech
	4/20/2015	78.21	34.52	---	---	43.69	Blaine Tech
	6/8/2015	78.21	35.17	35.00	0.17	43.18	Blaine Tech
	10/21/2015	78.21	34.56	---	---	43.65	Kinder Morgan
	3/14/2016	78.21	39.60	---	---	38.61	Blaine Tech
	4/11/2016	78.21	37.15	---	---	41.06	Blaine Tech
	6/29/2016	78.21	38.35	---	---	39.86	Blaine Tech
	8/22/2016	78.21	38.51	---	---	39.70	Blaine Tech
	10/3/2016	78.21	39.35	---	---	38.86	Blaine Tech

Notes:

Corrected groundwater elevations are based on specific gravity data collected during baildown testing, or a default value of 0.8 was used for wells not tested.

--- = not detected or not applicable

DRY = No measurable water observed in the well.

feet btoc = feet below top of casing

feet msl = feet above mean sea level based on National Geodetic Vertical Datum of 1929

NC = not calculated

NM = not measured

Figures

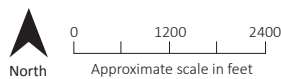
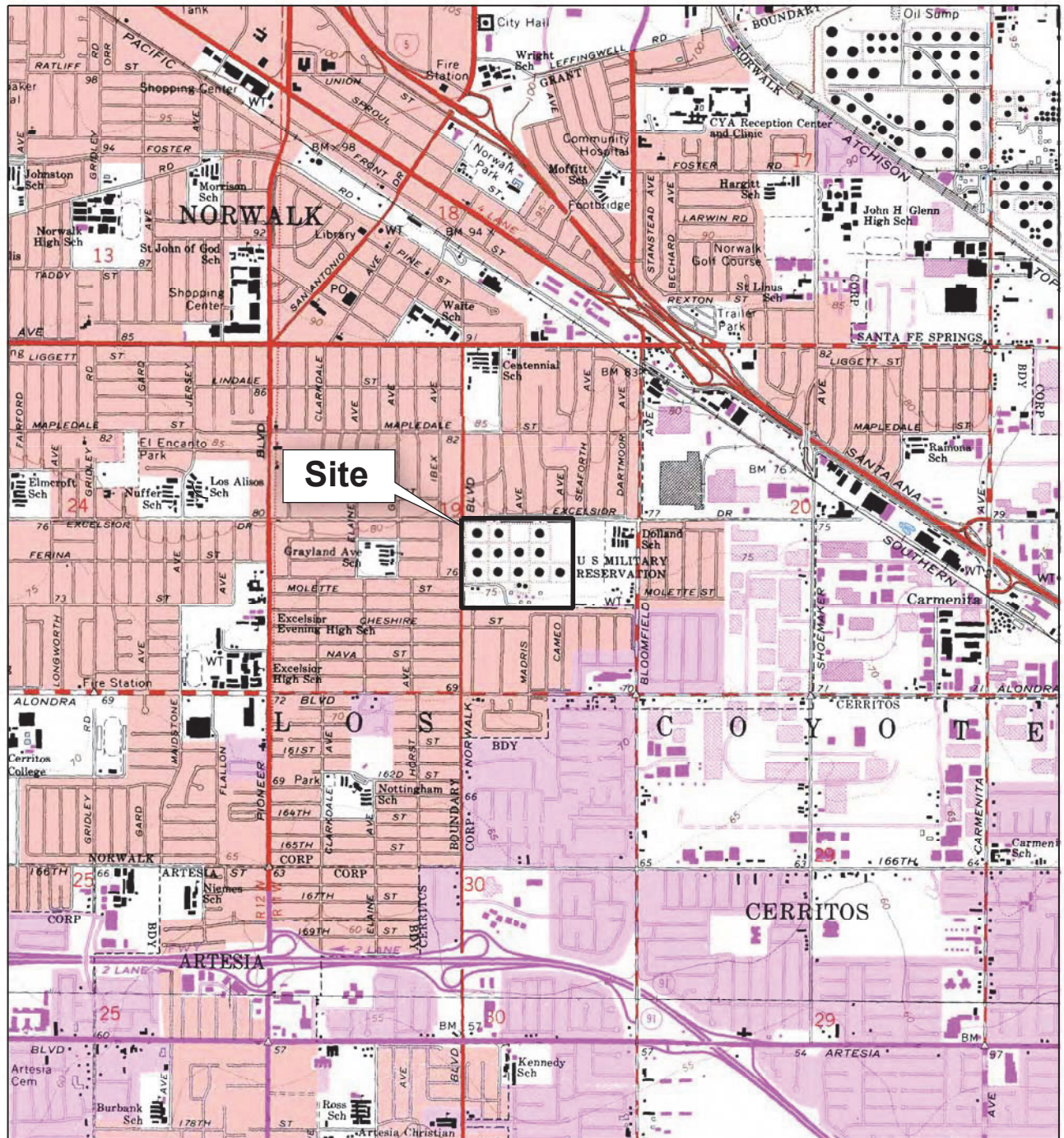
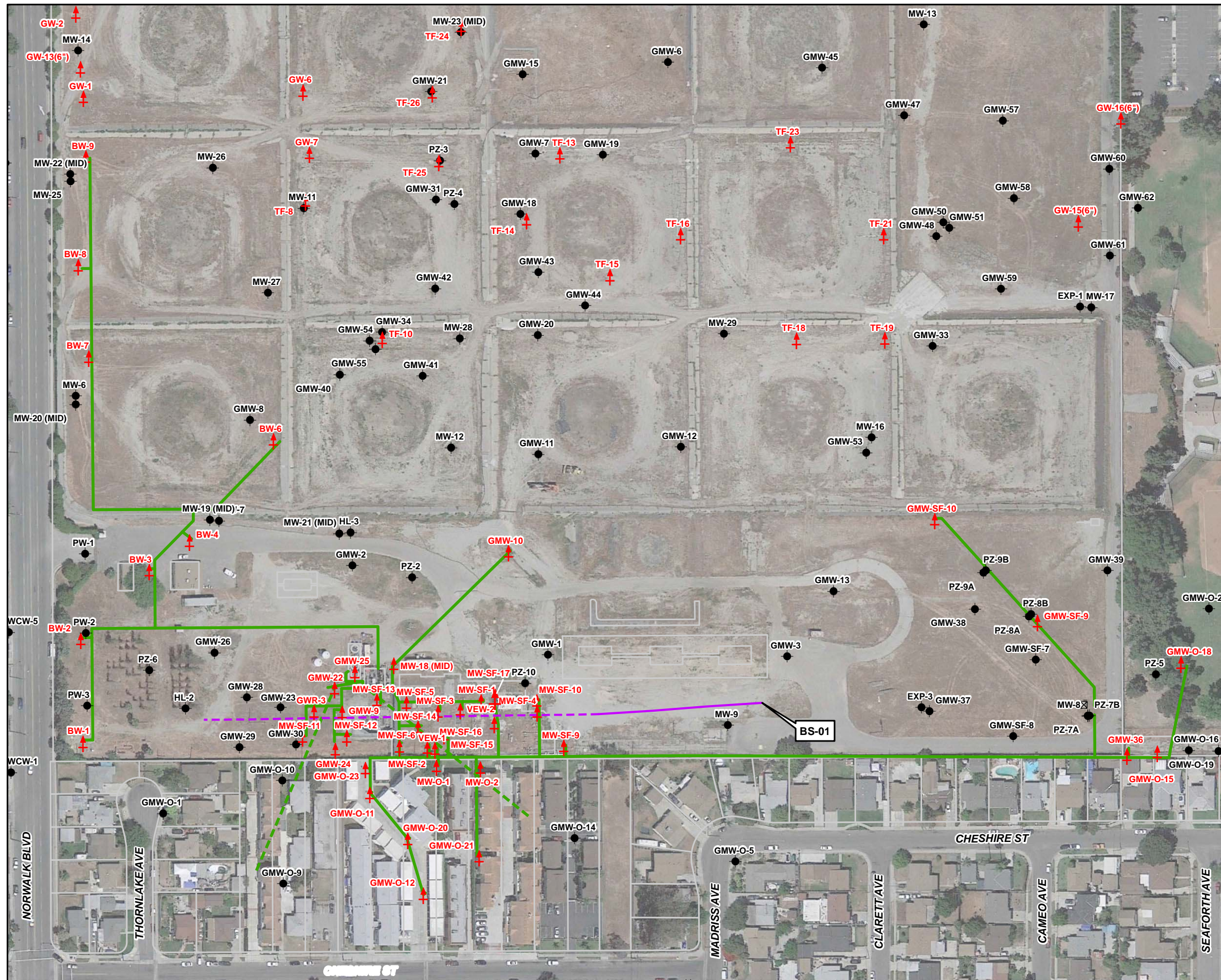


Figure 1
Site Location Map
SFP Norwalk Pump Station
Norwalk, California

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



Legend

- Existing Groundwater Monitoring Well
- ⊕ Existing Remediation Well
- Horizontal Biosparge Well
(dashed line depicts approximate lateral extent of well screen)
- KMEP Remediation Piping Layout
(above ground and below ground)
- - - Horizontal Vapor Extraction Well Piping

Imagery Source:
Google Earth April 17, 2013.

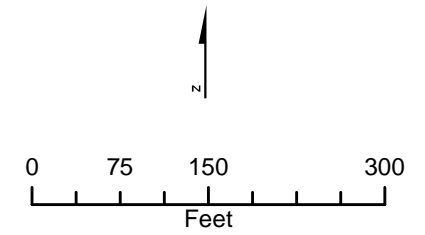


Figure 2
Remediation System Layout
SFPP Norwalk Pump Station
Norwalk, California



Appendix A
Laboratory Analytical Reports

January 26, 2017

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

TEL:

FAX:

Workorder No.: N022743

RE: SFPP-Norwalk


Attention: Dan Jablonski

Enclosed are the results for sample(s) received on January 19, 2017 by ASSET Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

 for

Puri Romualdo
Laboratory Director

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



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CLIENT: CH2MHill
Project: SFPP-Norwalk
Lab Order: N022743

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

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

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

Samples were analyzed within method holding time.

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

Analytical Comments for EPA 8260B:

Laboratory Control Sample (LCS) recovery biased high for Bromoform. Sample results were non-detect (ND) for this analyte therefore reanalysis of the samples was not necessary.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery and RPD criteria in QC samples N022744-001FMS and N022744-001FMSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.



CLIENT: CH2MHill
Project: SFPP-Norwalk
Lab Order: N022743
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N022743-001A	INF-01-19	Wastewater	1/19/2017 9:20:00 AM	1/19/2017	1/26/2017
N022743-001B	INF-01-19	Wastewater	1/19/2017 9:20:00 AM	1/19/2017	1/26/2017



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 26-Jan-17

CLIENT: CH2MHill
Lab Order: N022743
Project: SFPP-Norwalk
Lab ID: N022743-001

Client Sample ID: INF-01-19
Collection Date: 1/19/2017 9:20:00 AM
Matrix: WASTEWATER

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS8_170120A	QC Batch: R17VW012	PrepDate:	Analyst: RB			
1,1,1,2-Tetrachloroethane	ND	0.089	1.0	ug/L	1	1/20/2017 02:39 PM
1,1,1-Trichloroethane	ND	0.15	1.0	ug/L	1	1/20/2017 02:39 PM
1,1,2,2-Tetrachloroethane	ND	0.14	1.0	ug/L	1	1/20/2017 02:39 PM
1,1,2-Trichloroethane	ND	0.15	1.0	ug/L	1	1/20/2017 02:39 PM
1,1-Dichloroethane	ND	0.13	0.50	ug/L	1	1/20/2017 02:39 PM
1,1-Dichloroethene	ND	0.15	1.0	ug/L	1	1/20/2017 02:39 PM
1,1-Dichloropropene	ND	0.12	1.0	ug/L	1	1/20/2017 02:39 PM
1,2,3-Trichlorobenzene	ND	0.16	1.0	ug/L	1	1/20/2017 02:39 PM
1,2,3-Trichloropropane	ND	0.097	1.0	ug/L	1	1/20/2017 02:39 PM
1,2,4-Trichlorobenzene	ND	0.13	1.0	ug/L	1	1/20/2017 02:39 PM
1,2,4-Trimethylbenzene	1.8	0.094	1.0	ug/L	1	1/20/2017 02:39 PM
1,2-Dibromo-3-chloropropane	ND	0.36	2.0	ug/L	1	1/20/2017 02:39 PM
1,2-Dibromoethane	ND	0.18	1.0	ug/L	1	1/20/2017 02:39 PM
1,2-Dichlorobenzene	ND	0.14	1.0	ug/L	1	1/20/2017 02:39 PM
1,2-Dichloroethane	0.43	0.13	0.50	J ug/L	1	1/20/2017 02:39 PM
1,2-Dichloropropane	ND	0.14	1.0	ug/L	1	1/20/2017 02:39 PM
1,3,5-Trimethylbenzene	1.0	0.11	1.0	ug/L	1	1/20/2017 02:39 PM
1,3-Dichlorobenzene	ND	0.11	1.0	ug/L	1	1/20/2017 02:39 PM
1,3-Dichloropropane	ND	0.13	1.0	ug/L	1	1/20/2017 02:39 PM
1,4-Dichlorobenzene	ND	0.13	1.0	ug/L	1	1/20/2017 02:39 PM
2,2-Dichloropropane	ND	0.16	1.0	ug/L	1	1/20/2017 02:39 PM
2-Butanone	ND	1.9	10	ug/L	1	1/20/2017 02:39 PM
2-Chlorotoluene	ND	0.14	1.0	ug/L	1	1/20/2017 02:39 PM
4-Chlorotoluene	ND	0.14	1.0	ug/L	1	1/20/2017 02:39 PM
4-Isopropyltoluene	ND	0.13	1.0	ug/L	1	1/20/2017 02:39 PM
4-Methyl-2-pentanone	ND	1.4	10	ug/L	1	1/20/2017 02:39 PM
Acetone	ND	4.3	10	ug/L	1	1/20/2017 02:39 PM
Benzene	6.9	0.14	1.0	ug/L	1	1/20/2017 02:39 PM
Bromobenzene	ND	0.13	1.0	ug/L	1	1/20/2017 02:39 PM
Bromochloromethane	ND	0.15	1.0	ug/L	1	1/20/2017 02:39 PM
Bromodichloromethane	ND	0.10	1.0	ug/L	1	1/20/2017 02:39 PM
Bromoform	ND	0.34	1.0	ug/L	1	1/20/2017 02:39 PM
Bromomethane	ND	0.12	1.0	ug/L	1	1/20/2017 02:39 PM
Carbon disulfide	0.14	0.14	1.0	J ug/L	1	1/20/2017 02:39 PM
Carbon tetrachloride	ND	0.13	0.50	ug/L	1	1/20/2017 02:39 PM
Chlorobenzene	ND	0.13	1.0	ug/L	1	1/20/2017 02:39 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified

E Value above quantitation range
J Analyte detected below quantitation limits
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 26-Jan-17

CLIENT: CH2MHill
Lab Order: N022743
Project: SFPP-Norwalk
Lab ID: N022743-001

Client Sample ID: INF-01-19
Collection Date: 1/19/2017 9:20:00 AM
Matrix: WASTEWATER

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS8_170120A	QC Batch: R17VW012	PrepDate:	Analyst: RB			
Chloroethane	ND	0.19	1.0	ug/L	1	1/20/2017 02:39 PM
Chloroform	ND	0.18	1.0	ug/L	1	1/20/2017 02:39 PM
Chloromethane	ND	0.22	1.0	ug/L	1	1/20/2017 02:39 PM
cis-1,2-Dichloroethene	ND	0.20	1.0	ug/L	1	1/20/2017 02:39 PM
cis-1,3-Dichloropropene	ND	0.14	1.0	ug/L	1	1/20/2017 02:39 PM
Di-isopropyl ether	8.1	0.18	1.0	ug/L	1	1/20/2017 02:39 PM
Dibromochloromethane	ND	0.12	1.0	ug/L	1	1/20/2017 02:39 PM
Dibromomethane	ND	0.12	1.0	ug/L	1	1/20/2017 02:39 PM
Dichlorodifluoromethane	ND	0.17	1.0	ug/L	1	1/20/2017 02:39 PM
Ethyl tert-butyl ether	ND	0.15	1.0	ug/L	1	1/20/2017 02:39 PM
Ethylbenzene	0.24	0.14	1.0	J ug/L	1	1/20/2017 02:39 PM
Freon-113	ND	0.19	1.0	ug/L	1	1/20/2017 02:39 PM
Hexachlorobutadiene	ND	0.15	1.0	ug/L	1	1/20/2017 02:39 PM
Isopropylbenzene	0.39	0.11	1.0	J ug/L	1	1/20/2017 02:39 PM
m,p-Xylene	0.69	0.23	1.0	J ug/L	1	1/20/2017 02:39 PM
Methylene chloride	ND	0.26	2.0	ug/L	1	1/20/2017 02:39 PM
MTBE	2.4	0.13	1.0	ug/L	1	1/20/2017 02:39 PM
n-Butylbenzene	ND	0.15	1.0	ug/L	1	1/20/2017 02:39 PM
n-Propylbenzene	0.36	0.16	1.0	J ug/L	1	1/20/2017 02:39 PM
Naphthalene	2.1	0.094	1.0	ug/L	1	1/20/2017 02:39 PM
o-Xylene	0.42	0.13	1.0	J ug/L	1	1/20/2017 02:39 PM
sec-Butylbenzene	ND	0.12	1.0	ug/L	1	1/20/2017 02:39 PM
Styrene	ND	0.14	1.0	ug/L	1	1/20/2017 02:39 PM
Tert-amyl methyl ether	ND	0.12	1.0	ug/L	1	1/20/2017 02:39 PM
Tert-Butanol	2300	18	50	ug/L	10	1/20/2017 03:05 PM
tert-Butylbenzene	ND	0.11	1.0	ug/L	1	1/20/2017 02:39 PM
Tetrachloroethene	ND	0.13	1.0	ug/L	1	1/20/2017 02:39 PM
Toluene	0.15	0.14	2.0	J ug/L	1	1/20/2017 02:39 PM
trans-1,2-Dichloroethene	ND	0.20	1.0	ug/L	1	1/20/2017 02:39 PM
trans-1,3-Dichloropropene	ND	0.13	1.0	ug/L	1	1/20/2017 02:39 PM
Trichloroethene	ND	0.14	1.0	ug/L	1	1/20/2017 02:39 PM
Trichlorofluoromethane	ND	0.13	1.0	ug/L	1	1/20/2017 02:39 PM
Vinyl chloride	ND	0.15	0.50	ug/L	1	1/20/2017 02:39 PM
Xylenes, Total	ND	1.5	2.0	ug/L	1	1/20/2017 02:39 PM
Surr: 1,2-Dichloroethane-d4	90.5	0	72-119	%REC	1	1/20/2017 02:39 PM
Surr: 1,2-Dichloroethane-d4	103	0	72-119	%REC	10	1/20/2017 03:05 PM

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



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ANALYTICAL RESULTS

Print Date: 26-Jan-17

CLIENT: CH2MHill
Lab Order: N022743
Project: SFPP-Norwalk
Lab ID: N022743-001

Client Sample ID: INF-01-19
Collection Date: 1/19/2017 9:20:00 AM
Matrix: WASTEWATER

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS8_170120A	QC Batch: R17VW012				PrepDate:	Analyst: RB	
Surr: 4-Bromofluorobenzene	94.7	0	76-119	%REC	10	1/20/2017 03:05 PM	
Surr: 4-Bromofluorobenzene	96.8	0	76-119	%REC	1	1/20/2017 02:39 PM	
Surr: Dibromofluoromethane	100	0	85-115	%REC	10	1/20/2017 03:05 PM	
Surr: Dibromofluoromethane	92.8	0	85-115	%REC	1	1/20/2017 02:39 PM	
Surr: Toluene-d8	101	0	81-120	%REC	1	1/20/2017 02:39 PM	
Surr: Toluene-d8	100	0	81-120	%REC	10	1/20/2017 03:05 PM	

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID: NV00922-GC3_170120A	QC Batch: 60982				PrepDate: 1/20/2017	Analyst: FJ	
TPH-Diesel (C13-C22)	340	15	25	ug/L	1	1/20/2017 03:20 PM	
TPH-Oil (C23-C36)	120	14	25	ug/L	1	1/20/2017 03:20 PM	
Surr: Octacosane	82.9	0	26-152	%REC	1	1/20/2017 03:20 PM	
Surr: p-Terphenyl	84.0	0	57-132	%REC	1	1/20/2017 03:20 PM	

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: NV00922-GC4_170120A	QC Batch: E17VW008				PrepDate:	Analyst: RB	
TPH-Gasoline (C4-C12)	190	16	50	ug/L	1	1/20/2017 12:44 PM	
Surr: Chlorobenzene - d5	130	0	74-138	%REC	1	1/20/2017 12:44 PM	

TOTAL TPH

EPA 8015B

RunID: NV00922-GC3_170120A	QC Batch: R112979				PrepDate:	Analyst: FJ	
Total TPH	640	16	100	ug/L	1	1/20/2017	

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



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CLIENT: CH2MHill
Work Order: N022743
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-60982	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 1/20/2017	RunNo: 112979						
Client ID: PBW	Batch ID: 60982	TestNo: EPA 8015B EPA 3510C		Analysis Date: 1/20/2017	SeqNo: 2539633						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	25									
TPH-Oil (C23-C36)	23.172	25									J
Surr: Octacosane	71.085		80.00		88.9	26	152				
Surr: p-Terphenyl	73.690		80.00		92.1	57	132				

Qualifiers:

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



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 ORELAP/NELAP Cert 4046

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CLIENT: CH2MHill
Work Order: N022743
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

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

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N022743
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFP

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

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

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

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

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N022743
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: R170120LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 112976						
Client ID: LCSW	Batch ID: R17VW012	TestNo: EPA 8260B		Analysis Date: 1/20/2017	SeqNo: 2539650						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	21.650	1.0	20.00	0	108	81	129				
1,1,1-Trichloroethane	19.360	1.0	20.00	0	96.8	67	132				
1,1,2,2-Tetrachloroethane	19.940	1.0	20.00	0	99.7	63	128				
1,1,2-Trichloroethane	20.400	1.0	20.00	0	102	75	125				
1,1-Dichloroethane	20.030	0.50	20.00	0	100	69	133				
1,1-Dichloroethene	18.990	1.0	20.00	0	95.0	68	130				
1,1-Dichloropropene	19.630	1.0	20.00	0	98.2	73	132				
1,2,3-Trichlorobenzene	20.070	1.0	20.00	0	100	67	137				
1,2,3-Trichloropropane	18.970	1.0	20.00	0	94.8	73	124				
1,2,4-Trichlorobenzene	19.670	1.0	20.00	0	98.4	66	134				
1,2,4-Trimethylbenzene	20.500	1.0	20.00	0	103	74	132				
1,2-Dibromo-3-chloropropane	20.100	2.0	20.00	0	101	50	132				
1,2-Dibromoethane	20.800	1.0	20.00	0	104	80	121				
1,2-Dichlorobenzene	21.360	1.0	20.00	0	107	71	122				
1,2-Dichloroethane	20.100	0.50	20.00	0	101	69	132				
1,2-Dichloropropane	19.790	1.0	20.00	0	99.0	75	125				
1,3,5-Trimethylbenzene	20.370	1.0	20.00	0	102	74	131				
1,3-Dichlorobenzene	20.800	1.0	20.00	0	104	75	124				
1,3-Dichloropropane	20.800	1.0	20.00	0	104	73	126				
1,4-Dichlorobenzene	20.180	1.0	20.00	0	101	74	123				
2,2-Dichloropropane	20.780	1.0	20.00	0	104	69	137				
2-Butanone	157.020	10	200.0	0	78.5	49	136				
2-Chlorotoluene	19.640	1.0	20.00	0	98.2	73	126				
4-Chlorotoluene	19.660	1.0	20.00	0	98.3	74	128				
4-Isopropyltoluene	20.110	1.0	20.00	0	101	73	130				
4-Methyl-2-pentanone	200.440	10	200.0	0	100	58	134				
Acetone	150.310	10	200.0	0	75.2	40	135				
Benzene	20.080	1.0	20.00	0	100	81	122				
Bromobenzene	20.170	1.0	20.00	0	101	76	124				
Bromochloromethane	19.880	1.0	20.00	0	99.4	65	129				

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 | DO Surrogate Diluted Out | Calculations are based on raw values |



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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022743
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: R170120LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 112976						
Client ID: LCSW	Batch ID: R17VW012	TestNo: EPA 8260B		Analysis Date: 1/20/2017	SeqNo: 2539650						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	21.320	1.0	20.00	0	107	76	121				
Bromoform	26.090	1.0	20.00	0	130	69	128				S
Bromomethane	20.990	1.0	20.00	0	105	53	141				
Carbon disulfide	21.460	1.0	20.00	0	107	75	125				
Carbon tetrachloride	20.680	0.50	20.00	0	103	66	138				
Chlorobenzene	20.570	1.0	20.00	0	103	81	122				
Chloroethane	24.310	1.0	20.00	0	122	58	133				
Chloroform	18.940	1.0	20.00	0	94.7	69	128				
Chloromethane	16.810	1.0	20.00	0	84.0	56	131				
cis-1,2-Dichloroethene	19.440	1.0	20.00	0	97.2	72	126				
cis-1,3-Dichloropropene	21.090	1.0	20.00	0	105	69	131				
Di-isopropyl ether	20.030	1.0	20.00	0	100	70	130				
Dibromochloromethane	22.980	1.0	20.00	0	115	66	133				
Dibromomethane	20.640	1.0	20.00	0	103	76	125				
Dichlorodifluoromethane	17.850	1.0	20.00	0	89.2	53	153				
Ethyl tert-butyl ether	21.620	1.0	20.00	0	108	70	130				
Ethylbenzene	20.120	1.0	20.00	0	101	73	127				
Freon-113	18.520	1.0	20.00	0	92.6	75	125				
Hexachlorobutadiene	20.200	1.0	20.00	0	101	67	131				
Isopropylbenzene	19.740	1.0	20.00	0	98.7	75	127				
m,p-Xylene	41.340	1.0	40.00	0	103	76	128				
Methylene chloride	17.770	2.0	20.00	0	88.8	63	137				
MTBE	19.570	1.0	20.00	0	97.9	65	123				
n-Butylbenzene	19.200	1.0	20.00	0	96.0	69	137				
n-Propylbenzene	19.720	1.0	20.00	0	98.6	72	129				
Naphthalene	17.970	1.0	20.00	0	89.8	54	138				
o-Xylene	20.480	1.0	20.00	0	102	80	121				
sec-Butylbenzene	19.730	1.0	20.00	0	98.6	72	127				
Styrene	22.080	1.0	20.00	0	110	65	134				
Tert-amyl methyl ether	20.140	1.0	20.00	0	101	70	130				

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 | DO Surrogate Diluted Out | Calculations are based on raw values |

CLIENT: CH2MHill
Work Order: N022743
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: R170120LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 112976						
Client ID: LCSW	Batch ID: R17VW012	TestNo: EPA 8260B		Analysis Date: 1/20/2017	SeqNo: 2539650						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tert-Butanol	102.370	5.0	100.0	0	102	70	130				
tert-Butylbenzene	19.560	1.0	20.00	0	97.8	70	129				
Tetrachloroethene	21.250	1.0	20.00	0	106	66	128				
Toluene	19.460	2.0	20.00	0	97.3	77	122				
trans-1,2-Dichloroethene	18.390	1.0	20.00	0	92.0	63	137				
trans-1,3-Dichloropropene	22.030	1.0	20.00	0	110	59	135				
Trichloroethene	19.930	1.0	20.00	0	99.7	70	127				
Trichlorofluoromethane	18.600	1.0	20.00	0	93.0	57	129				
Vinyl chloride	17.940	0.50	20.00	0	89.7	50	134				
Xylenes, Total	61.820	2.0	60.00	0	103	75	125				
Surr: 1,2-Dichloroethane-d4	23.940		25.00		95.8	72	119				
Surr: 4-Bromofluorobenzene	26.100		25.00		104	76	119				
Surr: Dibromofluoromethane	25.500		25.00		102	85	115				
Surr: Toluene-d8	25.360		25.00		101	81	120				

Sample ID: R170120MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 112976						
Client ID: PBW	Batch ID: R17VW012	TestNo: EPA 8260B		Analysis Date: 1/20/2017	SeqNo: 2539651						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	1.0									
1,1-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,3-Trichloropropane	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									

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 | DO Surrogate Diluted Out | Calculations are based on raw values |

CLIENT: CH2MHill
Work Order: N022743
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: R170120MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 112976						
Client ID: PBW	Batch ID: R17VW012	TestNo: EPA 8260B		Analysis Date: 1/20/2017	SeqNo: 2539651						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	ND	2.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,3-Dichloropropane	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
2,2-Dichloropropane	ND	1.0									
2-Butanone	ND	10									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Acetone	ND	10									
Benzene	ND	1.0									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon disulfide	ND	1.0									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	1.0									
Chloroethane	ND	1.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N022743
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: R170120MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 112976						
Client ID: PBW	Batch ID: R17VW012	TestNo: EPA 8260B		Analysis Date: 1/20/2017	SeqNo: 2539651						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-isopropyl ether	ND	1.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethyl tert-butyl ether	ND	1.0									
Ethylbenzene	ND	1.0									
Freon-113	ND	1.0									
Hexachlorobutadiene	ND	1.0									
Isopropylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	2.0									
MTBE	ND	1.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
Naphthalene	ND	1.0									
o-Xylene	ND	1.0									
sec-Butylbenzene	ND	1.0									
Styrene	ND	1.0									
Tert-amyl methyl ether	ND	1.0									
Tert-Butanol	ND	5.0									
tert-Butylbenzene	ND	1.0									
Tetrachloroethene	ND	1.0									
Toluene	ND	2.0									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
Trichloroethene	ND	1.0									
Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	0.50									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	24.040		25.00		96.2	72	119				

Qualifiers:

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



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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
 Work Order: N022743
 Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

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

Sample ID: N022744-001FMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 112976						
Client ID: ZZZZZ	Batch ID: R17VW012	TestNo: EPA 8260B	Analysis Date: 1/20/2017	SeqNo: 2539653							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	22.320	1.0	20.00	0	112	81	129				
1,1,1-Trichloroethane	19.920	1.0	20.00	0	99.6	67	132				
1,1,2,2-Tetrachloroethane	21.310	1.0	20.00	0	107	63	128				
1,1,2-Trichloroethane	21.260	1.0	20.00	0	106	75	125				
1,1-Dichloroethane	20.190	0.50	20.00	0	101	69	133				
1,1-Dichloroethene	19.810	1.0	20.00	0	99.0	68	130				
1,1-Dichloropropene	20.320	1.0	20.00	0	102	73	132				
1,2,3-Trichlorobenzene	20.530	1.0	20.00	0	103	67	137				
1,2,3-Trichloropropane	20.550	1.0	20.00	0	103	73	124				
1,2,4-Trichlorobenzene	20.400	1.0	20.00	0	102	66	134				
1,2,4-Trimethylbenzene	17.690	1.0	20.00	0	88.4	74	132				
1,2-Dibromo-3-chloropropane	21.700	2.0	20.00	0	108	50	132				
1,2-Dibromoethane	21.180	1.0	20.00	0	106	80	121				
1,2-Dichlorobenzene	21.990	1.0	20.00	0	110	71	122				
1,2-Dichloroethane	20.210	0.50	20.00	0	101	69	132				
1,2-Dichloropropane	20.220	1.0	20.00	0	101	75	125				
1,3,5-Trimethylbenzene	20.300	1.0	20.00	0	102	74	131				
1,3-Dichlorobenzene	21.250	1.0	20.00	0	106	75	124				
1,3-Dichloropropane	21.050	1.0	20.00	0	105	73	126				
1,4-Dichlorobenzene	20.360	1.0	20.00	0	102	74	123				
2,2-Dichloropropane	21.490	1.0	20.00	0	107	69	137				
2-Butanone	112.190	10	200.0	0	56.1	49	136				

Qualifiers:

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



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 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
 Work Order: N022743
 Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N022744-001FMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 112976						
Client ID: ZZZZZZ	Batch ID: R17VW012	TestNo: EPA 8260B		Analysis Date: 1/20/2017	SeqNo: 2539653						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chlorotoluene	20.080	1.0	20.00	0	100	73	126				
4-Chlorotoluene	20.480	1.0	20.00	0	102	74	128				
4-Isopropyltoluene	20.410	1.0	20.00	0	102	73	130				
4-Methyl-2-pentanone	213.500	10	200.0	0	107	58	134				
Acetone	85.370	10	200.0	0	42.7	40	135				
Benzene	19.930	1.0	20.00	0	99.7	81	122				
Bromobenzene	20.560	1.0	20.00	0	103	76	124				
Bromochloromethane	21.480	1.0	20.00	0	107	65	129				
Bromodichloromethane	21.350	1.0	20.00	0	107	76	121				
Bromoform	26.640	1.0	20.00	0	133	69	128				S
Bromomethane	21.910	1.0	20.00	0	110	53	141				
Carbon disulfide	22.060	1.0	20.00	0	110	75	125				
Carbon tetrachloride	22.420	0.50	20.00	0	112	66	138				
Chlorobenzene	20.540	1.0	20.00	0	103	81	122				
Chloroethane	28.010	1.0	20.00	0	140	58	133				S
Chloroform	19.310	1.0	20.00	0	96.6	69	128				
Chloromethane	16.890	1.0	20.00	0	84.4	56	131				
cis-1,2-Dichloroethene	22.320	1.0	20.00	0	112	72	126				
cis-1,3-Dichloropropene	21.460	1.0	20.00	0	107	69	131				
Di-isopropyl ether	19.670	1.0	20.00	0	98.4	70	130				
Dibromochloromethane	23.270	1.0	20.00	0	116	66	133				
Dibromomethane	20.910	1.0	20.00	0	105	76	125				
Dichlorodifluoromethane	19.220	1.0	20.00	0	96.1	53	153				
Ethyl tert-butyl ether	23.220	1.0	20.00	0	116	70	130				
Ethylbenzene	20.310	1.0	20.00	0	102	73	127				
Freon-113	19.990	1.0	20.00	0	100	75	125				
Hexachlorobutadiene	21.320	1.0	20.00	0	107	67	131				
Isopropylbenzene	20.330	1.0	20.00	0	102	75	127				
m,p-Xylene	40.730	1.0	40.00	0	102	76	128				
Methylene chloride	18.480	2.0	20.00	0	92.4	63	137				

Qualifiers:

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



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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022743
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N022744-001FMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 112976						
Client ID: ZZZZZ	Batch ID: R17VW012	TestNo: EPA 8260B		Analysis Date: 1/20/2017	SeqNo: 2539653						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	20.320	1.0	20.00	0	102	65	123				
n-Butylbenzene	20.400	1.0	20.00	0	102	69	137				
n-Propylbenzene	20.440	1.0	20.00	0	102	72	129				
Naphthalene	17.190	1.0	20.00	0	86.0	54	138				
o-Xylene	20.280	1.0	20.00	0	101	80	121				
sec-Butylbenzene	20.650	1.0	20.00	0	103	72	127				
Styrene	13.330	1.0	20.00	0	66.7	65	134				
Tert-amyl methyl ether	19.840	1.0	20.00	0	99.2	70	130				
Tert-Butanol	119.120	5.0	100.0	0	119	70	130				
tert-Butylbenzene	20.390	1.0	20.00	0	102	70	129				
Tetrachloroethene	21.370	1.0	20.00	0	107	66	128				
Toluene	19.530	2.0	20.00	0	97.6	77	122				
trans-1,2-Dichloroethene	19.720	1.0	20.00	0	98.6	63	137				
trans-1,3-Dichloropropene	22.100	1.0	20.00	0	110	59	135				
Trichloroethene	20.560	1.0	20.00	0	103	70	127				
Trichlorofluoromethane	20.320	1.0	20.00	0	102	57	129				
Vinyl chloride	18.340	0.50	20.00	0	91.7	50	134				
Xylenes, Total	61.010	2.0	60.00	0	102	75	125				
Surr: 1,2-Dichloroethane-d4	24.180		25.00		96.7	72	119				
Surr: 4-Bromofluorobenzene	25.740		25.00		103	76	119				
Surr: Dibromofluoromethane	25.060		25.00		100	85	115				
Surr: Toluene-d8	25.560		25.00		102	81	120				

Sample ID: N022744-001FMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 112976						
Client ID: ZZZZZ	Batch ID: R17VW012	TestNo: EPA 8260B		Analysis Date: 1/20/2017	SeqNo: 2539654						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	22.820	1.0	20.00	0	114	81	129	22.32	2.22	20	
1,1,1-Trichloroethane	20.830	1.0	20.00	0	104	67	132	19.92	4.47	20	
1,1,2,2-Tetrachloroethane	21.450	1.0	20.00	0	107	63	128	21.31	0.655	20	

Qualifiers:

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



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ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
 Work Order: N022743
 Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N022744-001FMSD		SampType: MSD		TestCode: 8260_WP_SF			Units: ug/L			Prep Date:		RunNo: 112976	
Client ID: ZZZZZZ		Batch ID: R17VW012		TestNo: EPA 8260B			Analysis Date: 1/20/2017			SeqNo: 2539654			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
1,1,2-Trichloroethane	21.510	1.0	20.00	0	108	75	125	21.26	1.17	20			
1,1-Dichloroethane	20.450	0.50	20.00	0	102	69	133	20.19	1.28	20			
1,1-Dichloroethene	19.500	1.0	20.00	0	97.5	68	130	19.81	1.58	20			
1,1-Dichloropropene	21.600	1.0	20.00	0	108	73	132	20.32	6.11	20			
1,2,3-Trichlorobenzene	20.680	1.0	20.00	0	103	67	137	20.53	0.728	20			
1,2,3-Trichloropropane	20.960	1.0	20.00	0	105	73	124	20.55	1.98	20			
1,2,4-Trichlorobenzene	20.640	1.0	20.00	0	103	66	134	20.40	1.17	20			
1,2,4-Trimethylbenzene	14.220	1.0	20.00	0	71.1	74	132	17.69	21.7	20	SR		
1,2-Dibromo-3-chloropropane	20.960	2.0	20.00	0	105	50	132	21.70	3.47	20			
1,2-Dibromoethane	21.870	1.0	20.00	0	109	80	121	21.18	3.21	20			
1,2-Dichlorobenzene	22.700	1.0	20.00	0	114	71	122	21.99	3.18	20			
1,2-Dichloroethane	20.780	0.50	20.00	0	104	69	132	20.21	2.78	20			
1,2-Dichloropropane	20.930	1.0	20.00	0	105	75	125	20.22	3.45	20			
1,3,5-Trimethylbenzene	20.230	1.0	20.00	0	101	74	131	20.30	0.345	20			
1,3-Dichlorobenzene	22.000	1.0	20.00	0	110	75	124	21.25	3.47	20			
1,3-Dichloropropane	21.480	1.0	20.00	0	107	73	126	21.05	2.02	20			
1,4-Dichlorobenzene	21.260	1.0	20.00	0	106	74	123	20.36	4.32	20			
2,2-Dichloropropane	20.460	1.0	20.00	0	102	69	137	21.49	4.91	20			
2-Butanone	100.980	10	200.0	0	50.5	49	136	112.2	10.5	20			
2-Chlorotoluene	21.190	1.0	20.00	0	106	73	126	20.08	5.38	20			
4-Chlorotoluene	21.380	1.0	20.00	0	107	74	128	20.48	4.30	20			
4-Isopropyltoluene	21.380	1.0	20.00	0	107	73	130	20.41	4.64	20			
4-Methyl-2-pentanone	208.860	10	200.0	0	104	58	134	213.5	2.20	20			
Acetone	73.150	10	200.0	0	36.6	40	135	85.37	15.4	20	S		
Benzene	21.170	1.0	20.00	0	106	81	122	19.93	6.03	20			
Bromobenzene	21.690	1.0	20.00	0	108	76	124	20.56	5.35	20			
Bromochloromethane	19.840	1.0	20.00	0	99.2	65	129	21.48	7.94	20			
Bromodichloromethane	21.890	1.0	20.00	0	109	76	121	21.35	2.50	20			
Bromoform	26.860	1.0	20.00	0	134	69	128	26.64	0.822	20	S		
Bromomethane	21.070	1.0	20.00	0	105	53	141	21.91	3.91	20			

Qualifiers:

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CLIENT: CH2MHill
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ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N022744-001FMSD		SampType: MSD		TestCode: 8260_WP_SF		Units: ug/L		Prep Date:		RunNo: 112976	
Client ID: ZZZZZZ		Batch ID: R17VW012		TestNo: EPA 8260B		Analysis Date: 1/20/2017		SeqNo: 2539654			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	22.600	1.0	20.00	0	113	75	125	22.06	2.42	20	
Carbon tetrachloride	24.090	0.50	20.00	0	120	66	138	22.42	7.18	20	
Chlorobenzene	21.270	1.0	20.00	0	106	81	122	20.54	3.49	20	
Chloroethane	22.360	1.0	20.00	0	112	58	133	28.01	22.4	20	R
Chloroform	19.220	1.0	20.00	0	96.1	69	128	19.31	0.467	20	
Chloromethane	17.080	1.0	20.00	0	85.4	56	131	16.89	1.12	20	
cis-1,2-Dichloroethene	21.430	1.0	20.00	0	107	72	126	22.32	4.07	20	
cis-1,3-Dichloropropene	22.140	1.0	20.00	0	111	69	131	21.46	3.12	20	
Di-isopropyl ether	20.050	1.0	20.00	0	100	70	130	19.67	1.91	20	
Dibromochloromethane	23.480	1.0	20.00	0	117	66	133	23.27	0.898	20	
Dibromomethane	21.590	1.0	20.00	0	108	76	125	20.91	3.20	20	
Dichlorodifluoromethane	20.580	1.0	20.00	0	103	53	153	19.22	6.83	20	
Ethyl tert-butyl ether	20.290	1.0	20.00	0	101	70	130	23.22	13.5	20	
Ethylbenzene	21.410	1.0	20.00	0	107	73	127	20.31	5.27	20	
Freon-113	22.050	1.0	20.00	0	110	75	125	19.99	9.80	20	
Hexachlorobutadiene	22.320	1.0	20.00	0	112	67	131	21.32	4.58	20	
Isopropylbenzene	22.000	1.0	20.00	0	110	75	127	20.33	7.89	20	
m,p-Xylene	41.520	1.0	40.00	0	104	76	128	40.73	1.92	20	
Methylene chloride	18.320	2.0	20.00	0	91.6	63	137	18.48	0.870	20	
MTBE	20.230	1.0	20.00	0	101	65	123	20.32	0.444	20	
n-Butylbenzene	21.570	1.0	20.00	0	108	69	137	20.40	5.58	20	
n-Propylbenzene	21.790	1.0	20.00	0	109	72	129	20.44	6.39	20	
Naphthalene	14.090	1.0	20.00	0	70.4	54	138	17.19	19.8	20	
o-Xylene	21.320	1.0	20.00	0	107	80	121	20.28	5.00	20	
sec-Butylbenzene	22.390	1.0	20.00	0	112	72	127	20.65	8.09	20	
Styrene	8.190	1.0	20.00	0	41.0	65	134	13.33	47.8	20	SR
Tert-amyl methyl ether	20.910	1.0	20.00	0	105	70	130	19.84	5.25	20	
Tert-Butanol	100.170	5.0	100.0	0	100	70	130	119.1	17.3	20	
tert-Butylbenzene	22.020	1.0	20.00	0	110	70	129	20.39	7.69	20	
Tetrachloroethene	22.880	1.0	20.00	0	114	66	128	21.37	6.82	20	

Qualifiers:

- | | | |
|--|--|--|
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CLIENT: CH2MHill
Work Order: N022743
Project: SFPP-Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N022744-001FMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 112976						
Client ID: ZZZZZZ	Batch ID: R17VW012	TestNo: EPA 8260B		Analysis Date: 1/20/2017	SeqNo: 2539654						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	20.760	2.0	20.00	0	104	77	122	19.53	6.11	20	
trans-1,2-Dichloroethene	19.430	1.0	20.00	0	97.2	63	137	19.72	1.48	20	
trans-1,3-Dichloropropene	23.120	1.0	20.00	0	116	59	135	22.10	4.51	20	
Trichloroethene	21.420	1.0	20.00	0	107	70	127	20.56	4.10	20	
Trichlorofluoromethane	20.980	1.0	20.00	0	105	57	129	20.32	3.20	20	
Vinyl chloride	18.780	0.50	20.00	0	93.9	50	134	18.34	2.37	20	
Xylenes, Total	62.840	2.0	60.00	0	105	75	125	61.01	2.96	20	
Surr: 1,2-Dichloroethane-d4	22.750		25.00		91.0	72	119		0		
Surr: 4-Bromofluorobenzene	25.470		25.00		102	76	119		0		
Surr: Dibromofluoromethane	23.480		25.00		93.9	85	115		0		
Surr: Toluene-d8	25.260		25.00		101	81	120		0		

Qualifiers:

- | | | |
|--|--|--|
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N0227453/1-24

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

CHAIN OF CUSTODY RECORD

DATE: 1/19/17
 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 Address: 1100 Town & Country Road Orange, CA 92868 Email To: Steve Defibaugh@kindermorgan.com marlon.cartin@atl-labs.com Phone: 714-560-4802 Fax: 714-560-4801		Report To: Dan Jablonski Copy To: Steve Defibaugh Purchase Order No.: Project Name: SFPP Norwalk		Attention: Steve Defibaugh - Ref. APE# 81195 Company: Kinder Morgan Energy Partners Name: Address: 1100 Town & Country Road Orange, CA 92868 ATL Project: Marlon Cartin Manager:		Sampler Name: James Dye Name: Signature: Sample Date: 1/19/17	

ITEM #	SAMPLE ID	LOCATION/ DESCRIPTION	MATRIX	SAMPLE TYPE (G=GRAB C=COMP)	SAMPLING		TOTAL # OF CONTAINERS	SAMPLE TEMPERATURE (°F)	Analysis Test	CONTAINER TYPE		# OF CONTAINERS	PRESERVATIVE	VOLUME (mL)	COMMENTS
					DATE	TIME				Full VOCs + Organometals List (6020B)	TPH-g, TPH-d, and TPH-oil (8015B)				
1	INF-01-19	INFLUENT	WW	G	1/19/17	9:20	8	70	X	X					
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															

Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date / Time: 1/19/17 1000	Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date / Time: 1/19/17 1600	Turn Around Time (TAT): <input type="checkbox"/> A = Same Day <input type="checkbox"/> B = 24 Hours <input type="checkbox"/> C = 48 Hours <input type="checkbox"/> D = 72 Hours <input checked="" type="checkbox"/> E = 5 Workdays <input type="checkbox"/> F = 10 Workdays TAT Starts at 8 AM the following day if samples received after 3:00 PM.	Special Instruction: 2.8°C SR # 2
Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date / Time: 1/19/17 1040	Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date / Time: 1/20/17 8:05 am		
Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date / Time: 1/20/17 630 # 8740			

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

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

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

Cooler Received/Opened On: 1/19/2017 Workorder: N022743
 Rep sample Temp (Deg C): 2.8 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 8740 Packing Material Used: Bubble Wrap
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|--|--|--|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input type="checkbox"/> | No <input checked="" 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 checked="" type="checkbox"/> | <i>MBC</i> |
| 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 type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" 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 checked="" type="checkbox"/>
Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>
No <input type="checkbox"/> | NA <input type="checkbox"/>
NA <input type="checkbox"/> |

Comments: Sampling time is 9:20 on COC and 9:00 on sample labels.

Checklist Completed By: YR *YR* 1/21/2017

Reviewed By: *MBC* 1/23/2017

ASSET Laboratories

WORK ORDER Summary

19-Jan-17

WorkOrder: N022743

Client ID: CH2HI03

Project: SFPP-Norwalk

QC Level: RTNE

Date Received: 1/19/2017

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N022743-001A	INF-01-19	1/19/2017 9:20:00 AM	1/26/2017	Wastewater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
			1/26/2017		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N022743-001B			1/26/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2017		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			1/26/2017		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N022743-002A	FOLDER		1/26/2017		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

Marlon B. Cartin

From: Vidal.Cortes@ch2m.com
Sent: Monday, January 23, 2017 12:38 PM
To: marlon@assetlaboratories.com
Subject: RE: SFPP-Norwalk (Asset Lab No. N022743)

I'm assuming he collected the effluent at 9:00. So go with 9:20 for influent.

Thanks,

Vidal

-----Original Message-----

From: Marlon B. Cartin [mailto:marlon@assetlaboratories.com]
Sent: Monday, January 23, 2017 12:33 PM
To: Cortes, Vidal/SCO <Vidal.Cortes@ch2m.com>
Subject: FW: SFPP-Norwalk (Asset Lab No. N022743) [EXTERNAL]

Hi Vidal,

Please advise sampling time concern below.

Thanks,

Marlon B. Cartin
Project Manager
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 Ext. 410 | F: 702.307.2691 | M: 702.439.0421

-----Original Message-----

From: Yoandra Rodriguez [mailto:yoandra@assetlaboratories.com]
Sent: Saturday, January 21, 2017 12:53 PM
To: 'Marlon B. Cartin'
Cc: Fernando Rivera; Hanah Glodoviza
Subject: SFPP-Norwalk (Asset Lab No. N022743)

Hi Marlon,

We found the following discrepancy for the attached COC:

- Sampling time is 9:20 on COC and 9:00 on sample labels.

Please advise.

Thanks,

Yoandra Rodriguez
Sample Control Officer
California: 11110 Artesia Blvd., Ste. B, Cerritos, CA 90703 | P:
562.219.7435 | F: 562.219.7436
Nevada: 3151 W. Post Road, Las Vegas, NV 89118 | P: 702.307.2659 Ext. 411 | F: 702.307.2691 |
www.assetlaboratories.com

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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 #: 534748740

CPS



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

LVS
LAS VEGAS

A

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

C89102A

Delivery Instructions:
HOLD FOR PICK UP
Signature Type: REQUIRED



61792250

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

Package 2 of 4

LABEL INSTRUCTIONS:

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

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

2-8°C
1E#2

February 10, 2017

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

TEL:

FAX:

Workorder No.: N022963

RE: SFPP Norwalk


Attention: Dan Jablonski

Enclosed are the results for sample(s) received on February 03, 2017 by ASSET Laboratories .
The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in
accordance with the applicable laboratory certifications.

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

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

Sincerely,

 for

Puri Romualdo
Laboratory Director

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



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CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N022963

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

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

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

Samples were analyzed within method holding time.

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

Analytical Comments for EPA 8260B:

Laboratory Control Sample (LCS) recovery biased high for Trichlorofluoromethane. Sample results were non-detect (ND) for this analyte therefore reanalysis of the samples was not necessary.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes in QC samples N022846-011D-MS and N022846-011D-MSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.



CLIENT: CH2MHill
Project: SFPP Norwalk
Lab Order: N022963
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N022963-001A	INF-02-03	Wastewater	2/3/2017 12:55:00 PM	2/3/2017	2/10/2017
N022963-001B	INF-02-03	Wastewater	2/3/2017 12:55:00 PM	2/3/2017	2/10/2017



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 10-Feb-17

CLIENT: CH2MHill
Lab Order: N022963
Project: SFPP Norwalk
Lab ID: N022963-001

Client Sample ID: INF-02-03
Collection Date: 2/3/2017 12:55:00 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:	QC Batch:	PrepDate:	Analyst:			
NV00922-MS5_170207A	P17VW016		LY			
1,1,1,2-Tetrachloroethane	ND	0.089	1.0	ug/L	1	2/7/2017 04:00 PM
1,1,1-Trichloroethane	ND	0.15	1.0	ug/L	1	2/7/2017 04:00 PM
1,1,2,2-Tetrachloroethane	ND	0.14	1.0	ug/L	1	2/7/2017 04:00 PM
1,1,2-Trichloroethane	ND	0.15	1.0	ug/L	1	2/7/2017 04:00 PM
1,1-Dichloroethane	ND	0.13	0.50	ug/L	1	2/7/2017 04:00 PM
1,1-Dichloroethene	ND	0.15	1.0	ug/L	1	2/7/2017 04:00 PM
1,1-Dichloropropene	ND	0.12	1.0	ug/L	1	2/7/2017 04:00 PM
1,2,3-Trichlorobenzene	ND	0.16	1.0	ug/L	1	2/7/2017 04:00 PM
1,2,3-Trichloropropane	ND	0.097	1.0	ug/L	1	2/7/2017 04:00 PM
1,2,4-Trichlorobenzene	ND	0.13	1.0	ug/L	1	2/7/2017 04:00 PM
1,2,4-Trimethylbenzene	8.9	0.094	1.0	ug/L	1	2/7/2017 04:00 PM
1,2-Dibromo-3-chloropropane	ND	0.36	2.0	ug/L	1	2/7/2017 04:00 PM
1,2-Dibromoethane	ND	0.18	1.0	ug/L	1	2/7/2017 04:00 PM
1,2-Dichlorobenzene	ND	0.14	1.0	ug/L	1	2/7/2017 04:00 PM
1,2-Dichloroethane	ND	0.13	0.50	ug/L	1	2/7/2017 04:00 PM
1,2-Dichloropropane	ND	0.14	1.0	ug/L	1	2/7/2017 04:00 PM
1,3,5-Trimethylbenzene	4.1	0.11	1.0	ug/L	1	2/7/2017 04:00 PM
1,3-Dichlorobenzene	ND	0.11	1.0	ug/L	1	2/7/2017 04:00 PM
1,3-Dichloropropane	ND	0.13	1.0	ug/L	1	2/7/2017 04:00 PM
1,4-Dichlorobenzene	ND	0.13	1.0	ug/L	1	2/7/2017 04:00 PM
2,2-Dichloropropane	ND	0.16	1.0	ug/L	1	2/7/2017 04:00 PM
2-Butanone	ND	1.9	10	ug/L	1	2/7/2017 04:00 PM
2-Chlorotoluene	ND	0.14	1.0	ug/L	1	2/7/2017 04:00 PM
4-Chlorotoluene	ND	0.14	1.0	ug/L	1	2/7/2017 04:00 PM
4-Isopropyltoluene	ND	0.13	1.0	ug/L	1	2/7/2017 04:00 PM
4-Methyl-2-pentanone	ND	1.4	10	ug/L	1	2/7/2017 04:00 PM
Acetone	ND	4.3	10	ug/L	1	2/7/2017 04:00 PM
Benzene	4.2	0.14	1.0	ug/L	1	2/7/2017 04:00 PM
Bromobenzene	ND	0.13	1.0	ug/L	1	2/7/2017 04:00 PM
Bromochloromethane	ND	0.15	1.0	ug/L	1	2/7/2017 04:00 PM
Bromodichloromethane	ND	0.10	1.0	ug/L	1	2/7/2017 04:00 PM
Bromoform	ND	0.34	1.0	ug/L	1	2/7/2017 04:00 PM
Bromomethane	ND	0.12	1.0	ug/L	1	2/7/2017 04:00 PM
Carbon disulfide	ND	0.14	1.0	ug/L	1	2/7/2017 04:00 PM
Carbon tetrachloride	ND	0.13	0.50	ug/L	1	2/7/2017 04:00 PM
Chlorobenzene	ND	0.13	1.0	ug/L	1	2/7/2017 04:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified

E Value above quantitation range
J Analyte detected below quantitation limits
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 10-Feb-17

CLIENT: CH2MHill
Lab Order: N022963
Project: SFPP Norwalk
Lab ID: N022963-001

Client Sample ID: INF-02-03
Collection Date: 2/3/2017 12:55:00 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:	QC Batch:	PrepDate:	Analyst:
NV00922-MS5_170207A	P17VW016		LY
Chloroethane	ND 0.19	1.0	ug/L 1 2/7/2017 04:00 PM
Chloroform	ND 0.18	1.0	ug/L 1 2/7/2017 04:00 PM
Chloromethane	ND 0.22	1.0	ug/L 1 2/7/2017 04:00 PM
cis-1,2-Dichloroethene	ND 0.20	1.0	ug/L 1 2/7/2017 04:00 PM
cis-1,3-Dichloropropene	ND 0.14	1.0	ug/L 1 2/7/2017 04:00 PM
Di-isopropyl ether	5.1 0.18	1.0	ug/L 1 2/7/2017 04:00 PM
Dibromochloromethane	ND 0.12	1.0	ug/L 1 2/7/2017 04:00 PM
Dibromomethane	ND 0.12	1.0	ug/L 1 2/7/2017 04:00 PM
Dichlorodifluoromethane	ND 0.17	1.0	ug/L 1 2/7/2017 04:00 PM
Ethyl tert-butyl ether	ND 0.15	1.0	ug/L 1 2/7/2017 04:00 PM
Ethylbenzene	0.89 0.14	1.0	J ug/L 1 2/7/2017 04:00 PM
Freon-113	ND 0.19	1.0	ug/L 1 2/7/2017 04:00 PM
Hexachlorobutadiene	ND 0.15	1.0	ug/L 1 2/7/2017 04:00 PM
Isopropylbenzene	0.28 0.11	1.0	J ug/L 1 2/7/2017 04:00 PM
m,p-Xylene	19 0.23	1.0	ug/L 1 2/7/2017 04:00 PM
Methylene chloride	ND 0.26	2.0	ug/L 1 2/7/2017 04:00 PM
MTBE	3.5 0.13	1.0	ug/L 1 2/7/2017 04:00 PM
n-Butylbenzene	ND 0.15	1.0	ug/L 1 2/7/2017 04:00 PM
n-Propylbenzene	0.29 0.16	1.0	J ug/L 1 2/7/2017 04:00 PM
Naphthalene	2.8 0.094	1.0	ug/L 1 2/7/2017 04:00 PM
o-Xylene	12 0.13	1.0	ug/L 1 2/7/2017 04:00 PM
sec-Butylbenzene	ND 0.12	1.0	ug/L 1 2/7/2017 04:00 PM
Styrene	ND 0.14	1.0	ug/L 1 2/7/2017 04:00 PM
Tert-amyl methyl ether	ND 0.12	1.0	ug/L 1 2/7/2017 04:00 PM
Tert-Butanol	1700 18	100	ug/L 10 2/7/2017 01:10 PM
tert-Butylbenzene	ND 0.11	1.0	ug/L 1 2/7/2017 04:00 PM
Tetrachloroethene	ND 0.13	1.0	ug/L 1 2/7/2017 04:00 PM
Toluene	3.5 0.14	2.0	ug/L 1 2/7/2017 04:00 PM
trans-1,2-Dichloroethene	ND 0.20	1.0	ug/L 1 2/7/2017 04:00 PM
trans-1,3-Dichloropropene	ND 0.13	1.0	ug/L 1 2/7/2017 04:00 PM
Trichloroethene	ND 0.14	1.0	ug/L 1 2/7/2017 04:00 PM
Trichlorofluoromethane	ND 0.13	1.0	ug/L 1 2/7/2017 04:00 PM
Vinyl chloride	ND 0.15	0.50	ug/L 1 2/7/2017 04:00 PM
Xylenes, Total	30 1.5	2.0	ug/L 1 2/7/2017 04:00 PM
Surr: 1,2-Dichloroethane-d4	98.2 0	72-119	%REC 10 2/7/2017 01:10 PM
Surr: 1,2-Dichloroethane-d4	90.3 0	72-119	%REC 1 2/7/2017 04:00 PM

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



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ANALYTICAL RESULTS

Print Date: 10-Feb-17

ASSET Laboratories

CLIENT: CH2MHill
Lab Order: N022963
Project: SFPP Norwalk
Lab ID: N022963-001

Client Sample ID: INF-02-03
Collection Date: 2/3/2017 12:55:00 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: NV00922-MS5_170207A	QC Batch: P17VW016	PrepDate:	Analyst: LY
Surr: 4-Bromofluorobenzene	99.5	0	76-119
Surr: 4-Bromofluorobenzene	98.6	0	76-119
Surr: Dibromofluoromethane	94.2	0	85-115
Surr: Dibromofluoromethane	96.2	0	85-115
Surr: Toluene-d8	100	0	81-120
Surr: Toluene-d8	97.0	0	81-120

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID: NV00922-GC3_170206A	QC Batch: 61167	PrepDate: 2/6/2017	Analyst: FJ
TPH-Diesel (C13-C22)	490	15	25
TPH-Oil (C23-C36)	170	14	25
Surr: Octacosane	76.5	0	26-152
Surr: p-Terphenyl	73.9	0	57-132

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: NV00922-GC4_170205A	QC Batch: E17VW014	PrepDate:	Analyst: RB
TPH-Gasoline (C4-C12)	390	16	50
Surr: Chlorobenzene - d5	123	0	74-138

TOTAL TPH

EPA 8015B

RunID: NV00922-GC3_170206A	QC Batch: R113301	PrepDate:	Analyst: FJ
Total TPH	1000	16	100

<p>Qualifiers: B Analyte detected in the associated Method Blank</p> <p>H Holding times for preparation or analysis exceeded</p> <p>ND Not Detected at the Reporting Limit</p> <p>Results are wet unless otherwise specified</p>	<p>E Value above quantitation range</p> <p>J Analyte detected below quantitation limits</p> <p>S Spike/Surrogate outside of limits due to matrix interference</p> <p>DO Surrogate Diluted Out</p>
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CLIENT: CH2MHill
Work Order: N022963
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-61167	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 2/6/2017	RunNo: 113301						
Client ID: PBW	Batch ID: 61167	TestNo: EPA 8015B EPA 3510C		Analysis Date: 2/6/2017	SeqNo: 2556157						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	25									
TPH-Oil (C23-C36)	19.843	25									J
Surr: Octacosane	60.412		80.00		75.5	26	152				
Surr: p-Terphenyl	60.454		80.00		75.6	57	132				

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N022963
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

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

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N022963
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPF

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

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

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

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

Qualifiers:

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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 | DO Surrogate Diluted Out | Calculations are based on raw values |



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE ENERGY AND PETROLEUM INDUSTRIES

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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022963
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170207LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113352						
Client ID: LCSW	Batch ID: P17VW016	TestNo: EPA 8260B		Analysis Date: 2/7/2017	SeqNo: 2558701						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.980	1.0	20.00	0	99.9	81	129				
1,1,1-Trichloroethane	20.560	1.0	20.00	0	103	67	132				
1,1,2,2-Tetrachloroethane	20.510	1.0	20.00	0	103	63	128				
1,1,2-Trichloroethane	19.760	1.0	20.00	0	98.8	75	125				
1,1-Dichloroethane	20.070	0.50	20.00	0	100	69	133				
1,1-Dichloroethene	22.890	1.0	20.00	0	114	68	130				
1,1-Dichloropropene	24.510	1.0	20.00	0	123	73	132				
1,2,3-Trichlorobenzene	17.200	1.0	20.00	0	86.0	67	137				
1,2,3-Trichloropropane	20.300	1.0	20.00	0	102	73	124				
1,2,4-Trichlorobenzene	17.180	1.0	20.00	0	85.9	66	134				
1,2,4-Trimethylbenzene	22.180	1.0	20.00	0	111	74	132				
1,2-Dibromo-3-chloropropane	18.670	2.0	20.00	0	93.4	50	132				
1,2-Dibromoethane	20.150	1.0	20.00	0	101	80	121				
1,2-Dichlorobenzene	22.350	1.0	20.00	0	112	71	122				
1,2-Dichloroethane	20.210	0.50	20.00	0	101	69	132				
1,2-Dichloropropane	21.070	1.0	20.00	0	105	75	125				
1,3,5-Trimethylbenzene	22.660	1.0	20.00	0	113	74	131				
1,3-Dichlorobenzene	21.800	1.0	20.00	0	109	75	124				
1,3-Dichloropropane	21.970	1.0	20.00	0	110	73	126				
1,4-Dichlorobenzene	21.780	1.0	20.00	0	109	74	123				
2,2-Dichloropropane	17.460	1.0	20.00	0	87.3	69	137				
2-Butanone	160.820	10	200.0	0	80.4	49	136				
2-Chlorotoluene	21.300	1.0	20.00	0	106	73	126				
4-Chlorotoluene	21.500	1.0	20.00	0	108	74	128				
4-Isopropyltoluene	24.060	1.0	20.00	0	120	73	130				
4-Methyl-2-pentanone	176.930	10	200.0	0	88.5	58	134				
Acetone	178.520	10	200.0	0	89.3	40	135				
Benzene	21.290	1.0	20.00	0	106	81	122				
Bromobenzene	20.350	1.0	20.00	0	102	76	124				
Bromochloromethane	19.840	1.0	20.00	0	99.2	65	129				

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 | DO Surrogate Diluted Out | Calculations are based on raw values |



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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022963
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170207LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113352						
Client ID: LCSW	Batch ID: P17VW016	TestNo: EPA 8260B		Analysis Date: 2/7/2017	SeqNo: 2558701						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	19.950	1.0	20.00	0	99.8	76	121				
Bromoform	21.390	1.0	20.00	0	107	69	128				
Bromomethane	21.710	1.0	20.00	0	109	53	141				
Carbon disulfide	17.870	1.0	20.00	0	89.4	75	125				
Carbon tetrachloride	20.990	0.50	20.00	0	105	66	138				
Chlorobenzene	22.780	1.0	20.00	0	114	81	122				
Chloroethane	25.800	1.0	20.00	0	129	58	133				
Chloroform	19.510	1.0	20.00	0	97.6	69	128				
Chloromethane	21.830	1.0	20.00	0	109	56	131				
cis-1,2-Dichloroethene	19.900	1.0	20.00	0	99.5	72	126				
cis-1,3-Dichloropropene	19.600	1.0	20.00	0	98.0	69	131				
Di-isopropyl ether	17.290	1.0	20.00	0	86.5	70	130				
Dibromochloromethane	21.140	1.0	20.00	0	106	66	133				
Dibromomethane	20.280	1.0	20.00	0	101	76	125				
Dichlorodifluoromethane	27.880	1.0	20.00	0	139	53	153				
Ethyl tert-butyl ether	16.560	1.0	20.00	0	82.8	70	130				
Ethylbenzene	23.030	1.0	20.00	0	115	73	127				
Freon-113	18.790	1.0	20.00	0	94.0	75	125				
Hexachlorobutadiene	23.520	1.0	20.00	0	118	67	131				
Isopropylbenzene	18.970	1.0	20.00	0	94.8	75	127				
m,p-Xylene	45.380	1.0	40.00	0	113	76	128				
Methylene chloride	20.930	2.0	20.00	0	105	63	137				
MTBE	17.310	1.0	20.00	0	86.6	65	123				
n-Butylbenzene	21.080	1.0	20.00	0	105	69	137				
n-Propylbenzene	23.280	1.0	20.00	0	116	72	129				
Naphthalene	17.990	1.0	20.00	0	90.0	54	138				
o-Xylene	22.330	1.0	20.00	0	112	80	121				
sec-Butylbenzene	23.940	1.0	20.00	0	120	72	127				
Styrene	21.950	1.0	20.00	0	110	65	134				
Tert-amyl methyl ether	17.170	1.0	20.00	0	85.9	70	130				

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 | DO Surrogate Diluted Out | Calculations are based on raw values |



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE ENVIRONMENT, ENERGY & CHEMICALS

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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022963
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170207LCS		SampType: LCS		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 113352			
Client ID: LCSW		Batch ID: P17VW016		TestNo: EPA 8260B		Analysis Date: 2/7/2017		SeqNo: 2558701			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
tert-Butylbenzene	23.350	1.0	20.00	0	117	70	129				
Tetrachloroethene	25.110	1.0	20.00	0	126	66	128				
Toluene	20.710	2.0	20.00	0	104	77	122				
trans-1,2-Dichloroethene	21.220	1.0	20.00	0	106	63	137				
trans-1,3-Dichloropropene	18.410	1.0	20.00	0	92.0	59	135				
Trichloroethene	22.710	1.0	20.00	0	114	70	127				
Trichlorofluoromethane	26.120	1.0	20.00	0	131	57	129				S
Vinyl chloride	22.460	0.50	20.00	0	112	50	134				
Xylenes, Total	67.710	2.0	60.00	0	113	75	125				
Surr: 1,2-Dichloroethane-d4	24.300		25.00		97.2	72	119				
Surr: 4-Bromofluorobenzene	25.640		25.00		103	76	119				
Surr: Dibromofluoromethane	24.850		25.00		99.4	85	115				
Surr: Toluene-d8	25.330		25.00		101	81	120				

Sample ID: P170207LCSD		SampType: LCSD		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 113352			
Client ID: LCSS02		Batch ID: P17VW016		TestNo: EPA 8260B		Analysis Date: 2/7/2017		SeqNo: 2558702			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.400	1.0	20.00	0	97.0	81	129	19.98	2.95	20	
1,1,1-Trichloroethane	19.560	1.0	20.00	0	97.8	67	132	20.56	4.99	20	
1,1,2,2-Tetrachloroethane	19.480	1.0	20.00	0	97.4	63	128	20.51	5.15	20	
1,1,2-Trichloroethane	19.410	1.0	20.00	0	97.0	75	125	19.76	1.79	20	
1,1-Dichloroethane	19.390	0.50	20.00	0	97.0	69	133	20.07	3.45	20	
1,1-Dichloroethene	21.750	1.0	20.00	0	109	68	130	22.89	5.11	20	
1,1-Dichloropropene	22.790	1.0	20.00	0	114	73	132	24.51	7.27	20	
1,2,3-Trichlorobenzene	19.220	1.0	20.00	0	96.1	67	137	17.20	11.1	20	
1,2,3-Trichloropropane	19.500	1.0	20.00	0	97.5	73	124	20.30	4.02	20	
1,2,4-Trichlorobenzene	19.050	1.0	20.00	0	95.2	66	134	17.18	10.3	20	
1,2,4-Trimethylbenzene	21.080	1.0	20.00	0	105	74	132	22.18	5.09	20	
1,2-Dibromo-3-chloropropane	17.140	2.0	20.00	0	85.7	50	132	18.67	8.55	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 | DO Surrogate Diluted Out | Calculations are based on raw values |



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE ENVIRONMENT, ENERGY & CHEMICALS

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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
 Work Order: N022963
 Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170207LCSD		SampType: LCSD		TestCode: 8260_WP_SF Units: ug/L			Prep Date:			RunNo: 113352		
Client ID: LCSS02		Batch ID: P17VW016		TestNo: EPA 8260B			Analysis Date: 2/7/2017			SeqNo: 2558702		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,2-Dibromoethane	19.760	1.0	20.00	0	98.8	80	121	20.15	1.95	20		
1,2-Dichlorobenzene	21.230	1.0	20.00	0	106	71	122	22.35	5.14	20		
1,2-Dichloroethane	19.690	0.50	20.00	0	98.4	69	132	20.21	2.61	20		
1,2-Dichloropropane	20.410	1.0	20.00	0	102	75	125	21.07	3.18	20		
1,3,5-Trimethylbenzene	21.130	1.0	20.00	0	106	74	131	22.66	6.99	20		
1,3-Dichlorobenzene	20.950	1.0	20.00	0	105	75	124	21.80	3.98	20		
1,3-Dichloropropane	20.890	1.0	20.00	0	104	73	126	21.97	5.04	20		
1,4-Dichlorobenzene	21.240	1.0	20.00	0	106	74	123	21.78	2.51	20		
2,2-Dichloropropane	16.150	1.0	20.00	0	80.8	69	137	17.46	7.80	20		
2-Butanone	152.670	10	200.0	0	76.3	49	136	160.8	5.20	20		
2-Chlorotoluene	19.980	1.0	20.00	0	99.9	73	126	21.30	6.40	20		
4-Chlorotoluene	20.430	1.0	20.00	0	102	74	128	21.50	5.10	20		
4-Isopropyltoluene	22.510	1.0	20.00	0	113	73	130	24.06	6.66	20		
4-Methyl-2-pentanone	172.730	10	200.0	0	86.4	58	134	176.9	2.40	20		
Acetone	171.080	10	200.0	0	85.5	40	135	178.5	4.26	20		
Benzene	20.450	1.0	20.00	0	102	81	122	21.29	4.02	20		
Bromobenzene	19.500	1.0	20.00	0	97.5	76	124	20.35	4.27	20		
Bromochloromethane	19.600	1.0	20.00	0	98.0	65	129	19.84	1.22	20		
Bromodichloromethane	19.520	1.0	20.00	0	97.6	76	121	19.95	2.18	20		
Bromoform	21.040	1.0	20.00	0	105	69	128	21.39	1.65	20		
Bromomethane	20.630	1.0	20.00	0	103	53	141	21.71	5.10	20		
Carbon disulfide	16.440	1.0	20.00	0	82.2	75	125	17.87	8.34	20		
Carbon tetrachloride	20.270	0.50	20.00	0	101	66	138	20.99	3.49	20		
Chlorobenzene	21.820	1.0	20.00	0	109	81	122	22.78	4.30	20		
Chloroethane	23.120	1.0	20.00	0	116	58	133	25.80	11.0	20		
Chloroform	19.220	1.0	20.00	0	96.1	69	128	19.51	1.50	20		
Chloromethane	20.590	1.0	20.00	0	103	56	131	21.83	5.85	20		
cis-1,2-Dichloroethane	19.460	1.0	20.00	0	97.3	72	126	19.90	2.24	20		
cis-1,3-Dichloropropene	19.470	1.0	20.00	0	97.4	69	131	19.60	0.665	20		
Di-isopropyl ether	16.780	1.0	20.00	0	83.9	70	130	17.29	2.99	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 | DO Surrogate Diluted Out | Calculations are based on raw values |



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ANALYTICAL SERVICES EXPERTS FOR ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022963
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170207LCSD	SampType: LCSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113352						
Client ID: LCSS02	Batch ID: P17VW016	TestNo: EPA 8260B		Analysis Date: 2/7/2017	SeqNo: 2558702						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	21.060	1.0	20.00	0	105	66	133	21.14	0.379	20	
Dibromomethane	20.340	1.0	20.00	0	102	76	125	20.28	0.295	20	
Dichlorodifluoromethane	25.430	1.0	20.00	0	127	53	153	27.88	9.19	20	
Ethyl tert-butyl ether	16.290	1.0	20.00	0	81.4	70	130	16.56	1.64	20	
Ethylbenzene	21.510	1.0	20.00	0	108	73	127	23.03	6.83	20	
Freon-113	17.720	1.0	20.00	0	88.6	75	125	18.79	5.86	20	
Hexachlorobutadiene	21.950	1.0	20.00	0	110	67	131	23.52	6.91	20	
Isopropylbenzene	17.280	1.0	20.00	0	86.4	75	127	18.97	9.32	20	
m,p-Xylene	42.420	1.0	40.00	0	106	76	128	45.38	6.74	20	
Methylene chloride	20.020	2.0	20.00	0	100	63	137	20.93	4.44	20	
MTBE	17.310	1.0	20.00	0	86.6	65	123	17.31	0	20	
n-Butylbenzene	22.280	1.0	20.00	0	111	69	137	21.08	5.54	20	
n-Propylbenzene	21.500	1.0	20.00	0	108	72	129	23.28	7.95	20	
Naphthalene	18.680	1.0	20.00	0	93.4	54	138	17.99	3.76	20	
o-Xylene	21.180	1.0	20.00	0	106	80	121	22.33	5.29	20	
sec-Butylbenzene	21.850	1.0	20.00	0	109	72	127	23.94	9.13	20	
Styrene	21.370	1.0	20.00	0	107	65	134	21.95	2.68	20	
Tert-amyl methyl ether	17.590	1.0	20.00	0	88.0	70	130	17.17	2.42	20	
tert-Butylbenzene	21.660	1.0	20.00	0	108	70	129	23.35	7.51	20	
Tetrachloroethene	23.210	1.0	20.00	0	116	66	128	25.11	7.86	20	
Toluene	19.830	2.0	20.00	0	99.2	77	122	20.71	4.34	20	
trans-1,2-Dichloroethene	20.270	1.0	20.00	0	101	63	137	21.22	4.58	20	
trans-1,3-Dichloropropene	18.470	1.0	20.00	0	92.4	59	135	18.41	0.325	20	
Trichloroethene	21.190	1.0	20.00	0	106	70	127	22.71	6.92	20	
Trichlorofluoromethane	23.960	1.0	20.00	0	120	57	129	26.12	8.63	20	
Vinyl chloride	21.230	0.50	20.00	0	106	50	134	22.46	5.63	20	
Xylenes, Total	63.600	2.0	60.00	0	106	75	125	67.71	6.26	20	
Surr: 1,2-Dichloroethane-d4	23.890		25.00		95.6	72	119		0		
Surr: 4-Bromofluorobenzene	25.410		25.00		102	76	119		0		
Surr: Dibromofluoromethane	24.680		25.00		98.7	85	115		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 | DO Surrogate Diluted Out | Calculations are based on raw values |



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
 Work Order: N022963
 Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170207LCSD	SampType: LCSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113352						
Client ID: LCSS02	Batch ID: P17VW016	TestNo: EPA 8260B		Analysis Date: 2/7/2017	SeqNo: 2558702						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	25.050		25.00		100	81	120		0		

Sample ID: N022846-011DMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113352						
Client ID: ZZZZZ	Batch ID: P17VW016	TestNo: EPA 8260B		Analysis Date: 2/7/2017	SeqNo: 2558704						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	18.470	1.0	20.00	0	92.4	81	129				
1,1,1-Trichloroethane	19.630	1.0	20.00	0	98.2	67	132				
1,1,2,2-Tetrachloroethane	19.520	1.0	20.00	0	97.6	63	128				
1,1,2-Trichloroethane	19.580	1.0	20.00	0	97.9	75	125				
1,1-Dichloroethane	19.530	0.50	20.00	0	97.6	69	133				
1,1-Dichloroethene	21.800	1.0	20.00	0	109	68	130				
1,1-Dichloropropene	22.710	1.0	20.00	0	114	73	132				
1,2,3-Trichlorobenzene	18.120	1.0	20.00	0	90.6	67	137				
1,2,3-Trichloropropane	18.810	1.0	20.00	0	94.1	73	124				
1,2,4-Trichlorobenzene	18.640	1.0	20.00	0	93.2	66	134				
1,2,4-Trimethylbenzene	20.570	1.0	20.00	0	103	74	132				
1,2-Dibromo-3-chloropropane	18.290	2.0	20.00	0	91.4	50	132				
1,2-Dibromoethane	20.150	1.0	20.00	0	101	80	121				
1,2-Dichlorobenzene	20.630	1.0	20.00	0	103	71	122				
1,2-Dichloroethane	19.990	0.50	20.00	0	100	69	132				
1,2-Dichloropropane	20.810	1.0	20.00	0	104	75	125				
1,3,5-Trimethylbenzene	20.670	1.0	20.00	0	103	74	131				
1,3-Dichlorobenzene	20.690	1.0	20.00	0	103	75	124				
1,3-Dichloropropane	20.960	1.0	20.00	0	105	73	126				
1,4-Dichlorobenzene	21.230	1.0	20.00	0	106	74	123				
2,2-Dichloropropane	17.330	1.0	20.00	0	86.7	69	137				
2-Butanone	91.300	10	200.0	0	45.6	49	136				S
2-Chlorotoluene	19.480	1.0	20.00	0	97.4	73	126				
4-Chlorotoluene	19.990	1.0	20.00	0	100	74	128				

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 | DO Surrogate Diluted Out | Calculations are based on raw values |



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

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022963
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N022846-011DMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113352						
Client ID: ZZZZZZ	Batch ID: P17VW016	TestNo: EPA 8260B		Analysis Date: 2/7/2017	SeqNo: 2558704						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Isopropyltoluene	22.160	1.0	20.00	0	111	73	130				
4-Methyl-2-pentanone	164.700	10	200.0	0	82.4	58	134				
Acetone	66.760	10	200.0	0	33.4	40	135				S
Benzene	20.430	1.0	20.00	0	102	81	122				
Bromobenzene	19.410	1.0	20.00	0	97.0	76	124				
Bromochloromethane	20.110	1.0	20.00	0	101	65	129				
Bromodichloromethane	19.820	1.0	20.00	0	99.1	76	121				
Bromoform	20.660	1.0	20.00	0	103	69	128				
Bromomethane	22.390	1.0	20.00	0	112	53	141				
Carbon disulfide	17.440	1.0	20.00	0	87.2	75	125				
Carbon tetrachloride	19.590	0.50	20.00	0	98.0	66	138				
Chlorobenzene	21.300	1.0	20.00	0	106	81	122				
Chloroethane	24.130	1.0	20.00	0	121	58	133				
Chloroform	19.640	1.0	20.00	0	98.2	69	128				
Chloromethane	20.760	1.0	20.00	0	104	56	131				
cis-1,2-Dichloroethene	19.700	1.0	20.00	0	98.5	72	126				
cis-1,3-Dichloropropene	19.660	1.0	20.00	0	98.3	69	131				
Di-isopropyl ether	17.190	1.0	20.00	0	86.0	70	130				
Dibromochloromethane	20.320	1.0	20.00	0	102	66	133				
Dibromomethane	19.910	1.0	20.00	0	99.6	76	125				
Dichlorodifluoromethane	26.260	1.0	20.00	0	131	53	153				
Ethyl tert-butyl ether	16.750	1.0	20.00	0	83.8	70	130				
Ethylbenzene	21.040	1.0	20.00	0	105	73	127				
Freon-113	17.970	1.0	20.00	0	89.8	75	125				
Hexachlorobutadiene	21.760	1.0	20.00	0	109	67	131				
Isopropylbenzene	16.660	1.0	20.00	0	83.3	75	127				
m,p-Xylene	42.010	1.0	40.00	0	105	76	128				
Methylene chloride	20.390	2.0	20.00	0	102	63	137				
MTBE	17.680	1.0	20.00	0	88.4	65	123				
n-Butylbenzene	21.800	1.0	20.00	0	109	69	137				

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 | DO Surrogate Diluted Out | Calculations are based on raw values |

CLIENT: CH2MHill
Work Order: N022963
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N022846-011DMS		SampType: MS		TestCode: 8260_WP_SF		Units: ug/L		Prep Date:		RunNo: 113352	
Client ID: ZZZZZ		Batch ID: P17VW016		TestNo: EPA 8260B		Analysis Date: 2/7/2017				SeqNo: 2558704	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	21.060	1.0	20.00	0	105	72	129				
Naphthalene	17.330	1.0	20.00	0	86.7	54	138				
o-Xylene	20.620	1.0	20.00	0	103	80	121				
sec-Butylbenzene	21.200	1.0	20.00	0	106	72	127				
Styrene	21.070	1.0	20.00	0	105	65	134				
Tert-amyl methyl ether	17.180	1.0	20.00	0	85.9	70	130				
tert-Butylbenzene	20.990	1.0	20.00	0	105	70	129				
Tetrachloroethene	22.680	1.0	20.00	0	113	66	128				
Toluene	19.730	2.0	20.00	0	98.6	77	122				
trans-1,2-Dichloroethene	20.490	1.0	20.00	0	102	63	137				
trans-1,3-Dichloropropene	17.930	1.0	20.00	0	89.7	59	135				
Trichloroethene	20.670	1.0	20.00	0	103	70	127				
Trichlorofluoromethane	24.350	1.0	20.00	0	122	57	129				
Vinyl chloride	21.720	0.50	20.00	0	109	50	134				
Xylenes, Total	62.630	2.0	60.00	0	104	75	125				
Surr: 1,2-Dichloroethane-d4	24.910		25.00		99.6	72	119				
Surr: 4-Bromofluorobenzene	25.740		25.00		103	76	119				
Surr: Dibromofluoromethane	25.480		25.00		102	85	115				
Surr: Toluene-d8	25.780		25.00		103	81	120				

Sample ID: N022846-011DMSD		SampType: MSD		TestCode: 8260_WP_SF		Units: ug/L		Prep Date:		RunNo: 113352	
Client ID: ZZZZZ		Batch ID: P17VW016		TestNo: EPA 8260B		Analysis Date: 2/7/2017				SeqNo: 2558705	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.250	1.0	20.00	0	96.2	81	129	18.47	4.14	20	
1,1,1-Trichloroethane	19.070	1.0	20.00	0	95.4	67	132	19.63	2.89	20	
1,1,2,2-Tetrachloroethane	21.150	1.0	20.00	0	106	63	128	19.52	8.02	20	
1,1,2-Trichloroethane	19.480	1.0	20.00	0	97.4	75	125	19.58	0.512	20	
1,1-Dichloroethane	19.410	0.50	20.00	0	97.0	69	133	19.53	0.616	20	
1,1-Dichloroethene	21.900	1.0	20.00	0	110	68	130	21.80	0.458	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 |
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| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |

CLIENT: CH2MHill
Work Order: N022963
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N022846-011DMSD		SampType: MSD		TestCode: 8260_WP_SF		Units: ug/L		Prep Date:		RunNo: 113352	
Client ID: ZZZZZZ		Batch ID: P17VW016		TestNo: EPA 8260B		Analysis Date: 2/7/2017				SeqNo: 2558705	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	22.440	1.0	20.00	0	112	73	132	22.71	1.20	20	
1,2,3-Trichlorobenzene	17.510	1.0	20.00	0	87.6	67	137	18.12	3.42	20	
1,2,3-Trichloropropane	20.250	1.0	20.00	0	101	73	124	18.81	7.37	20	
1,2,4-Trichlorobenzene	17.440	1.0	20.00	0	87.2	66	134	18.64	6.65	20	
1,2,4-Trimethylbenzene	21.210	1.0	20.00	0	106	74	132	20.57	3.06	20	
1,2-Dibromo-3-chloropropane	19.200	2.0	20.00	0	96.0	50	132	18.29	4.85	20	
1,2-Dibromoethane	20.420	1.0	20.00	0	102	80	121	20.15	1.33	20	
1,2-Dichlorobenzene	21.750	1.0	20.00	0	109	71	122	20.63	5.29	20	
1,2-Dichloroethane	20.230	0.50	20.00	0	101	69	132	19.99	1.19	20	
1,2-Dichloropropane	20.650	1.0	20.00	0	103	75	125	20.81	0.772	20	
1,3,5-Trimethylbenzene	21.810	1.0	20.00	0	109	74	131	20.67	5.37	20	
1,3-Dichlorobenzene	21.310	1.0	20.00	0	107	75	124	20.69	2.95	20	
1,3-Dichloropropane	21.280	1.0	20.00	0	106	73	126	20.96	1.52	20	
1,4-Dichlorobenzene	21.570	1.0	20.00	0	108	74	123	21.23	1.59	20	
2,2-Dichloropropane	16.740	1.0	20.00	0	83.7	69	137	17.33	3.46	20	
2-Butanone	94.330	10	200.0	0	47.2	49	136	91.30	3.26	20	S
2-Chlorotoluene	20.560	1.0	20.00	0	103	73	126	19.48	5.39	20	
4-Chlorotoluene	20.930	1.0	20.00	0	105	74	128	19.99	4.59	20	
4-Isopropyltoluene	22.290	1.0	20.00	0	111	73	130	22.16	0.585	20	
4-Methyl-2-pentanone	173.630	10	200.0	0	86.8	58	134	164.7	5.28	20	
Acetone	65.490	10	200.0	0	32.7	40	135	66.76	1.92	20	S
Benzene	20.550	1.0	20.00	0	103	81	122	20.43	0.586	20	
Bromobenzene	20.450	1.0	20.00	0	102	76	124	19.41	5.22	20	
Bromochloromethane	19.870	1.0	20.00	0	99.4	65	129	20.11	1.20	20	
Bromodichloromethane	19.830	1.0	20.00	0	99.2	76	121	19.82	0.0504	20	
Bromoform	21.020	1.0	20.00	0	105	69	128	20.66	1.73	20	
Bromomethane	21.940	1.0	20.00	0	110	53	141	22.39	2.03	20	
Carbon disulfide	16.820	1.0	20.00	0	84.1	75	125	17.44	3.62	20	
Carbon tetrachloride	19.710	0.50	20.00	0	98.6	66	138	19.59	0.611	20	
Chlorobenzene	21.590	1.0	20.00	0	108	81	122	21.30	1.35	20	

Qualifiers:

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



ASSET LABORATORIES
ANALYTICAL SERVICES • ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022963
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N022846-011DMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113352						
Client ID: ZZZZZ	Batch ID: P17VW016	TestNo: EPA 8260B		Analysis Date: 2/7/2017	SeqNo: 2558705						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroethane	26.210	1.0	20.00	0	131	58	133	24.13	8.26	20	
Chloroform	19.030	1.0	20.00	0	95.2	69	128	19.64	3.15	20	
Chloromethane	20.830	1.0	20.00	0	104	56	131	20.76	0.337	20	
cis-1,2-Dichloroethene	19.030	1.0	20.00	0	95.2	72	126	19.70	3.46	20	
cis-1,3-Dichloropropene	19.510	1.0	20.00	0	97.6	69	131	19.66	0.766	20	
Di-isopropyl ether	17.250	1.0	20.00	0	86.2	70	130	17.19	0.348	20	
Dibromochloromethane	20.830	1.0	20.00	0	104	66	133	20.32	2.48	20	
Dibromomethane	20.940	1.0	20.00	0	105	76	125	19.91	5.04	20	
Dichlorodifluoromethane	25.220	1.0	20.00	0	126	53	153	26.26	4.04	20	
Ethyl tert-butyl ether	16.500	1.0	20.00	0	82.5	70	130	16.75	1.50	20	
Ethylbenzene	21.080	1.0	20.00	0	105	73	127	21.04	0.190	20	
Freon-113	17.150	1.0	20.00	0	85.8	75	125	17.97	4.67	20	
Hexachlorobutadiene	21.840	1.0	20.00	0	109	67	131	21.76	0.367	20	
Isopropylbenzene	17.500	1.0	20.00	0	87.5	75	127	16.66	4.92	20	
m,p-Xylene	41.790	1.0	40.00	0	104	76	128	42.01	0.525	20	
Methylene chloride	20.100	2.0	20.00	0	101	63	137	20.39	1.43	20	
MTBE	17.610	1.0	20.00	0	88.0	65	123	17.68	0.397	20	
n-Butylbenzene	19.040	1.0	20.00	0	95.2	69	137	21.80	13.5	20	
n-Propylbenzene	21.650	1.0	20.00	0	108	72	129	21.06	2.76	20	
Naphthalene	18.300	1.0	20.00	0	91.5	54	138	17.33	5.44	20	
o-Xylene	20.900	1.0	20.00	0	104	80	121	20.62	1.35	20	
sec-Butylbenzene	22.100	1.0	20.00	0	110	72	127	21.20	4.16	20	
Styrene	20.950	1.0	20.00	0	105	65	134	21.07	0.571	20	
Tert-amyl methyl ether	17.490	1.0	20.00	0	87.5	70	130	17.18	1.79	20	
tert-Butylbenzene	21.820	1.0	20.00	0	109	70	129	20.99	3.88	20	
Tetrachloroethene	22.030	1.0	20.00	0	110	66	128	22.68	2.91	20	
Toluene	19.780	2.0	20.00	0	98.9	77	122	19.73	0.253	20	
trans-1,2-Dichloroethene	19.840	1.0	20.00	0	99.2	63	137	20.49	3.22	20	
trans-1,3-Dichloropropene	18.760	1.0	20.00	0	93.8	59	135	17.93	4.52	20	
Trichloroethene	20.600	1.0	20.00	0	103	70	127	20.67	0.339	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 | DO Surrogate Diluted Out | Calculations are based on raw values |



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022963
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N022846-011DMSD		SampType: MSD		TestCode: 8260_WP_SF		Units: ug/L		Prep Date:		RunNo: 113352	
Client ID: ZZZZZ		Batch ID: P17VW016		TestNo: EPA 8260B		Analysis Date: 2/7/2017				SeqNo: 2558705	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	23.330	1.0	20.00	0	117	57	129	24.35	4.28	20	
Vinyl chloride	21.260	0.50	20.00	0	106	50	134	21.72	2.14	20	
Xylenes, Total	62.690	2.0	60.00	0	104	75	125	62.63	0.0958	20	
Surr: 1,2-Dichloroethane-d4	23.800		25.00		95.2	72	119		0		
Surr: 4-Bromofluorobenzene	24.800		25.00		99.2	76	119		0		
Surr: Dibromofluoromethane	24.510		25.00		98.0	85	115		0		
Surr: Toluene-d8	25.350		25.00		101	81	120		0		

Sample ID: P170207MB3		SampType: MBLK		TestCode: 8260_WP_SF		Units: ug/L		Prep Date:		RunNo: 113352	
Client ID: PBW		Batch ID: P17VW016		TestNo: EPA 8260B		Analysis Date: 2/7/2017				SeqNo: 2558707	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	1.0									
1,1-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,3-Trichloropropane	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	2.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									

Qualifiers:

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



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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022963
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170207MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113352
Client ID: PBW	Batch ID: P17VW016	TestNo: EPA 8260B		Analysis Date: 2/7/2017	SeqNo: 2558707

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
2,2-Dichloropropane	ND	1.0									
2-Butanone	ND	10									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Acetone	ND	10									
Benzene	ND	1.0									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon disulfide	ND	1.0									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	1.0									
Chloroethane	ND	1.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
Di-isopropyl ether	ND	1.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethyl tert-butyl ether	ND	1.0									
Ethylbenzene	ND	1.0									
Freon-113	ND	1.0									

Qualifiers:

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



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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022963
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P170207MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113352						
Client ID: PBW	Batch ID: P17VW016	TestNo: EPA 8260B		Analysis Date: 2/7/2017	SeqNo: 2558707						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	1.0									
Isopropylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	2.0									
MTBE	ND	1.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
Naphthalene	ND	1.0									
o-Xylene	ND	1.0									
sec-Butylbenzene	ND	1.0									
Styrene	ND	1.0									
Tert-amyl methyl ether	ND	1.0									
tert-Butylbenzene	ND	1.0									
Tetrachloroethene	ND	1.0									
Toluene	ND	2.0									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
Trichloroethene	ND	1.0									
Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	0.50									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	22.950		25.00		91.8	72	119				
Surr: 4-Bromofluorobenzene	24.580		25.00		98.3	76	119				
Surr: Dibromofluoromethane	24.680		25.00		98.7	85	115				
Surr: Toluene-d8	26.130		25.00		105	81	120				

Qualifiers:

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



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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N022963
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: R170207LCS		SampType: LCS		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 113345			
Client ID: LCSW		Batch ID: R17VW019		TestNo: EPA 8260B		Analysis Date: 2/7/2017		SeqNo: 2562852			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tert-Butanol	101.970	10	100.0	0	102	70	130				
Surr: 1,2-Dichloroethane-d4	24.370		25.00		97.5	72	119				
Surr: 4-Bromofluorobenzene	26.140		25.00		105	76	119				
Surr: Dibromofluoromethane	25.200		25.00		101	85	115				
Surr: Toluene-d8	25.010		25.00		100	81	120				

Sample ID: R170207MB3		SampType: MBLK		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 113345			
Client ID: PBW		Batch ID: R17VW019		TestNo: EPA 8260B		Analysis Date: 2/7/2017		SeqNo: 2562853			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tert-Butanol	ND	10									
Surr: 1,2-Dichloroethane-d4	26.460		25.00		106	72	119				
Surr: 4-Bromofluorobenzene	25.220		25.00		101	76	119				
Surr: Dibromofluoromethane	24.860		25.00		99.4	85	115				
Surr: Toluene-d8	24.460		25.00		97.8	81	120				

Sample ID: N022846-011DMS		SampType: MS		TestCode: 8260_WP_SF Units: ug/L		Prep Date:		RunNo: 113345			
Client ID: ZZZZZ		Batch ID: R17VW019		TestNo: EPA 8260B		Analysis Date: 2/7/2017		SeqNo: 2562855			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tert-Butanol	103.780	10	100.0	0	104	70	130				
Surr: 1,2-Dichloroethane-d4	24.910		25.00		99.6	72	119				
Surr: 4-Bromofluorobenzene	25.730		25.00		103	76	119				
Surr: Dibromofluoromethane	25.120		25.00		100	85	115				
Surr: Toluene-d8	24.960		25.00		99.8	81	120				

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N022963
Project: SFPP Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N022846-011DMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113345						
Client ID: ZZZZZZ	Batch ID: R17VW019	TestNo: EPA 8260B		Analysis Date: 2/7/2017	SeqNo: 2562856						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tert-Butanol	97.010	10	100.0	0	97.0	70	130	103.8	6.74	20	
Surr: 1,2-Dichloroethane-d4	24.640		25.00		98.6	72	119		0		
Surr: 4-Bromofluorobenzene	25.420		25.00		102	76	119		0		
Surr: Dibromofluoromethane	24.580		25.00		98.3	85	115		0		
Surr: Toluene-d8	24.850		25.00		99.4	81	120		0		

Qualifiers:

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



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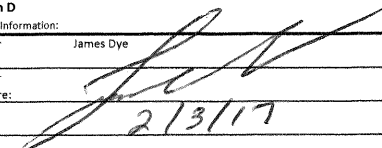
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Advanced Technology Laboratories
 3151 W. Post Road
 Las Vegas, NV 89118
 Tel: 702-307-2659 Fax: 702-307-2691
 Marlon Cartin (marlon@atl-labs.com)


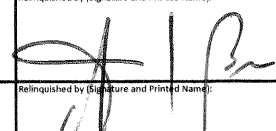
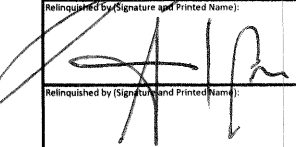
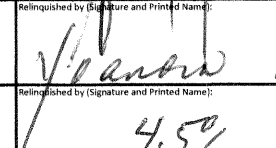


N022963

CHAIN OF CUSTODY RECORD

DATE: 2/3/17
 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: Dan Jablonski		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 daniel.jablonski@ch2m.com		Purchase Order No.:		Address: 1100 Town & Country Road Orange, CA 92868		Sample Date: <u>2/3/17</u>	
Phone: 714-560-4802 Fax: 714-560-4801		Project Name: SPPP Norwalk		ATL Project Manager:			

ITEM #	SAMPLE ID	LOCATION/ DESCRIPTION	MATRIX	SAMPLE TYPE (G-GRAB C-COMP)	SAMPLING		TOTAL # OF CONTAINERS	SAMPLE TEMPERATURE (°F)	Analysis Test	CONTAINER TYPE		V	A	H	PRESERVATIVE	VOLUME (mL)	Full VOCs + Oxygenates List (82608)	TPH-g, TPH-l, and TPH-oll (8015R)	Comments	
					DATE	TIME				# OF CONTAINERS										
1	INF-02-03	INFLUENT N022963 - 01	ww	G	2/3/17	1255	6		X	X										
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Relinquished by (Signature and Printed Name):  Date / Time: <u>2/3/17 1330</u>	Relinquished by (Signature and Printed Name):  Date / Time: <u>2/3/17 1330</u>	Turn Around Time (TAT): <input type="checkbox"/> A = Same Day <input type="checkbox"/> B = 24 Hours <input type="checkbox"/> C = 48 Hours <input type="checkbox"/> D = 72 Hours <input 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>2/3/17 1514</u>	Relinquished by (Signature and Printed Name):  Date / Time: <u>2/4/17 8:48</u>		
Relinquished by (Signature and Printed Name):  Date / Time: <u>4.50</u>	Relinquished by (Signature and Printed Name):  Date / Time: <u>52H2</u>		

OSO #: 9449.

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: 2/3/2017 Workorder: N022963
 Rep sample Temp (Deg C): 4.5 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 9449 Packing Material Used: Bubble Wrap
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|--|--|--|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" 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  2/4/2017

Reviewed By:  2/10/2017

ASSET Laboratories

WORK ORDER Summary

04-Feb-17

WorkOrder: N022963

Client ID: CH2HI03

Project: SFPP Norwalk

QC Level: RTNE

Date Received: 2/3/2017

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N022963-001A	INF-02-03	2/3/2017 12:55:00 PM	2/10/2017	Wastewater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
			2/10/2017		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N022963-001B			2/10/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/10/2017		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			2/10/2017		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N022963-002A	FOLDER		2/10/2017		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB



800-322-5555 www.gso.com

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

Tracking #: 534929449

CPS



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

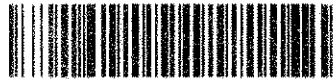
LVS
LAS VEGAS

A

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

C89102A

Delivery Instructions:
HOLD FOR PICK UP
Signature Type: REQUIRED



62438811

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

Package 2 of 4

LABEL INSTRUCTIONS:

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

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

4.5°C
JR # 2

March 09, 2017

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

TEL:

FAX:

Workorder No.: N023305

RE: SFPP - Norwalk

Attention: Dan Jablonski

Enclosed are the results for sample(s) received on March 03, 2017 by ASSET Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,



Puri Romualdo
Laboratory Director

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



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CLIENT: CH2MHill
Project: SFPP - Norwalk
Lab Order: N023305

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

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

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

Samples were analyzed within method holding time.

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

Analytical Comments for EPA 8260B:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes in QC samples N023306-001AMS and N023306-001AMSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

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



CLIENT: CH2MHill
Project: SFPP - Norwalk
Lab Order: N023305
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N023305-001A	INF-03-03	Wastewater	3/3/2017 12:30:00 PM	3/3/2017	3/9/2017
N023305-001B	INF-03-03	Wastewater	3/3/2017 12:30:00 PM	3/3/2017	3/9/2017



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 09-Mar-17

CLIENT: CH2MHill
Lab Order: N023305
Project: SFPP - Norwalk
Lab ID: N023305-001

Client Sample ID: INF-03-03
Collection Date: 3/3/2017 12:30:00 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: MS8_170305A	QC Batch: R17VW033	PrepDate:	Analyst: RB			
1,1,1,2-Tetrachloroethane	ND	0.089	1.0	ug/L	1	3/5/2017 07:35 PM
1,1,1-Trichloroethane	ND	0.15	1.0	ug/L	1	3/5/2017 07:35 PM
1,1,2,2-Tetrachloroethane	ND	0.14	1.0	ug/L	1	3/5/2017 07:35 PM
1,1,2-Trichloroethane	ND	0.15	1.0	ug/L	1	3/5/2017 07:35 PM
1,1-Dichloroethane	ND	0.13	0.50	ug/L	1	3/5/2017 07:35 PM
1,1-Dichloroethene	ND	0.15	1.0	ug/L	1	3/5/2017 07:35 PM
1,1-Dichloropropene	ND	0.12	1.0	ug/L	1	3/5/2017 07:35 PM
1,2,3-Trichlorobenzene	ND	0.16	1.0	ug/L	1	3/5/2017 07:35 PM
1,2,3-Trichloropropane	ND	0.097	1.0	ug/L	1	3/5/2017 07:35 PM
1,2,4-Trichlorobenzene	ND	0.13	1.0	ug/L	1	3/5/2017 07:35 PM
1,2,4-Trimethylbenzene	9.3	0.094	1.0	ug/L	1	3/5/2017 07:35 PM
1,2-Dibromo-3-chloropropane	ND	0.36	2.0	ug/L	1	3/5/2017 07:35 PM
1,2-Dibromoethane	ND	0.18	1.0	ug/L	1	3/5/2017 07:35 PM
1,2-Dichlorobenzene	ND	0.14	1.0	ug/L	1	3/5/2017 07:35 PM
1,2-Dichloroethane	ND	0.13	0.50	ug/L	1	3/5/2017 07:35 PM
1,2-Dichloropropane	ND	0.14	1.0	ug/L	1	3/5/2017 07:35 PM
1,3,5-Trimethylbenzene	6.0	0.11	1.0	ug/L	1	3/5/2017 07:35 PM
1,3-Dichlorobenzene	ND	0.11	1.0	ug/L	1	3/5/2017 07:35 PM
1,3-Dichloropropane	ND	0.13	1.0	ug/L	1	3/5/2017 07:35 PM
1,4-Dichlorobenzene	ND	0.13	1.0	ug/L	1	3/5/2017 07:35 PM
2,2-Dichloropropane	ND	0.16	1.0	ug/L	1	3/5/2017 07:35 PM
2-Butanone	ND	1.9	10	ug/L	1	3/5/2017 07:35 PM
2-Chlorotoluene	ND	0.14	1.0	ug/L	1	3/5/2017 07:35 PM
4-Chlorotoluene	ND	0.14	1.0	ug/L	1	3/5/2017 07:35 PM
4-Isopropyltoluene	0.19	0.13	1.0	J ug/L	1	3/5/2017 07:35 PM
4-Methyl-2-pentanone	ND	1.4	10	ug/L	1	3/5/2017 07:35 PM
Acetone	ND	4.3	10	ug/L	1	3/5/2017 07:35 PM
Acrolein	ND	1.9	20	ug/L	1	3/5/2017 07:35 PM
Acrylonitrile	ND	2.5	20	ug/L	1	3/5/2017 07:35 PM
Benzene	180	1.4	10	ug/L	10	3/5/2017 07:09 PM
Bromobenzene	ND	0.13	1.0	ug/L	1	3/5/2017 07:35 PM
Bromochloromethane	ND	0.15	1.0	ug/L	1	3/5/2017 07:35 PM
Bromodichloromethane	ND	0.10	1.0	ug/L	1	3/5/2017 07:35 PM
Bromoform	ND	0.34	1.0	ug/L	1	3/5/2017 07:35 PM
Bromomethane	ND	0.12	1.0	ug/L	1	3/5/2017 07:35 PM
Carbon disulfide	0.17	0.14	1.0	J ug/L	1	3/5/2017 07:35 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified

E Value above quantitation range
J Analyte detected below quantitation limits
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out



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ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 09-Mar-17

CLIENT: CH2MHill
Lab Order: N023305
Project: SFPP - Norwalk
Lab ID: N023305-001

Client Sample ID: INF-03-03
Collection Date: 3/3/2017 12:30:00 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: MS8_170305A	QC Batch: R17VW033	PrepDate:	Analyst: RB			
Carbon tetrachloride	ND	0.13	0.50	ug/L	1	3/5/2017 07:35 PM
Chlorobenzene	ND	0.13	1.0	ug/L	1	3/5/2017 07:35 PM
Chloroethane	ND	0.19	1.0	ug/L	1	3/5/2017 07:35 PM
Chloroform	ND	0.18	1.0	ug/L	1	3/5/2017 07:35 PM
Chloromethane	0.35	0.22	1.0	J ug/L	1	3/5/2017 07:35 PM
cis-1,2-Dichloroethene	ND	0.20	1.0	ug/L	1	3/5/2017 07:35 PM
cis-1,3-Dichloropropene	ND	0.14	1.0	ug/L	1	3/5/2017 07:35 PM
Di-isopropyl ether	3.0	0.18	1.0	ug/L	1	3/5/2017 07:35 PM
Dibromochloromethane	ND	0.12	1.0	ug/L	1	3/5/2017 07:35 PM
Dibromomethane	ND	0.12	1.0	ug/L	1	3/5/2017 07:35 PM
Dichlorodifluoromethane	ND	0.17	1.0	ug/L	1	3/5/2017 07:35 PM
Ethyl tert-butyl ether	ND	0.15	1.0	ug/L	1	3/5/2017 07:35 PM
Ethylbenzene	5.2	0.14	1.0	ug/L	1	3/5/2017 07:35 PM
Freon-113	ND	0.19	1.0	ug/L	1	3/5/2017 07:35 PM
Hexachlorobutadiene	ND	0.15	1.0	ug/L	1	3/5/2017 07:35 PM
Isopropylbenzene	2.6	0.11	1.0	ug/L	1	3/5/2017 07:35 PM
m,p-Xylene	18	0.23	1.0	ug/L	1	3/5/2017 07:35 PM
Methylene chloride	ND	0.26	2.0	ug/L	1	3/5/2017 07:35 PM
MTBE	4.2	0.13	1.0	ug/L	1	3/5/2017 07:35 PM
n-Butylbenzene	ND	0.15	1.0	ug/L	1	3/5/2017 07:35 PM
n-Propylbenzene	5.0	0.16	1.0	ug/L	1	3/5/2017 07:35 PM
Naphthalene	29	0.094	1.0	ug/L	1	3/5/2017 07:35 PM
o-Xylene	6.8	0.13	1.0	ug/L	1	3/5/2017 07:35 PM
sec-Butylbenzene	0.41	0.12	1.0	J ug/L	1	3/5/2017 07:35 PM
Styrene	ND	0.14	1.0	ug/L	1	3/5/2017 07:35 PM
Tert-amyl methyl ether	ND	0.12	1.0	ug/L	1	3/5/2017 07:35 PM
Tert-Butanol	620	18	50	ug/L	10	3/5/2017 07:09 PM
tert-Butylbenzene	ND	0.11	1.0	ug/L	1	3/5/2017 07:35 PM
Tetrachloroethene	ND	0.13	1.0	ug/L	1	3/5/2017 07:35 PM
Toluene	1.7	0.14	2.0	J ug/L	1	3/5/2017 07:35 PM
trans-1,2-Dichloroethene	ND	0.20	1.0	ug/L	1	3/5/2017 07:35 PM
trans-1,3-Dichloropropene	ND	0.13	1.0	ug/L	1	3/5/2017 07:35 PM
Trichloroethene	ND	0.14	1.0	ug/L	1	3/5/2017 07:35 PM
Trichlorofluoromethane	ND	0.13	1.0	ug/L	1	3/5/2017 07:35 PM
Vinyl chloride	ND	0.15	0.50	ug/L	1	3/5/2017 07:35 PM
Xylenes, Total	24	1.5	2.0	ug/L	1	3/5/2017 07:35 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified

E Value above quantitation range
J Analyte detected below quantitation limits
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 09-Mar-17

CLIENT: CH2MHill
Lab Order: N023305
Project: SFPP - Norwalk
Lab ID: N023305-001

Client Sample ID: INF-03-03
Collection Date: 3/3/2017 12:30:00 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:	MS8_170305A	QC Batch:	R17VW033	PrepDate:	Analyst:	RB	
Surr:	1,2-Dichloroethane-d4	95.1	0	72-119	%REC	10	3/5/2017 07:09 PM
Surr:	1,2-Dichloroethane-d4	85.3	0	72-119	%REC	1	3/5/2017 07:35 PM
Surr:	4-Bromofluorobenzene	95.3	0	76-119	%REC	1	3/5/2017 07:35 PM
Surr:	4-Bromofluorobenzene	92.0	0	76-119	%REC	10	3/5/2017 07:09 PM
Surr:	Dibromofluoromethane	91.6	0	85-115	%REC	1	3/5/2017 07:35 PM
Surr:	Dibromofluoromethane	102	0	85-115	%REC	10	3/5/2017 07:09 PM
Surr:	Toluene-d8	96.2	0	81-120	%REC	10	3/5/2017 07:09 PM
Surr:	Toluene-d8	95.8	0	81-120	%REC	1	3/5/2017 07:35 PM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID:	NV00922-GC3_170306A	QC Batch:	61468	PrepDate:	3/6/2017	Analyst:	JJS
TPH-Diesel (C13-C22)	320	16	26	ug/L	1	3/6/2017 01:44 PM	
TPH-Oil (C23-C36)	78	14	26	ug/L	1	3/6/2017 01:44 PM	
Surr: Octacosane	93.4	0	26-152	%REC	1	3/6/2017 01:44 PM	
Surr: p-Terphenyl	95.7	0	57-132	%REC	1	3/6/2017 01:44 PM	

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID:	NV00922-GC4_170305A	QC Batch:	E17VW024	PrepDate:	Analyst:	RB
TPH-Gasoline (C4-C12)	790	16	50	ug/L	1	3/5/2017 05:27 PM
Surr: Chlorobenzene - d5	113	0	74-138	%REC	1	3/5/2017 05:27 PM

TOTAL TPH

EPA 8015B

RunID:	NV00922-GC3_170306A	QC Batch:	R113910	PrepDate:	Analyst:	JJS
Total TPH	1200	16	100	ug/L	1	3/6/2017

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



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CLIENT: CH2MHill
Work Order: N023305
Project: SFPP - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-61468	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 3/6/2017	RunNo: 113910						
Client ID: PBW	Batch ID: 61468	TestNo: EPA 8015B EPA 3510C		Analysis Date: 3/6/2017	SeqNo: 2587375						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	25									
TPH-Oil (C23-C36)	24.673	25									J
Surr: Octacosane	74.475		80.00		93.1	26	152				
Surr: p-Terphenyl	71.207		80.00		89.0	57	132				

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N023305
Project: SFPP - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

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

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N023305
Project: SFPP - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

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

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

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

Sample ID: N023305-001AMSD	SampType: MSD	TestCode: 8015GAS_WS Units: ug/L	Prep Date:	RunNo: 113901							
Client ID: ZZZZZ	Batch ID: E17VW024	TestNo: EPA 8015B	Analysis Date: 3/5/2017	SeqNo: 2586708							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	1595.000	50	1000	794.0	80.1	67	136	1736	8.47	30	
Surr: Chlorobenzene - d5	60030.000		50000		120	74	138		0	0	

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N023305
Project: SFPP - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: R170305LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113902
Client ID: LCSW	Batch ID: R17VW033	TestNo: EPA 8260B		Analysis Date: 3/5/2017	SeqNo: 2586750

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.650	1.0	20.00	0	98.2	81	129				
1,1,1-Trichloroethane	19.060	1.0	20.00	0	95.3	67	132				
1,1,2,2-Tetrachloroethane	18.220	1.0	20.00	0	91.1	63	128				
1,1,2-Trichloroethane	18.810	1.0	20.00	0	94.1	75	125				
1,1-Dichloroethane	16.570	0.50	20.00	0	82.8	69	133				
1,1-Dichloroethene	16.800	1.0	20.00	0	84.0	68	130				
1,1-Dichloropropene	19.790	1.0	20.00	0	99.0	73	132				
1,2,3-Trichlorobenzene	18.920	1.0	20.00	0	94.6	67	137				
1,2,3-Trichloropropane	18.130	1.0	20.00	0	90.7	73	124				
1,2,4-Trichlorobenzene	18.410	1.0	20.00	0	92.0	66	134				
1,2,4-Trimethylbenzene	20.240	1.0	20.00	0	101	74	132				
1,2-Dibromo-3-chloropropane	17.730	2.0	20.00	0	88.6	50	132				
1,2-Dibromoethane	19.860	1.0	20.00	0	99.3	80	121				
1,2-Dichlorobenzene	19.400	1.0	20.00	0	97.0	71	122				
1,2-Dichloroethane	19.620	0.50	20.00	0	98.1	69	132				
1,2-Dichloropropane	18.360	1.0	20.00	0	91.8	75	125				
1,3,5-Trimethylbenzene	20.460	1.0	20.00	0	102	74	131				
1,3-Dichlorobenzene	19.690	1.0	20.00	0	98.4	75	124				
1,3-Dichloropropane	18.560	1.0	20.00	0	92.8	73	126				
1,4-Dichlorobenzene	19.340	1.0	20.00	0	96.7	74	123				
2,2-Dichloropropane	18.540	1.0	20.00	0	92.7	69	137				
2-Butanone	162.180	10	200.0	0	81.1	49	136				
2-Chlorotoluene	19.310	1.0	20.00	0	96.6	73	126				
4-Chlorotoluene	19.320	1.0	20.00	0	96.6	74	128				
4-Isopropyltoluene	20.080	1.0	20.00	0	100	73	130				
4-Methyl-2-pentanone	191.740	10	200.0	0	95.9	58	134				
Acetone	142.200	10	200.0	0	71.1	40	135				
Acrolein	156.710	20	200.0	0	78.4	75	125				
Acrylonitrile	162.040	20	200.0	0	81.0	75	125				
Benzene	19.460	1.0	20.00	0	97.3	81	122				

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N023305
Project: SFPP - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: R170305LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113902
Client ID: LCSW	Batch ID: R17VW033	TestNo: EPA 8260B		Analysis Date: 3/5/2017	SeqNo: 2586750

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	19.260	1.0	20.00	0	96.3	76	124				
Bromochloromethane	18.710	1.0	20.00	0	93.6	65	129				
Bromodichloromethane	19.710	1.0	20.00	0	98.6	76	121				
Bromoform	20.830	1.0	20.00	0	104	69	128				
Bromomethane	15.990	1.0	20.00	0	80.0	53	141				
Carbon disulfide	16.710	1.0	20.00	0	83.6	75	125				
Carbon tetrachloride	20.330	0.50	20.00	0	102	66	138				
Chlorobenzene	19.240	1.0	20.00	0	96.2	81	122				
Chloroethane	21.510	1.0	20.00	0	108	58	133				
Chloroform	17.840	1.0	20.00	0	89.2	69	128				
Chloromethane	18.390	1.0	20.00	0	92.0	56	131				
cis-1,2-Dichloroethene	19.800	1.0	20.00	0	99.0	72	126				
cis-1,3-Dichloropropene	19.560	1.0	20.00	0	97.8	69	131				
Di-isopropyl ether	15.150	1.0	20.00	0	75.8	70	130				
Dibromochloromethane	20.130	1.0	20.00	0	101	66	133				
Dibromomethane	19.090	1.0	20.00	0	95.4	76	125				
Dichlorodifluoromethane	17.740	1.0	20.00	0	88.7	53	153				
Ethyl tert-butyl ether	15.140	1.0	20.00	0	75.7	70	130				
Ethylbenzene	18.930	1.0	20.00	0	94.6	73	127				
Freon-113	17.710	1.0	20.00	0	88.6	75	125				
Hexachlorobutadiene	19.600	1.0	20.00	0	98.0	67	131				
Isopropylbenzene	19.380	1.0	20.00	0	96.9	75	127				
m,p-Xylene	39.460	1.0	40.00	0	98.6	76	128				
Methylene chloride	15.510	2.0	20.00	0	77.6	63	137				
MTBE	16.620	1.0	20.00	0	83.1	65	123				
n-Butylbenzene	18.960	1.0	20.00	0	94.8	69	137				
n-Propylbenzene	19.170	1.0	20.00	0	95.9	72	129				
Naphthalene	16.480	1.0	20.00	0	82.4	54	138				
o-Xylene	19.460	1.0	20.00	0	97.3	80	121				
sec-Butylbenzene	19.700	1.0	20.00	0	98.5	72	127				

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 | DO Surrogate Diluted Out | Calculations are based on raw values |

CLIENT: CH2MHill
 Work Order: N023305
 Project: SFPP - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: R170305LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113902						
Client ID: LCSW	Batch ID: R17VW033	TestNo: EPA 8260B		Analysis Date: 3/5/2017	SeqNo: 2586750						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	18.290	1.0	20.00	0	91.4	65	134				
Tert-amyl methyl ether	19.680	1.0	20.00	0	98.4	70	130				
Tert-Butanol	72.900	5.0	100.0	0	72.9	70	130				
tert-Butylbenzene	19.310	1.0	20.00	0	96.6	70	129				
Tetrachloroethene	19.650	1.0	20.00	0	98.2	66	128				
Toluene	18.700	2.0	20.00	0	93.5	77	122				
trans-1,2-Dichloroethene	16.550	1.0	20.00	0	82.8	63	137				
trans-1,3-Dichloropropene	20.660	1.0	20.00	0	103	59	135				
Trichloroethene	18.930	1.0	20.00	0	94.6	70	127				
Trichlorofluoromethane	18.120	1.0	20.00	0	90.6	57	129				
Vinyl chloride	16.820	0.50	20.00	0	84.1	50	134				
Xylenes, Total	58.920	2.0	60.00	0	98.2	75	125				
Surr: 1,2-Dichloroethane-d4	23.250		25.00		93.0	72	119				
Surr: 4-Bromofluorobenzene	24.440		25.00		97.8	76	119				
Surr: Dibromofluoromethane	23.830		25.00		95.3	85	115				
Surr: Toluene-d8	24.800		25.00		99.2	81	120				

Sample ID: R170305MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113902						
Client ID: PBW	Batch ID: R17VW033	TestNo: EPA 8260B		Analysis Date: 3/5/2017	SeqNo: 2586753						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	1.0									
1,1-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,3-Trichloropropane	ND	1.0									

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 | DO Surrogate Diluted Out | Calculations are based on raw values |

CLIENT: CH2MHill
Work Order: N023305
Project: SFPP - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: R170305MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113902						
Client ID: PBW	Batch ID: R17VW033	TestNo: EPA 8260B		Analysis Date: 3/5/2017	SeqNo: 2586753						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	2.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,3-Dichloropropane	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
2,2-Dichloropropane	ND	1.0									
2-Butanone	ND	10									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Acetone	ND	10									
Acrolein	ND	20									
Acrylonitrile	ND	20									
Benzene	ND	1.0									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon disulfide	ND	1.0									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	1.0									
Chloroethane	ND	1.0									

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 | DO Surrogate Diluted Out | Calculations are based on raw values |

CLIENT: CH2MHill
Work Order: N023305
Project: SFPP - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: R170305MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113902
Client ID: PBW	Batch ID: R17VW033	TestNo: EPA 8260B		Analysis Date: 3/5/2017	SeqNo: 2586753

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	ND	1.0									
Chloromethane	0.330	1.0									J
cis-1,2-Dichloroethene	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
Di-isopropyl ether	ND	1.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethyl tert-butyl ether	ND	1.0									
Ethylbenzene	ND	1.0									
Freon-113	ND	1.0									
Hexachlorobutadiene	ND	1.0									
Isopropylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	2.0									
MTBE	ND	1.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
Naphthalene	ND	1.0									
o-Xylene	ND	1.0									
sec-Butylbenzene	ND	1.0									
Styrene	ND	1.0									
Tert-amyl methyl ether	ND	1.0									
Tert-Butanol	ND	5.0									
tert-Butylbenzene	ND	1.0									
Tetrachloroethene	ND	1.0									
Toluene	0.200	2.0									J
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
Trichloroethene	ND	1.0									

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 | DO Surrogate Diluted Out | Calculations are based on raw values |

CLIENT: CH2MHill
 Work Order: N023305
 Project: SFPP - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: R170305MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113902						
Client ID: PBW	Batch ID: R17VW033	TestNo: EPA 8260B		Analysis Date: 3/5/2017	SeqNo: 2586753						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	0.50									
Xylenes, Total	ND	2.0									
Surr: 1,2-Dichloroethane-d4	22.880		25.00		91.5	72	119				
Surr: 4-Bromofluorobenzene	22.090		25.00		88.4	76	119				
Surr: Dibromofluoromethane	24.000		25.00		96.0	85	115				
Surr: Toluene-d8	24.000		25.00		96.0	81	120				

Sample ID: N023306-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113902						
Client ID: ZZZZZ	Batch ID: R17VW033	TestNo: EPA 8260B		Analysis Date: 3/5/2017	SeqNo: 2586755						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.460	1.0	20.00	0	97.3	81	129				
1,1,1-Trichloroethane	19.780	1.0	20.00	0	98.9	67	132				
1,1,2,2-Tetrachloroethane	17.090	1.0	20.00	0	85.4	63	128				
1,1,2-Trichloroethane	17.250	1.0	20.00	0	86.2	75	125				
1,1-Dichloroethane	15.270	0.50	20.00	0	76.4	69	133				
1,1-Dichloroethene	15.860	1.0	20.00	0	79.3	68	130				
1,1-Dichloropropene	21.070	1.0	20.00	0	105	73	132				
1,2,3-Trichlorobenzene	18.010	1.0	20.00	0	90.1	67	137				
1,2,3-Trichloropropane	16.770	1.0	20.00	0	83.9	73	124				
1,2,4-Trichlorobenzene	17.620	1.0	20.00	0	88.1	66	134				
1,2,4-Trimethylbenzene	19.180	1.0	20.00	0.08000	95.5	74	132				
1,2-Dibromo-3-chloropropane	15.690	2.0	20.00	0	78.4	50	132				
1,2-Dibromoethane	17.700	1.0	20.00	0	88.5	80	121				
1,2-Dichlorobenzene	18.830	1.0	20.00	0	94.2	71	122				
1,2-Dichloroethane	18.510	0.50	20.00	0	92.6	69	132				
1,2-Dichloropropane	17.450	1.0	20.00	0	87.2	75	125				
1,3,5-Trimethylbenzene	20.670	1.0	20.00	0.05000	103	74	131				
1,3-Dichlorobenzene	19.500	1.0	20.00	0	97.5	75	124				

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 | DO Surrogate Diluted Out | Calculations are based on raw values |

CLIENT: CH2MHill
 Work Order: N023305
 Project: SFPP - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N023306-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113902						
Client ID: ZZZZZ	Batch ID: R17VW033	TestNo: EPA 8260B		Analysis Date: 3/5/2017	SeqNo: 2586755						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	17.510	1.0	20.00	0	87.6	73	126				
1,4-Dichlorobenzene	18.810	1.0	20.00	0	94.1	74	123				
2,2-Dichloropropane	18.460	1.0	20.00	0	92.3	69	137				
2-Butanone	83.770	10	200.0	0	41.9	49	136				S
2-Chlorotoluene	19.460	1.0	20.00	0	97.3	73	126				
4-Chlorotoluene	19.340	1.0	20.00	0	96.7	74	128				
4-Isopropyltoluene	20.630	1.0	20.00	0	103	73	130				
4-Methyl-2-pentanone	165.510	10	200.0	0	82.8	58	134				
Acetone	47.970	10	200.0	0	24.0	40	135				S
Acrolein	151.550	20	200.0	0	75.8	75	125				
Acrylonitrile	129.560	20	200.0	0	64.8	75	125				S
Benzene	19.010	1.0	20.00	0.07000	94.7	81	122				
Bromobenzene	18.930	1.0	20.00	0	94.6	76	124				
Bromochloromethane	16.650	1.0	20.00	0	83.3	65	129				
Bromodichloromethane	18.870	1.0	20.00	0	94.4	76	121				
Bromoform	19.570	1.0	20.00	0	97.9	69	128				
Bromomethane	14.500	1.0	20.00	0	72.5	53	141				
Carbon disulfide	15.720	1.0	20.00	0.06000	78.3	75	125				
Carbon tetrachloride	22.550	0.50	20.00	0	113	66	138				
Chlorobenzene	18.970	1.0	20.00	0	94.8	81	122				
Chloroethane	19.110	1.0	20.00	0	95.6	58	133				
Chloroform	16.440	1.0	20.00	0.05000	82.0	69	128				
Chloromethane	14.120	1.0	20.00	0.3400	68.9	56	131				
cis-1,2-Dichloroethene	17.330	1.0	20.00	0	86.7	72	126				
cis-1,3-Dichloropropene	18.390	1.0	20.00	0	92.0	69	131				
Di-isopropyl ether	13.590	1.0	20.00	0	68.0	70	130				S
Dibromochloromethane	18.970	1.0	20.00	0	94.8	66	133				
Dibromomethane	17.660	1.0	20.00	0	88.3	76	125				
Dichlorodifluoromethane	18.530	1.0	20.00	0	92.6	53	153				
Ethyl tert-butyl ether	13.930	1.0	20.00	0	69.6	70	130				S

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N023305
Project: SFPP - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N023306-001AMS	SampType: MS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113902						
Client ID: ZZZZZ	Batch ID: R17VW033	TestNo: EPA 8260B		Analysis Date: 3/5/2017	SeqNo: 2586755						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	19.220	1.0	20.00	0.08000	95.7	73	127				
Freon-113	17.430	1.0	20.00	0	87.2	75	125				
Hexachlorobutadiene	19.890	1.0	20.00	0	99.4	67	131				
Isopropylbenzene	19.940	1.0	20.00	0	99.7	75	127				
m,p-Xylene	39.530	1.0	40.00	0.2000	98.3	76	128				
Methylene chloride	13.650	2.0	20.00	0	68.2	63	137				
MTBE	14.220	1.0	20.00	0	71.1	65	123				
n-Butylbenzene	19.550	1.0	20.00	0	97.8	69	137				
n-Propylbenzene	19.750	1.0	20.00	0	98.8	72	129				
Naphthalene	13.930	1.0	20.00	0	69.6	54	138				
o-Xylene	19.020	1.0	20.00	0.07000	94.8	80	121				
sec-Butylbenzene	20.440	1.0	20.00	0	102	72	127				
Styrene	15.100	1.0	20.00	0	75.5	65	134				
Tert-amyl methyl ether	18.500	1.0	20.00	0	92.5	70	130				
Tert-Butanol	61.110	5.0	100.0	0	61.1	70	130				S
tert-Butylbenzene	20.050	1.0	20.00	0	100	70	129				
Tetrachloroethene	20.240	1.0	20.00	0	101	66	128				
Toluene	18.410	2.0	20.00	0.2800	90.7	77	122				
trans-1,2-Dichloroethene	15.680	1.0	20.00	0	78.4	63	137				
trans-1,3-Dichloropropene	18.750	1.0	20.00	0	93.8	59	135				
Trichloroethene	18.880	1.0	20.00	0	94.4	70	127				
Trichlorofluoromethane	17.370	1.0	20.00	0.09000	86.4	57	129				
Vinyl chloride	15.450	0.50	20.00	0	77.2	50	134				
Xylenes, Total	58.550	2.0	60.00	0	97.6	75	125				
Surr: 1,2-Dichloroethane-d4	20.460		25.00		81.8	72	119				
Surr: 4-Bromofluorobenzene	24.400		25.00		97.6	76	119				
Surr: Dibromofluoromethane	22.860		25.00		91.4	85	115				
Surr: Toluene-d8	24.430		25.00		97.7	81	120				

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 | DO Surrogate Diluted Out | Calculations are based on raw values |

CLIENT: CH2MHill
 Work Order: N023305
 Project: SFPP - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N023306-001AMSD		SampType: MSD		TestCode: 8260_WP_SF		Units: ug/L		Prep Date:		RunNo: 113902	
Client ID: ZZZZZZ		Batch ID: R17VW033		TestNo: EPA 8260B		Analysis Date: 3/5/2017		SeqNo: 2586756			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.690	1.0	20.00	0	98.4	81	129	19.46	1.17	20	
1,1,1-Trichloroethane	18.710	1.0	20.00	0	93.6	67	132	19.78	5.56	20	
1,1,2,2-Tetrachloroethane	17.410	1.0	20.00	0	87.1	63	128	17.09	1.86	20	
1,1,2-Trichloroethane	18.150	1.0	20.00	0	90.8	75	125	17.25	5.08	20	
1,1-Dichloroethane	15.990	0.50	20.00	0	80.0	69	133	15.27	4.61	20	
1,1-Dichloroethene	16.010	1.0	20.00	0	80.1	68	130	15.86	0.941	20	
1,1-Dichloropropene	20.840	1.0	20.00	0	104	73	132	21.07	1.10	20	
1,2,3-Trichlorobenzene	18.390	1.0	20.00	0	92.0	67	137	18.01	2.09	20	
1,2,3-Trichloropropane	16.760	1.0	20.00	0	83.8	73	124	16.77	0.0596	20	
1,2,4-Trichlorobenzene	17.830	1.0	20.00	0	89.2	66	134	17.62	1.18	20	
1,2,4-Trimethylbenzene	17.040	1.0	20.00	0.08000	84.8	74	132	19.18	11.8	20	
1,2-Dibromo-3-chloropropane	16.340	2.0	20.00	0	81.7	50	132	15.69	4.06	20	
1,2-Dibromoethane	18.840	1.0	20.00	0	94.2	80	121	17.70	6.24	20	
1,2-Dichlorobenzene	19.340	1.0	20.00	0	96.7	71	122	18.83	2.67	20	
1,2-Dichloroethane	19.160	0.50	20.00	0	95.8	69	132	18.51	3.45	20	
1,2-Dichloropropane	18.090	1.0	20.00	0	90.4	75	125	17.45	3.60	20	
1,3,5-Trimethylbenzene	19.620	1.0	20.00	0.05000	97.9	74	131	20.67	5.21	20	
1,3-Dichlorobenzene	19.500	1.0	20.00	0	97.5	75	124	19.50	0	20	
1,3-Dichloropropane	18.310	1.0	20.00	0	91.6	73	126	17.51	4.47	20	
1,4-Dichlorobenzene	19.270	1.0	20.00	0	96.4	74	123	18.81	2.42	20	
2,2-Dichloropropane	18.300	1.0	20.00	0	91.5	69	137	18.46	0.871	20	
2-Butanone	94.700	10	200.0	0	47.4	49	136	83.77	12.2	20	S
2-Chlorotoluene	19.070	1.0	20.00	0	95.4	73	126	19.46	2.02	20	
4-Chlorotoluene	19.000	1.0	20.00	0	95.0	74	128	19.34	1.77	20	
4-Isopropyltoluene	19.630	1.0	20.00	0	98.2	73	130	20.63	4.97	20	
4-Methyl-2-pentanone	179.490	10	200.0	0	89.7	58	134	165.5	8.10	20	
Acetone	55.090	10	200.0	0	27.5	40	135	47.97	13.8	20	S
Acrolein	137.170	20	200.0	0	68.6	75	125	151.6	9.96	20	S
Acrylonitrile	147.660	20	200.0	0	73.8	75	125	129.6	13.1	20	S
Benzene	19.140	1.0	20.00	0.07000	95.4	81	122	19.01	0.682	20	

Qualifiers:

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

CLIENT: CH2MHill
 Work Order: N023305
 Project: SFPP - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N023306-001AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113902						
Client ID: ZZZZZ	Batch ID: R17VW033	TestNo: EPA 8260B		Analysis Date: 3/5/2017	SeqNo: 2586756						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene	18.990	1.0	20.00	0	95.0	76	124	18.93	0.316	20	
Bromochloromethane	17.770	1.0	20.00	0	88.8	65	129	16.65	6.51	20	
Bromodichloromethane	19.380	1.0	20.00	0	96.9	76	121	18.87	2.67	20	
Bromoform	20.340	1.0	20.00	0	102	69	128	19.57	3.86	20	
Bromomethane	13.860	1.0	20.00	0	69.3	53	141	14.50	4.51	20	
Carbon disulfide	16.190	1.0	20.00	0.06000	80.6	75	125	15.72	2.95	20	
Carbon tetrachloride	20.510	0.50	20.00	0	103	66	138	22.55	9.48	20	
Chlorobenzene	19.450	1.0	20.00	0	97.3	81	122	18.97	2.50	20	
Chloroethane	18.890	1.0	20.00	0	94.4	58	133	19.11	1.16	20	
Chloroform	17.180	1.0	20.00	0.05000	85.7	69	128	16.44	4.40	20	
Chloromethane	12.980	1.0	20.00	0.3400	63.2	56	131	14.12	8.41	20	
cis-1,2-Dichloroethene	19.500	1.0	20.00	0	97.5	72	126	17.33	11.8	20	
cis-1,3-Dichloropropene	19.070	1.0	20.00	0	95.4	69	131	18.39	3.63	20	
Di-isopropyl ether	14.630	1.0	20.00	0	73.2	70	130	13.59	7.37	20	
Dibromochloromethane	20.100	1.0	20.00	0	101	66	133	18.97	5.78	20	
Dibromomethane	18.450	1.0	20.00	0	92.2	76	125	17.66	4.38	20	
Dichlorodifluoromethane	17.270	1.0	20.00	0	86.4	53	153	18.53	7.04	20	
Ethyl tert-butyl ether	14.650	1.0	20.00	0	73.2	70	130	13.93	5.04	20	
Ethylbenzene	19.130	1.0	20.00	0.08000	95.2	73	127	19.22	0.469	20	
Freon-113	17.190	1.0	20.00	0	86.0	75	125	17.43	1.39	20	
Hexachlorobutadiene	19.230	1.0	20.00	0	96.2	67	131	19.89	3.37	20	
Isopropylbenzene	19.260	1.0	20.00	0	96.3	75	127	19.94	3.47	20	
m,p-Xylene	39.400	1.0	40.00	0.2000	98.0	76	128	39.53	0.329	20	
Methylene chloride	15.060	2.0	20.00	0	75.3	63	137	13.65	9.82	20	
MTBE	15.480	1.0	20.00	0	77.4	65	123	14.22	8.48	20	
n-Butylbenzene	18.750	1.0	20.00	0	93.8	69	137	19.55	4.18	20	
n-Propylbenzene	18.990	1.0	20.00	0	95.0	72	129	19.75	3.92	20	
Naphthalene	13.760	1.0	20.00	0	68.8	54	138	13.93	1.23	20	
o-Xylene	19.280	1.0	20.00	0.07000	96.0	80	121	19.02	1.36	20	
sec-Butylbenzene	19.470	1.0	20.00	0	97.4	72	127	20.44	4.86	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
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 - H Holding times for preparation or analysis exceeded
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CALIFORNIA | P:562.219.7435 F:562.219.7436
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703
 ELAP Cert 2921
 EPA ID CA01638

NEVADA | P:702.307.2659 F:702.307.269
 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert NVO0922
 ORELAP/NELAP Cert 4046

CLIENT: CH2MHill
Work Order: N023305
Project: SFPP - Norwalk

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: N023306-001AMSD	SampType: MSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 113902						
Client ID: ZZZZZ	Batch ID: R17VW033	TestNo: EPA 8260B		Analysis Date: 3/5/2017	SeqNo: 2586756						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	11.990	1.0	20.00	0	60.0	65	134	15.10	23.0	20	SR
Tert-amyl methyl ether	19.130	1.0	20.00	0	95.7	70	130	18.50	3.35	20	
Tert-Butanol	69.470	5.0	100.0	0	69.5	70	130	61.11	12.8	20	S
tert-Butylbenzene	19.640	1.0	20.00	0	98.2	70	129	20.05	2.07	20	
Tetrachloroethene	19.870	1.0	20.00	0	99.4	66	128	20.24	1.84	20	
Toluene	18.650	2.0	20.00	0.2800	91.8	77	122	18.41	1.30	20	
trans-1,2-Dichloroethene	16.080	1.0	20.00	0	80.4	63	137	15.68	2.52	20	
trans-1,3-Dichloropropene	19.670	1.0	20.00	0	98.4	59	135	18.75	4.79	20	
Trichloroethene	18.710	1.0	20.00	0	93.6	70	127	18.88	0.904	20	
Trichlorofluoromethane	16.200	1.0	20.00	0.09000	80.6	57	129	17.37	6.97	20	
Vinyl chloride	15.600	0.50	20.00	0	78.0	50	134	15.45	0.966	20	
Xylenes, Total	58.680	2.0	60.00	0	97.8	75	125	58.55	0.222	20	
Surr: 1,2-Dichloroethane-d4	21.430		25.00		85.7	72	119		0		
Surr: 4-Bromofluorobenzene	24.910		25.00		99.6	76	119		0		
Surr: Dibromofluoromethane	22.630		25.00		90.5	85	115		0		
Surr: Toluene-d8	24.400		25.00		97.6	81	120		0		

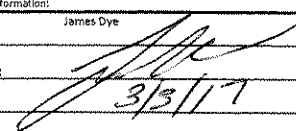
Qualifiers:

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


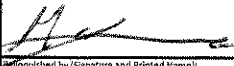
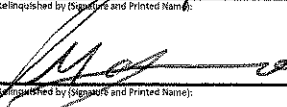
Advanced Technology Laboratories
 3151 W. Post Road
 Las Vegas, NV 89118
 Tel: 702-307-2659 Fax: 702-307-2691
 Marlon Cartin (marlon@atl-labs.com)

CHAIN OF CUSTODY RECORD

DATE: 3/3/17
 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: Dan Jablonski	Attention: Steve Defibaugh - Ref. APE# 83195	Company: Kinder Morgan Energy Partners	Sampler Name: James Dye	 3/3/17		
Address: 1100 Town & Country Road Orange, CA 92868	Copy To: Steve Defibaugh	Address: 1100 Town & Country Road Orange, CA 92868	ATL Project Manager: Marlon Cartin				
Email To: steve_defibaugh@kinder.org marlon.cartin@atl-labs.com	Purchase Order No.:						
Phone: 714-560-4802 Fax: 714-560-4801	Project Name: SFPP Norwalk						

ITEM #	SAMPLE ID	LOCATION/ DESCRIPTION	MATRIX	SAMPLE TYPE (G-GRAB C-COMP)	SAMPLING		TOTAL # OF CONTAINERS	SAMPLE TEMPERATURE (°F)	Analysis Test	CONTAINER TYPE		PRESERVATIVE		VOLUME (mL)	V	A	H	Comments	
					DATE	TIME				# OF CONTAINERS	TEMPERATURE	Full VOCs + Organates List (82008)	TPH-g, TPH-d, and TPH-oil (80338)						
1	INF-03-03	INFLUENT	WW	G	3/3/17	12:20	2	70	X	X			40	1000				N023305-01	
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

Relinquished by (Signature and Printed Name):  Date / Time: 3/3/17 14:00	Relinquished by (Signature and Printed Name):  Date / Time: 3-3-17 14:54	Turn Around Time (TAT): <input type="checkbox"/> A = Same Day <input type="checkbox"/> B = 24 Hours <input type="checkbox"/> C = 48 Hours <input type="checkbox"/> D = 72 Hours <input checked="" type="checkbox"/> E = 5 Workdays <input type="checkbox"/> F = 10 Workdays TAT Starts at 8 AM the following day if samples received after 3:00 PM.	Special Instruction: 4.20 IR#2 650# : 2946
Relinquished by (Signature and Printed Name):  Date / Time: 3/3/17 17:00	Relinquished by (Signature and Printed Name): Yeandro Rodriguez Date / Time: 3/4/17 8:20 am		

Matrix: W = Water O = Oil Others/Specify:	Preservatives: H = HCl Z = Zn(AC)2 Others/Specify:	Container Type: T = Tube J = Jar M = Metal V = VOA B = Tedlar P = Plastic P = Pint G = Glass C = Can A = Amber
---	--	---

ASSET Laboratories

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

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

Cooler Received/Opened On: 3/3/2017 Workorder: N023305
 Rep sample Temp (Deg C): 4.2 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 2946 Packing Material Used: Bubble Wrap
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" 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 YR 3/4/2017

Reviewed By: MBC 3/8/2017

ASSET Laboratories

WORK ORDER Summary

09-Mar-17

WorkOrder: N023305

Client ID: CH2HI03

Project: SFPP - Norwalk

QC Level: RTNE

Date Received: 3/3/2017

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N023305-001A	INF-03-03	3/3/2017 12:30:00 PM	3/10/2017	Wastewater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
			3/10/2017		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N023305-001B			3/10/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			3/10/2017		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			3/10/2017		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N023305-002A	FOLDER	3/10/2017	3/10/2017		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB





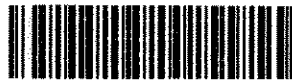
800-322-5555 www.gso.com

Ship From

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

Tracking #: 535252946

SDS



Ship To

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

LVS
LAS VEGAS

A

COD: \$0.00

Weight: 0 lb(s)

Reference:

C89102A

Delivery Instructions:

HOLD FOR PICK UP

Signature Type: REQUIRED



63633007

Print Date: 3/3/2017 5:35 PM

Package 1 of 2

LABEL INSTRUCTIONS:

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

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

4.20
FL #2