

REPORT

Third Quarter 2015 Remediation Progress Report SFPP Norwalk Pump Station Norwalk, California

Prepared for

Kinder Morgan Energy Partners, L.P.

October 15, 2015



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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 HILL licensed professional.



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Contents

Section	Page
Signature Page	iii
Acronyms and Abbreviations	vii
1 Introduction	1-1
2 Remediation Systems	2-1
3 Operations and Maintenance	3-1
4 Summary of Remediation Progress	4-1
5 System Evaluation and Optimization	5-1
6 Planned Fourth Quarter 2015 Activities	6-1
7 References	7-1

Appendix

A Laboratory Analytical Reports

Tables

1	Remediation Well Construction and Status
2	Vapor Remediation System Operation Summary
3	Remediation Well Vapor Concentrations
4	Extracted Vapor Analytical Results
5	Groundwater Remediation System Operation Summary
6	Extracted Groundwater Analytical Results
7	Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

Figures

1	Site Location Map
2	Remediation System Layout
3	Hydrographs for Select Groundwater Monitoring Wells

Acronyms and Abbreviations

µg/L	micrograms per liter
1,2-DCA	1,2-dichloroethane
Air Tech	Air Technology Laboratories
ASTM	ASTM International (formerly American Society for Testing and Materials)
ATL	Advanced Technology Laboratories
BTEX	benzene, toluene, ethylbenzene, and total xylenes
CCTV	closed-circuit television
CH2M	CH2M HILL Engineers, Inc.
EPA	U.S. Environmental Protection Agency
GWE	groundwater extraction
GWTS	groundwater treatment system
KMEP	Kinder Morgan Energy Partners, L.P.
LGAC	liquid-phase granular activated carbon
MTBE	methyl tertiary butyl ether
NPDES	National Pollutant Discharge Elimination System
O&M	operations and maintenance
OWS	oil-water separator
PID	photoionization detector
RWQCB	California Regional Water Quality Control Board, Los Angeles Region
SCAQMD	South Coast Air Quality Management District
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
TGNMOC	total gaseous non-methane organic carbon
TPH	total petroleum hydrocarbons
TPH-d	total petroleum hydrocarbons quantified as diesel
TPH-fp	total petroleum hydrocarbons quantified as fuel product
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
VGAC	vapor-phase granular activated carbon
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, located at 15306 Norwalk Boulevard, Norwalk, California (the site; Figure 1) during the third quarter 2015 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 Conceptual Site Model and Proposed Alternate Interim Remedy for Soil, Groundwater, and LNAPL (CH2M, 2013a), 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 July through September 2015 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 during July through September 2015 and the progress achieved through those activities are summarized in the following sections.

Remediation Systems

SFPP currently operates remediation systems consisting of soil vapor extraction (SVE), total fluids extraction (TFE) of free product and/or groundwater using a top-loading pump, and treatment of extracted soil vapors and groundwater to address two specific areas at and near the site: the south-central area and the southeastern area. Operation of the West Side Barrier (WSB) groundwater extraction (GWE) system (WSB system) for remediation of the western offsite area was discontinued in August 2008.

Remediation in the south-central and southeastern areas consists of SVE and TFE. At several well locations, SVE is coupled with TFE in a process referred to as dual-phase extraction. 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 thermal oxidizer where volatile organic compounds (VOCs) are converted to carbon dioxide and water prior to being discharged to the atmosphere. Operation of the GWTS and SVE is conducted in accordance with Permits to Construct (Application Nos. 569588 and 567723, respectively; ID 110835) issued by the South Coast Air Quality Management District (SCAQMD).

The main GWTS processes 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 fluids pumps are piped to an oil-water separator (OWS). Free product 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) that are not treated in the LGAC. The treated groundwater then passes through polishing LGAC units prior to discharge in accordance with a National Pollutant Discharge Elimination System (NPDES) permit (NPDES No. CA0063509, CI No. 7497).

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 third quarter 2015. The remediation system layout is presented in Figure 2.

Operations and Maintenance

During the third quarter 2015 reporting period, O&M of the remediation systems included the following tasks:

- Performed weekly maintenance and monitoring of the south-central and southeastern SVE and TFE wells, and the SVE system and GWTS (collectively referred to as remediation systems).
- Removed, inspected, and made repairs to the TFE pumps and associated discharge lines.
- Performed cleanout of the OWS, sump, equalization tank, and transfer tank.
- Replaced the broken sump pump with a new sump pump.
- Performed carbon changeout of the LGAC vessels.
- Performed carbon changeout of the vapor-phase granular activated carbon (VGAC) vessels used to treat off-gas from the product tank and OWS.

The remediation systems operated during the third quarter 2015 with the following exceptions:

- The SVE system was turned off on July 15, July 29, and August 6, 2015, for routine system maintenance. The system was restarted on the same day.
- The SVE system was shut down between August 14 and September 3, 2015, to trouble shoot the reduced destruction efficiency of the SVE. As part of this effort, a visual inspection of the SVE burner and plenum was performed using a closed-circuit television (CCTV) camera. No internal mechanical issues were noted during the inspection. Several air samples were also collected from the SVE influent, post-dilution, and effluent at different temperature and vacuum set points to determine optimum conditions for SVE performance. The system was optimized by increasing the temperature set point, increasing residence time, and maximizing the influent concentrations by shutting down low-concentration vapor extraction wells. The SVE was restarted on September 4, 2015. Further discussion of these results is provided in Section 5.
- The SVE system was turned off on September 17, 2015, in preparation for annual soil vapor sampling. The system was restarted on September 25, 2015, once the vapor sampling was completed.
- The GWTS was turned off on July 16, August 25, and September 24, 2015, to clean out the OWS, sump, equalization tank, and transfer tank. The system was restarted on the same day.
- The GWTS was off on arrival on July 6, 2015, due to a transfer tank alarm. The alarm was reset and the system was restarted on the same day.

During this reporting period, remediation system 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.

Overall, during the third quarter 2015, the SVE system was operational 66 percent of the time and the GWTS operated 98 percent of the time. Table 2 presents the SVE system operations summary. Extracted vapor photoionization detector (PID) measurements at the end of the third quarter 2015 are summarized in Table 3. Extracted vapor analytical results for the third quarter 2015 are summarized in Table 4. The groundwater remediation system operation activities for the third quarter 2015 are summarized in Table 5. The extracted groundwater analytical results for the third quarter 2015 are

summarized in Table 6. Historical (post-2007) gauging results of select TFE and SVE wells are provided in Table 7. Pre-2007 data can be found in previous semiannual groundwater monitoring reports.

Vapor samples from the SVE system influent and water samples from the GWTS influent were collected during the third quarter 2015 when the systems were in operation. During the third quarter 2015, influent vapor samples were collected on July 14, August 4, August 17, and September 1, 2015. Influent water samples were collected on July 30, August 6, and September 15, 2015, when the GWTS was operating. The water samples were delivered to Advanced Technology Laboratories (ATL) of Las Vegas, Nevada, for analysis. ATL is certified by the California Department of Public Health Environmental Laboratory Accreditation Program. The vapor samples were delivered to Air Technology Laboratories (Air Tech) of City of Industry, California, for analysis.

Air Tech analyzed the vapor samples for the following:

- Fixed gases (methane, carbon dioxide, oxygen, and argon) using ASTM International (ASTM) D1946
- Total gaseous non-methane organic compounds (TGNMOC) using SCAQMD Method 25.1
- VOCs using U.S. Environmental Protection Agency (EPA) Method TO-15

ATL 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 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

Based on weekly monitoring of the influent vapor concentration, vapor extraction flow rate, and hours of operation, the total mass of VOCs removed by SVE was 51,350 pounds during the third quarter 2015, for a cumulative mass removal of 3,274,401 pounds since SVE implementation in September 1995 (Table 2). The cumulative mass removed by SVE does not include the mass removed by naturally occurring in situ biodegradation.

A total of 1,397,963 gallons of groundwater was extracted during the third quarter 2015 (Table 5). No water was extracted from the WSB area during the third quarter 2015. Approximately 95.7 million gallons of groundwater has been extracted from the south-central, southeastern, and WSB areas since GWTS operations first began in 1996.

Groundwater extraction 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 continue to be monitored; other wells in the WSB system will be restarted if necessary.

The amount of free product that accumulated in the product holding tank of the GWTS was estimated to be 682 gallons during the third quarter 2015. In addition, 98 gallons of product were manually bailed from a select group of wells that do not have TFE pumps (GMW-22, GMW-O-12, GMW-O-21, GWR-3, and MW-SF-9) during the third quarter 2015. Since 1995, a total of 13,086 gallons of product has been removed by TFE, vacuum truck, or manual bailing operations. Beginning in March 2015 of the first quarter 2015, some online TFE wells were gauged and pump inlets were reset to maximize product removal. These activities will continue into the fourth quarter 2015 until all pumps are reset.

The estimated mass removal (pounds) of hydrocarbons by the GWTS is shown in Table 5. Mass removal estimates between 1996 and 2005 are based on benzene, toluene, ethylbenzene, and total xylenes (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 TPH-g and TPH quantified as fuel product (TPH-fp) concentrations, and total volume of extracted groundwater. Mass removal estimates between 2012 and 2015 are based on groundwater influent TPH-total (TPH-g, TPH-d, and TPH-o) concentrations and total volume of extracted groundwater. Since GWE first began in 1996, hydrocarbon mass removed by the GWTS is estimated to be 13,289 pounds. During the third quarter 2015, the mass removal of hydrocarbons was estimated to be 1,296 pounds. Since the first quarter 2014 there has been significantly more hydrocarbon removal than previous quarters. The increase in mass removal during the third quarter 2015, and since the first quarter 2014, is attributed to the higher TPH-total concentrations in the groundwater influent. The maximum TPH-total concentration in the third quarter 2015 was 129,000 micrograms per liter ($\mu\text{g/L}$) (Table 6). The higher concentrations of TPH-total are attributed to the free product that is emulsified in the groundwater influent during TFE operations. As discussed in Section 5, the measurable free product thickness in some TFE wells has increased recently because of continued declining water levels across the site due to drought conditions.

System Evaluation and Optimization

On August 14, 2015, the SVE system was shut down to troubleshoot the reduced destruction efficiency of the SVE. As part of this effort, several air samples were collected at different points in the treatment system (influent, post-dilution, and effluent) and analyzed for total VOCs. Samples were collected under different operational conditions including flow rate, vacuum, combustion temperature, and influent concentration. Data indicate that SVE destruction efficiency was improved by decreasing the process flow rate, which increased residence time in the combustion chamber, and increasing combustion temperature. These conditions were achieved by shutting off SVE wells exhibiting the lowest VOC concentrations (measured using a PID) and increasing the combustion temperature set point. PID readings collected on September 1 and 17, 2015, are shown in Table 3.

On August 26, 2014, a CCTV (video) survey also was performed on the SVE combustion chamber and plenum to rule out any mechanical issues that may have been contributing to the reduced performance. No mechanical issues were noted during the video survey. Based on these results, the SVE resumed full operation on September 4, 2015. The SVE combustion set point was increased to 1,450 degrees Fahrenheit (°F). Monitoring of individual vapor extraction wells will be conducted routinely to ensure that the wells with the highest concentrations remain online.

The first semiannual 2015 groundwater monitoring event in the WSB region occurred during the second quarter 2015. Monitoring results support the continued shutdown of GWE in the WSB region. 1,2-DCA, MTBE, and TBA concentrations in the western area will continue to be monitored. The WSB system will be restarted if necessary. The second semiannual 2015 groundwater monitoring event will be conducted in October 2015. Results will be presented in the Second Semiannual 2015 Groundwater Monitoring Report due to the RWQCB in January 2016.

As shown in Table 7, measurable free product was observed in 24 remediation wells during the first semiannual 2015 groundwater monitoring event (conducted in the second quarter of 2015). The product thicknesses for these wells ranged from 0.12 foot in MW-SF-6 to 9.02 feet in MW-SF-9. It is believed that increased product thicknesses observed are indicative of declining water levels across the site (Figure 3). The current low water levels have allowed residual product to drain from pore spaces within the smear zone and collect in certain wells, or increase in thickness in wells with measureable product already present. The water table elevation is related to annual rainfall and the cumulative rainfall over time. As shown in Figure 3, since the 2005/2006 El Niño, groundwater elevations in the uppermost aquifer have declined approximately 5 feet to the current low water levels across the site. Continued TFE extraction will remove the product that has accumulated due to these low water levels.

The TFE system currently consists of 15 wells operated for product recovery and hydraulic control in the south-central part of the site, and 4 wells equipped with TFE pumps operated for product recovery and hydraulic control in the southeastern part of the site (Table 1). TFE operations from these wells will continue and pump inlets will be adjusted, as needed, to optimize product recovery.

Planned Fourth Quarter 2015 Activities

During the fourth quarter 2015, SFPP plans to continue to focus remedial efforts on the south-central and southeastern areas. The following maintenance activities are planned to be completed during the fourth quarter 2015:

- Continue weekly maintenance and monitoring of the south-central and southeastern SVE and TFE/GWE treatment systems.
- 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.
- Install the new OWS to allow more efficient removal of free product from the influent stream.
- Continue installation of biosparge ancillary equipment including electrical.
- Conduct biosparge pilot testing, as outlined in the *Horizontal Biosparge System Construction and Pilot Test Work Plan* submitted to the RWQCB on November 18, 2013 (CH2M, 2013b).

The TFE, GWE, and SVE systems for the south-central and southeastern areas will continue to operate. Operation of the TFE system in the southeastern area will be monitored closely, and adjustments will be made to improve fluid recovery. System inspections will continue on a weekly basis; system evaluation parameters will be collected as needed. The remediation activities and progress for the fourth quarter 2015 will be described in the Fourth Quarter 2015 Remediation Progress Report, to be submitted by January 15, 2016.

Field activities are currently underway to install the horizontal biosparge system as described in the pilot test work plan (CH2M, 2013b) and the response to RWQCB comments on the work plan (CH2M, 2014). The RWQCB approved the pilot test work plan in a letter dated February 26, 2014 (RWQCB, 2014). The purpose of the biosparge system is to enhance mass removal of free-phase and dissolved-phase hydrocarbon constituents beneath the south-central area of the site. Pilot testing of the system is planned to be conducted for a period of approximately 1 year in order to evaluate the feasibility of system expansion. The horizontal biosparge well was installed in August 2014; the installation of the aboveground portion of the system (air compressor, piping, and electrical) is planned to be completed early in the fourth quarter 2015. Monthly progress reports on the pilot testing activities will be submitted to RWQCB once testing begins and until completion of the pilot test, as requested in RWQCB's letter (RWQCB, 2014).

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.

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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 Third Quarter 2015	
						SVE	TFE/GWE
South-Central	MW-SF-1	6/18/1990	78.93	25 - 40	SVE	ON	OFF
	MW-SF-2	6/18/1990	78.53	25 - 40	SVE; TFE	ON	ON
	MW-SF-3	6/18/1990	78.12	25 - 40	SVE; TFE	ON	ON
	MW-SF-4	6/19/1990	79.38	25 - 40	SVE	ON	OFF
	MW-SF-5	9/19/1990	79.74	23 - 38	SVE	ON	OFF
	MW-SF-6	9/19/1990	76.80	25 - 40	SVE; TFE	ON	ON
	MW-SF-9	6/15/1995	74.10	--	SVE	ON	ON
	MW-SF-10	9/23/2003	76.53	10 - 30	SVE	ON	OFF
	MW-SF-11	6/19/2007	78.56	20 - 40	SVE; TFE	ON	ON
	MW-SF-12	6/18/2007	78.07	20 - 40	SVE; TFE	ON	ON
	MW-SF-13	6/19/2007	73.40	20 - 40	SVE; TFE	ON	OFF
	MW-SF-14	6/21/2007	78.16	20 - 40	SVE; TFE	ON	ON
	MW-SF-15	6/21/2007	78.27	20 - 40	SVE; TFE	ON	OFF
	MW-SF-16	6/20/2007	78.21	20 - 40	SVE; TFE	ON	ON
	GMW-9	7/8/1991	77.16	20 - 50	SVE; TFE	ON	ON
	GMW-10	7/8/1991	N/A	25 - 50	SVE; TFE	ON	OFF
	GMW-22	8/2/1991	77.24	25 - 60	SVE; TFE	ON	ON
	GMW-24	8/5/1991	77.48	25 - 60	SVE; TFE	ON	ON
	GMW-25	1/10/1992	78.14	20 - 50	SVE; TFE	ON	ON
	GWR-3	1/10/1992	77.60	20 - 50	SVE; TFE	ON	OFF
	VEW-1	09/19/90	--	5 - 25	SVE	ON	OFF
	VEW-2	09/19/90	--	5 - 25	SVE	ON	OFF
	MW-O-1	1/22/1991	75.48	25 - 40	SVE; TFE	ON	OFF
	MW-O-2	1/23/1991	71.90	25 - 40	SVE; TFE	ON	OFF
	GMW-O-11	5/20/1992	74.17	20 - 50	SVE; TFE	ON	ON
	GMW-O-12	5/21/1992	73.49	20 - 50	SVE	ON	OFF
	GMW-O-20	6/15/1995	73.32	--	SVE; TFE	ON	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	ON	ON
	MW-18 (MID)	6/10/1991	75.67	50 - 60	SVE	ON	OFF
HW-1	09/06/92	--	--	SVE	ON	OFF	
HW-2	09/06/92	--	--	SVE	ON	OFF	
Southeastern	GMW-O-15	4/19/1994	74.23	20 - 50	SVE; TFE	ON	ON
	GMW-O-18	7/25/1994	74.36	21 - 40	SVE; TFE	ON	ON
	GMW-36	4/11/1994	76.66	20 - 50	SVE; TFE	ON	ON
	GMW-SF-9	4/1/2003	73.05	37 - 46	TFE	--	ON
	GMW-SF-10	4/2/2003	75.77	37 - 46	TFE	--	OFF
West Side Barrier	BW-2	5/20/1996	73.57	27 - 47	GWE	NA	OFF
	BW-3	5/17/1996	74.16	31 - 50	GWE	NA	OFF
	BW-4	5/20/1996	74.61	28 - 47	GWE	NA	OFF
	BW-5	5/23/1996	73.59	27 - 46	GWE	NA	OFF
	BW-6	5/22/1996	73.48	28 - 47	GWE	NA	OFF
	BW-7	5/22/1996	74.65	27 - 46	GWE	NA	OFF
	BW-8	5/21/1996	75.08	27 - 46	GWE	NA	OFF
	BW-9	5/21/1996	76.19	27 - 46	GWE	NA	OFF

Notes:

-- = information not available

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

NA = not applicable

SVE = soil vapor extraction

TFE = total fluids extraction

Table 2. Vapor Remediation System Operation Summary

SFPP Norwalk Pump Station, Norwalk, California

System Inspection Date	Cumulative Hours of Operation (hours)	Incremental Hours of Operation (hours)	Influent PID Reading (ppmv as hexane)	System Flow (scfm)	Header Vacuum (in. H ₂ O)	Mass Removed (pounds) ^a
1995 Totals	1,240		--	--	--	281,065
1996 Totals	7,208	5,968	--	--	--	516,717
1997 Totals	12,865	5,657	--	--	--	489,526
1998 Totals	17,877	5,012	--	--	--	223,055
1999 Totals	23,600	5,723	--	--	--	390,836
2000 Totals	29,690	6,090	--	--	--	359,092
2001 Totals	33,671	3,981	--	--	--	224,091
2002 Totals	36,358	2,687	--	--	--	79,363
2003 Totals	39,676	3,319	--	--	--	64,671
2004 Totals	44,193	4,517	--	--	--	120,240
2005 Totals	49,750	5,557	--	--	--	212,175
2006 Totals	52,735	2,985	--	--	--	17,263
2007 Totals ³	58,319	2,058	--	--	--	7,378
2008 Totals	64,233	5,915	--	--	--	5,878
2009 Totals	68,858	4,625	--	--	--	9,387
2010 Totals	72,369	3,511	--	--	--	1,507
2011 Totals	77,489	5,120	--	--	--	14,629
2012 Totals	84,173	6,684	--	--	--	22,260
2013 Totals	90,414	6,241	--	--	--	90,880
2014 Totals	94,083	3,688	--	--	--	67,744
First Quarter 2015 Totals	94,144	--	--	--	--	2,918
Second Quarter 2015 Totals	95,286	--	--	--	--	22,377
7/7/15	95,451	165	1,544	1,919	30	2,385
7/14/15	95,619	168	2,334	1,875	35	3,689
7/16/15	95,648	29	--	--	--	644
7/21/15	95,766	118	10,000	1,673	40	12,630
7/24/15	95,839	72	--	1,624	45	7,710
7/28/15	95,936	97	1,524	1,608	45	1,518
7/29/15	95,952	16	--	1,671	45	255
8/4/15	96,089	137	1,498	1,765	45	2,037
8/6/15	96,143	53	--	1,724	35	832
8/11/15	96,263	121	1,516	1,691	40	1,932
8/13/15	96,312	49	--	1,698	38	779
8/17/15	96,315	3	1,444	--	--	50
8/18/15	96,315	0	--	--	--	0
8/25/15	96,315	0	--	--	--	0
9/1/15	96,315	0	--	--	--	0
9/4/15	96,320	5	2,318	1,821	35	97
9/9/15	96,440	120	2,940	1,195	75	4,784
9/15/15	96,581	141	3,254	1,325	75	6,702
9/17/15	96,630	49	--	1,310	75	2,334
9/22/15	96,630	0	--	--	--	0
9/25/15	96,630	0	2,818	--	60	0
9/29/15	96,720	90	2,116	1,406	65	2,974
Third Quarter 2015 Totals	96,720	--	--	--	--	51,350
Cumulative Totals	96,720	--	--	--	--	3,274,401

Notes:

^a The total mass removed is based on influent FID or PID readings, hours of operation, and flow rate.

-- = not applicable or not available

FID = flame ionization detector

in. H₂O = inches of water

PID = photoionization detector

ppmv = parts per million by volume

scfm = standard cubic feet per minute

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

Table 3. Remediation Well Vapor Concentrations
SFPP Norwalk Pump Station, Norwalk, California

Remediation Area	Remediation Well ID	Remediation Well Function	9/1/2015 (ppmv as Hexane) ^a	9/17/2015 (ppmv as Hexane) ^a
South-Central	MW-SF-1	SVE	1,302	1,176
	MW-SF-2	SVE; TFE	700	532
	MW-SF-3	SVE; TFE	2,524	1,818
	MW-SF-4	SVE	238	168
	MW-SF-5	SVE	172	298
	MW-SF-6	SVE; TFE	4,090	3,322
	MW-SF-9	SVE	658	116
	MW-SF-10	SVE	154	84
	MW-SF-11	SVE; TFE	520	176
	MW-SF-12	SVE; TFE	>5000	3,910
	MW-SF-13	SVE; TFE	1,330	726
	MW-SF-14	SVE; TFE	574	722
	MW-SF-15	SVE; TFE	2,838	638
	MW-SF-16	SVE; TFE	2,654	1,218
	GMW-9	SVE; TFE	2,750	142
	GMW-10	SVE	1,848	1,860
	GMW-22	SVE; TFE	2,750	142
	GMW-24	SVE; TFE	948	848
	GMW-25	SVE; GWE	948	818
	GWR-3	SVE; GWE	>5000	4,350
	VEW-1	SVE	130	382
	VEW-2	SVE	158	2510
	MW-O-1	SVE; TFE	168	386
	MW-O-2	SVE; TFE	1,414	914
	GMW-O-11	SVE; TFE	>5000	>5000
	GMW-O-12	SVE	368	>5000
	GMW-O-20	SVE; TFE	>5000	>5000
	GMW-O-23	SVE; TFE	172	>5000
	MW-18 (MID)	SVE	200	462
	HW-1	SVE	444	944
HW-2	SVE	154	2,356	
Southeastern	GMW-36	SVE; TFE	2,398	4,334
	GMW-O-15	SVE; TFE	2,398	4,334
	GMW-O-18	SVE; TFE	2,398	4,334

Notes:

^a Vapor readings measured in the field with an Eagle 2 photoionization detector (PID)

calibrated using 100 ppmv of hexane.

GWE = groundwater extraction

ppmv = parts per million by volume

SVE = soil vapor extraction

TFE = total fluids extraction

Table 4. Extracted Vapor Analytical Results^a

SFPP Norwalk Pump Station, Norwalk, California

Date Sampled	ASTM D-1946			EPA TO-3	SCAQMD 25.1	EPA TO-15 (VOCs) ^b				
	Methane (%v)	Carbon Dioxide (%v)	Oxygen and Argon (%v)	TPH-g (ppmv)	TGNMOC (ppmv)	Benzene (ppbv)	Ethylbenzene (ppbv)	Toluene (ppbv)	Xylenes (ppbv)	MTBE (ppbv)
8/3/2007	<0.5	<0.5	22.0	63	---	650	220	1,100	1,420	55
9/5/2007	<0.5	<0.5	22.0	9	---	32	48	140	320	18
10/2/2007	<0.5	<0.5	21.9	27	---	250	75	430	610	20
11/2/2007	<0.5	<0.5	22.1	5	---	40	10	74	95	7
2/1/2008	<0.5	<0.5	21.8	100	---	830	260	2,200	1,850	<50
3/4/2008	<0.5	<0.5	21.7	50	---	380	98	570	1,250	36
4/8/2008	<0.5	<0.5	22.2	69	---	290	110	480	1,040	41
5/23/2008	<0.5	<0.5	21.8	14	---	180	24	190	280	23
6/3/2008	<0.5	<0.5	21.7	30	---	380	42	400	330	70
7/2/2008	<0.5	<0.5	21.4	49	---	32	6	34	45	10
8/19/2008	<0.5	1.7	20.8	50	---	390	63	230	450	40
9/5/2008	<0.5	2.0	21.2	22	---	130	39	130	340	42
10/7/2008	<0.5	1.43	21.4	10	---	41	15	54	181	6.8
11/4/2008	<0.5	2.08	21.1	7.5	---	31	47	190	242	<2.0
3/6/2009	<0.5	<0.5	22.0	83	---	1,900	180	990	770	240
4/17/2009	<0.5	<0.5	22.2	3.1	---	140	8	37	68	26
5/29/2009	<0.5	1.08	21.0	130	---	1,700	640	3,700	3,100	100
8/18/2009	<0.5	0.78	21.7	28	---	380	37	290	310	33
8/25/2009	<0.5	0.87	20.6	37	---	500	44	320	293	20
9/18/2009	<0.5	0.37	21.6	11	---	75	11	39	107	3
10/29/2009	<0.5	1.80	18.2	77	---	350	45	250	440	4
11/25/2009	<0.5	<0.5	21.1	14	---	110	12	110	164	11
12/15/2009	<0.5	<0.5	21.7	7	---	28	3	20	47	<3.2
2/26/2010	<0.5	0.4	21.2	20	---	300	18	220	260	21
3/26/2010	<0.5	1.0	20.2	18	---	380	20	110	90	5
5/4/2010	<0.5	0.4	21.4	13	---	100	42	170	222	3
6/29/2010	<0.5	0.4	21.3	9	---	74	13	66	82	<5.0
8/3/2010	<0.5	0.6	20.4	29	---	210	13	64	85	9
8/31/2010	0.0039 ^c	<0.5	21.4	11	---	72	12	66	87	8
9/14/2010	<0.5	<0.5	21.6	6	---	63	15	57	84	<3.2
11/2/2010	--	--	--	11	---	140	<10	31	28	<10
11/17/2010	0.00075	0.4	22.0	--	---	--	--	--	--	--
12/28/2010	0.0052	0.27	22.0	16	---	160	37	230	324	4.5
1/14/2011	0.016	0.20	22.0	68	---	340	34	89	183	<10
2/8/2011	0.026	0.24	21.0	210	---	3,000	1,700	11,000	7,400	110
3/29/2011	0.013	0.13	20.0	5	---	170	15	18	41.5	<2.5
4/26/2011	0.0011	0.079	20.0	1.9	---	16	2.4	8.8	7.7	<1.2
5/17/2011	0.021	0.65	22.0	90	---	2,600	140	2,200	1,100	220
6/17/2011	0.001	0.20	22.0	3	---	59	8.1	31	56	<0.25
7/19/2011	0.0056	0.49	22.0	80	---	1,800	130	2,200	1,000	<31
8/16/2011	0.0026	0.31	22.0	140	---	3,000	600	4,000	2,330	490
9/20/2011	--	--	--	100	---	2,100	740.0	2,700	2,040	660
11/22/2011	0.070	0.70	20.0	11	---	150	12.0	67	35	<5.0
12/20/2011	0.020	0.34	22.0	0	---	110	<25	260	216	<25
1/10/2012	0.010	0.66	20.0	11	---	150	14	86	160	<12
2/28/2012	0.0067	0.90	20.0	27	---	140	42	140	224	<25
3/13/2012	0.0044	0.71	20.0	27	---	440	38	450	241	<25
4/27/2012	0.0290	0.22	21.0	39	---	540	42	630	299	<25
5/22/2012	0.0100	0.31	20.0	65	---	590	350	770	2,070	<12
6/19/2012	0.0028	0.41	21.0	17	---	130	26	150	162	<12
7/27/2012	0.0059	0.40	21.0	13	---	46	<5	33	78	<5
8/30/2012	0.0049	0.56	21.0	69	---	150	<25	66	194	<25
9/25/2012	0.0073	0.80	21.0	57	---	190	19	120	283	<2.5
10/30/2012	0.0099	0.96	21.0	50	---	380	<50	230	130	<50
12/11/2012	0.0074	0.84	21.0	53	---	130	17	110	173	<5.0

Table 4. Extracted Vapor Analytical Results^a

SFPP Norwalk Pump Station, Norwalk, California

Date Sampled	ASTM D-1946			EPA TO-3	SCAQMD 25.1	EPA TO-15 (VOCs) ^b				
	Methane (%v)	Carbon Dioxide (%v)	Oxygen and Argon (%v)	TPH-g (ppmv)	TGNMOC (ppmv)	Benzene (ppbv)	Ethylbenzene (ppbv)	Toluene (ppbv)	Xylenes (ppbv)	MTBE (ppbv)
1/29/2013	0.0028	0.29	22.0	1.4	---	8.7	<1.2	9.4	9.6	<1.2
2/12/2013	0.0057	0.88	21.0	60	---	500	<50	440	400	<50
3/19/2013	0.0058	0.80	21.0	77	---	560	66	490	520	<40
4/16/2013	0.0079	0.74	21.0	53	---	430	29	240	193	<25
5/14/2013	0.017	1.6	19	280	---	1,700	190	1,800	840	<12
6/28/2013	0.0068	<0.010	21	22	---	190	<25	130	131	<25
SVE system down for repair from July 16, 2013, to September 17, 2013.										
9/20/2013	0.014	1	21	590	---	4,200	520	3,600	2,830	<40
10/15/2013	0.011	0.68	21	410	---	3,500	360	2,800	1,970	<20
11/12/2013	0.012	0.66	21	430	---	2,900	440	2,600	1,930	<15
12/10/2013	0.013	0.92	21	910	---	8,400	920	7,200	5,500	<50
1/17/2014	0.0077	0.57	21	350	---	6,600	6,800	8,200	23,300	3,000
2/11/2014	0.011	0.60	21	640	---	6,600	570	6,000	3,800	<100
3/21/2014	0.0050	0.40	21	390	---	4,500	290	4,000	1,930	<50
4/21/2014	0.011	0.65	21	700	---	6,900	370	6,900	3,400	<40
SVE system down for repair from April 29, 2014 to May 13, 2014.										
5/27/2014	0.011	0.56	21	530	---	6,600	570	8,900	3,820	<50
6/13/2014	0.0076	0.49	21	780	---	10,000	1,200	15,000	7,100	<80
SVE system down for repair and permit modification from July 1, 2014 to March 27, 2015.										
3/31/2015	0.090	1.3	20	1,400	1,300	12,000	1,000	11,000	7,400	<200
4/7/2015	0.014	0.56	21	---	710	8,200	8,200	610	3,260	<160
5/5/2015	---	---	---	---	760	6,100	1,100	9,600	7,200	<140
6/30/2015	0.0065	0.37	21	---	270	3,100	380	3,800	2,820	<160
7/14/2015	0.0094	0.62	21	---	650	7,000	950	7,900	6,100	<200
8/4/2015	0.0053	0.49	21	---	560	6,200	710	7,700	4,800	<0.097
8/17/2015 ^c	---	---	---	---	470	4,800	500	5,400	3,600	<0.099
8/17/2015 ^c	---	---	---	---	470	5,000	520	5,800	3,870	<0.100
8/17/2015 ^c	---	---	---	---	480	5,100	580	6,100	4,000	<0.097
8/17/2015 ^c	---	---	---	---	480	5,200	580	6,300	4,100	<0.099
9/1/2015 ^c	---	---	---	---	670	7,000	850	8,700	6,900	<0.097
9/1/2015 ^c	---	---	---	---	930	12,000	1,500	14,000	11,400	<0.140
9/1/2015 ^c	---	---	---	---	890	12,000	2,300	20,000	14,300	<0.140

Notes:

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

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

^c Influent vapor samples were collected after dilution before entrance into the SVE combustion chamber

%v = percent by volume

<0.5 = not detected at or above the laboratory reporting limit shown

ASTM = ASTM International (formerly American Society for Testing and Materials)

EPA = U.S. Environmental Protection Agency

MTBE = methyl tertiary butyl ether

ppbv = parts per billion by volume

ppmv = parts per million by volume

SCAQMD = South Coast Air Quality Management District

TGNMOC = total gaseous non-methane organic carbon

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

VOC = volatile organic compound

Table 5. 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	10
2003 Totals	1,607,095	2,281,956	3,889,051	--	65	0
2004 Totals	1,695,361	3,854,470	5,549,831	--	229	83
2005 Totals	1,537,925	4,244,674	5,782,599	--	273	89
2006 Totals	1,699,567	5,089,615	6,789,182	--	684	0
2007 Totals	3,368,481	2,167,724	5,536,205	--		0
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	2,244	3,344,471	--	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	6,439,776	0	6,439,776	--	568	2
2014 Totals	3,410,458	0	3,410,458	--	2,236	2,335
1/1/2015	10,913	0	10,913	28,082	2.55	
1/2/2015	10,821	0	10,821	28,082	2.53	
1/3/2015	10,687	0	10,687	28,082	2.50	
1/4/2015	10,742	0	10,742	28,082	2.51	
1/5/2015	10,680	0	10,680	28,082	2.50	
1/6/2015	10,811	0	10,811	28,082	2.53	
1/7/2015	11,045	0	11,045	28,082	2.58	
1/8/2015	11,608	0	11,608	28,082	2.72	
1/9/2015	11,618	0	11,618	28,082	2.72	
1/10/2015	11,476	0	11,476	28,082	2.68	
1/11/2015	11,658	0	11,658	28,082	2.73	
1/12/2015	11,871	0	11,871	28,082	2.78	
1/13/2015	11,554	0	11,554	28,082	2.70	
1/14/2015	11,422	0	11,422	28,082	2.67	
1/15/2015	11,596	0	11,596	13,870	1.34	
1/16/2015	10,368	0	10,368	13,870	1.20	
1/17/2015	7,837	0	7,837	13,870	0.91	

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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)
1/18/2015	7,927	0	7,927	13,870	0.92	
1/19/2015	7,781	0	7,781	13,870	0.90	
1/20/2015	7,654	0	7,654	13,870	0.88	
1/21/2015	7,528	0	7,528	13,870	0.87	
1/22/2015	7,584	0	7,584	13,870	0.88	
1/23/2015	7,539	0	7,539	13,870	0.87	
1/24/2015	7,541	0	7,541	13,870	0.87	
1/25/2015	6,649	0	6,649	13,870	0.77	
1/26/2015	6,671	0	6,671	13,870	0.77	
1/27/2015	6,624	0	6,624	13,870	0.77	
1/28/2015	10,345	0	10,345	13,870	1.20	
1/29/2015	13,323	0	13,323	13,870	1.54	
1/30/2015	14,402	0	14,402	13,870	1.66	
1/31/2015	14,510	0	14,510	13,870	1.68	
2/1/2015	14,207	0	14,207	13,870	1.64	
2/2/2015	14,066	0	14,066	13,870	1.63	
2/3/2015	13,888	0	13,888	13,870	1.60	51
2/4/2015	11,288	0	11,288	13,870	1.30	
2/5/2015	13,952	0	13,952	13,870	1.61	
2/6/2015	13,898	0	13,898	13,870	1.61	
2/7/2015	14,049	0	14,049	13,870	1.62	
2/8/2015	14,405	0	14,405	13,870	1.66	
2/9/2015	14,443	0	14,443	13,870	1.67	
2/10/2015	14,369	0	14,369	13,870	1.66	
2/11/2015	13,976	0	13,976	13,870	1.61	
2/12/2015	14,102	0	14,102	13,870	1.63	
2/13/2015	13,681	0	13,681	13,870	1.58	
2/14/2015	12,679	0	12,679	13,870	1.47	
2/15/2015	12,363	0	12,363	13,870	1.43	
2/16/2015	12,454	0	12,454	13,870	1.44	
2/17/2015	12,388	0	12,388	13,870	1.43	
2/18/2015	12,254	0	12,254	13,870	1.42	
2/19/2015	12,249	0	12,249	13,870	1.42	
2/20/2015	12,218	0	12,218	170,000	17.30	
2/21/2015	12,330	0	12,330	170,000	17.46	
2/22/2015	12,045	0	12,045	170,000	17.06	

Table 5. 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)
2/23/2015	12,296	0	12,296	170,000	17.41	
2/24/2015	11,970	0	11,970	170,000	16.95	
2/25/2015	12,506	0	12,506	170,000	17.71	
2/26/2015	13,326	0	13,326	170,000	18.87	
2/27/2015	13,753	0	13,753	170,000	19.48	
2/28/2015	14,863	0	14,863	170,000	21.05	
3/1/2015	16,692	0	16,692	170,000	23.64	
3/2/2015	16,641	0	16,641	170,000	23.57	
3/3/2015	16,327	0	16,327	560,000	76.17	
3/4/2015	9,045	0	9,045	560,000	42.20	
3/5/2015	13,227	0	13,227	560,000	61.71	
3/6/2015	13,196	0	13,196	560,000	61.56	15
3/7/2015	10,926	0	10,926	560,000	50.97	
3/8/2015	13,966	0	13,966	560,000	65.16	
3/9/2015	13,503	0	13,503	560,000	63.00	
3/10/2015	13,899	0	13,899	560,000	64.84	
3/11/2015	13,430	0	13,430	560,000	62.66	
3/12/2015	11,271	0	11,271	560,000	52.58	
3/13/2015	11,384	0	11,384	560,000	53.11	
3/14/2015	11,744	0	11,744	560,000	54.79	
3/15/2015	5,739	0	5,739	560,000	26.77	
3/16/2015	0	0	0	560,000	0.00	
3/17/2015	3	0	3	560,000	0.01	
3/18/2015	10	0	10	560,000	0.05	
3/19/2015	0	0	0	560,000	0.00	
3/20/2015	1	0	1	560,000	0.00	
3/21/2015	53	0	53	560,000	0.25	
3/22/2015	10	0	10	560,000	0.05	
3/23/2015	14	0	14	560,000	0.07	
3/24/2015	3,925	0	3,925	560,000	18.31	
3/25/2015	6,867	0	6,867	560,000	32.04	
3/26/2015	5,172	0	5,172	560,000	24.13	
3/27/2015	9,598	0	9,598	560,000	44.78	
3/28/2015	10,570	0	10,570	560,000	49.31	
3/29/2015	10,075	0	10,075	560,000	47.00	
3/30/2015	8,769	0	8,769	560,000	40.91	

Table 5. 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)
3/31/2015	7,259	0	7,259	560,000	33.87	
First Quarter 2015 Totals	936,119	0	936,119	--	1,321	66
4/1/2015	4,957	0	4,957	560,000	23.13	
4/2/2015	12,261	0	12,261	560,000	57.20	
4/3/2015	11,958	0	11,958	560,000	55.79	
4/4/2015	11,934	0	11,934	560,000	55.68	
4/5/2015	12,161	0	12,161	560,000	56.74	
4/6/2015	12,183	0	12,183	560,000	56.84	
4/7/2015	11,621	0	11,621	200,000	19.36	
4/8/2015	12,053	0	12,053	200,000	20.08	
4/9/2015	15,447	0	15,447	200,000	25.74	
4/10/2015	14,531	0	14,531	200,000	24.21	
4/11/2015	15,151	0	15,151	200,000	25.24	
4/12/2015	15,870	0	15,870	200,000	26.44	
4/13/2015	15,240	0	15,240	200,000	25.39	
4/14/2015	9,612	0	9,612	200,000	16.02	
4/15/2015	0	0	0	200,000	0.00	
4/16/2015	0	0	0	200,000	0.00	
4/17/2015	4	0	4	200,000	0.01	
4/18/2015	2	0	2	200,000	0.00	
4/19/2015	6	0	6	200,000	0.01	
4/20/2015	5	0	5	200,000	0.01	
4/21/2015	15	0	15	200,000	0.02	
4/22/2015	43	0	43	200,000	0.07	
4/23/2015	6,605	0	6,605	200,000	11.01	
4/24/2015	14,670	0	14,670	200,000	24.44	454
4/25/2015	13,734	0	13,734	200,000	22.88	
4/26/2015	12,820	0	12,820	200,000	21.36	
4/27/2015	12,774	0	12,774	200,000	21.28	
4/28/2015	12,721	0	12,721	200,000	21.20	
4/29/2015	12,721	0	12,721	200,000	21.20	
4/30/2015	12,721	0	12,721	200,000	21.20	
5/1/2015	15,855	0	15,855	200,000	26.42	
5/2/2015	12,762	0	12,762	200,000	21.26	
5/3/2015	12,629	0	12,629	200,000	21.04	
5/4/2015	12,693	0	12,693	200,000	21.15	

Table 5. 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)
5/5/2015	12,475	0	12,475	200,000	20.79	
5/6/2015	12,934	0	12,934	200,000	21.55	
5/7/2015	15,213	0	15,213	200,000	25.35	
5/8/2015	14,666	0	14,666	200,000	24.44	
5/9/2015	14,387	0	14,387	200,000	23.97	
5/10/2015	14,583	0	14,583	200,000	24.30	
5/11/2015	14,565	0	14,565	200,000	24.27	
5/12/2015	15,012	0	15,012	200,000	25.01	
5/13/2015	6,923	0	6,923	200,000	11.54	
5/14/2015	5,915	0	5,915	200,000	9.86	
5/15/2015	0	0	0	200,000	0.00	
5/16/2015	6,020	0	6,020	200,000	10.03	
5/17/2015	11,405	0	11,405	200,000	19.00	
5/18/2015	9,554	0	9,554	200,000	15.92	
5/19/2015	6,290	0	6,290	165,400	8.67	20
5/20/2015	9,715	0	9,715	165,400	13.39	
5/21/2015	11,156	0	11,156	165,400	15.37	18
5/22/2015	10,751	0	10,751	165,400	14.81	359
5/23/2015	9,773	0	9,773	165,400	13.47	
5/24/2015	8,601	0	8,601	165,400	11.85	
5/25/2015	8,503	0	8,503	165,400	11.72	
5/26/2015	8,335	0	8,335	165,400	11.49	
5/27/2015	8,017	0	8,017	165,400	11.05	
5/28/2015	7,814	0	7,814	165,400	10.77	
5/29/2015	7,864	0	7,864	165,400	10.84	16
5/30/2015	7,581	0	7,581	165,400	10.45	
5/31/2015	7,695	0	7,695	165,400	10.60	
6/1/2015	7,638	0	7,638	165,400	10.52	
6/2/2015	7,641	0	7,641	170,100	10.83	8
6/3/2015	7,967	0	7,967	170,100	11.29	
6/4/2015	7,854	0	7,854	170,100	11.13	14
6/5/2015	9,216	0	9,216	170,100	13.06	
6/6/2015	11,291	0	11,291	170,100	16.00	
6/7/2015	8,542	0	8,542	170,100	12.11	
6/8/2015	8,537	0	8,537	170,100	12.10	
6/9/2015	9,920	0	9,920	170,100	14.06	

Table 5. 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)
6/10/2015	10,608	0	10,608	170,100	15.03	
6/11/2015	12,232	0	12,232	170,100	17.33	
6/12/2015	12,208	0	12,208	170,100	17.30	12
6/13/2015	11,952	0	11,952	170,100	16.94	
6/14/2015	12,036	0	12,036	170,100	17.06	
6/15/2015	11,935	0	11,935	170,100	16.91	
6/16/2015	11,747	0	11,747	170,100	16.65	
6/17/2015	10,637	0	10,637	170,100	15.07	
6/18/2015	16,194	0	16,194	170,100	22.95	
6/19/2015	16,581	0	16,581	170,100	23.50	10
6/20/2015	16,496	0	16,496	170,100	23.38	
6/21/2015	16,352	0	16,352	170,100	23.17	
6/22/2015	16,156	0	16,156	170,100	22.90	
6/23/2015	16,129	0	16,129	170,100	22.86	
6/24/2015	18,827	0	18,827	170,100	26.68	
6/25/2015	21,621	0	21,621	170,100	30.64	
6/26/2015	23,039	0	23,039	170,100	32.65	11
6/27/2015	27,841	0	27,841	170,100	39.45	
6/28/2015	10,696	0	10,696	170,100	15.16	
6/29/2015	27,653	0	27,653	170,100	39.19	
6/30/2015	8,302	0	8,302	170,100	11.76	
Second Quarter 2015 Totals	1,001,354	0	1,001,354	--	1,731	920
7/1/2015	21,875	0	21,875	170,100	31.00	
7/2/2015	25,155	0	25,155	170,100	35.65	9
7/3/2015	22,810	0	22,810	170,100	32.32	
7/4/2015	17,139	0	17,139	170,100	24.29	
7/5/2015	15,601	0	15,601	170,100	22.11	
7/6/2015	22,666	0	22,666	170,100	32.12	
7/7/2015	10,014	0	10,014	170,100	14.19	161
7/8/2015	19,020	0	19,020	170,100	26.95	
7/9/2015	20,882	0	20,882	170,100	29.59	
7/10/2015	12,839	0	12,839	170,100	18.19	
7/11/2015	19,069	0	19,069	170,100	27.02	
7/12/2015	18,746	0	18,746	170,100	26.57	
7/13/2015	18,640	0	18,640	170,100	26.42	
7/14/2015	18,720	0	18,720	170,100	26.53	

Table 5. 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)
7/15/2015	17,568	0	17,568	170,100	24.90	
7/16/2015	17,406	0	17,406	170,100	24.67	
7/17/2015	10,334	0	10,334	170,100	14.64	6
7/18/2015	15,169	0	15,169	170,100	21.50	
7/19/2015	18,090	0	18,090	170,100	25.64	
7/20/2015	17,842	0	17,842	170,100	25.28	
7/21/2015	14,655	0	14,655	170,100	20.77	
7/22/2015	14,165	0	14,165	170,100	20.07	
7/23/2015	15,312	0	15,312	170,100	21.70	
7/24/2015	14,925	0	14,925	170,100	21.15	26
7/25/2015	15,163	0	15,163	170,100	21.49	
7/26/2015	15,041	0	15,041	170,100	21.31	
7/27/2015	15,104	0	15,104	170,100	21.40	
7/28/2015	14,692	0	14,692	170,100	20.82	
7/29/2015	14,933	0	14,933	170,100	21.16	5
7/30/2015	13,706	0	13,706	47,570	5.43	
7/31/2015	16,218	0	16,218	47,570	6.43	
8/1/2015	16,271	0	16,271	47,570	6.45	
8/2/2015	16,163	0	16,163	47,570	6.41	
8/3/2015	16,124	0	16,124	47,570	6.39	
8/4/2015	15,128	0	15,128	47,570	6.00	
8/5/2015	17,618	0	17,618	47,570	6.98	
8/6/2015	17,366	0	17,366	37,570	5.44	
8/7/2015	18,983	0	18,983	37,570	5.94	
8/8/2015	20,418	0	20,418	37,570	6.39	
8/9/2015	20,345	0	20,345	37,570	6.37	
8/10/2015	20,161	0	20,161	37,570	6.31	
8/11/2015	20,227	0	20,227	37,570	6.33	15
8/12/2015	18,460	0	18,460	37,570	5.78	
8/13/2015	19,785	0	19,785	37,570	6.19	
8/14/2015	17,634	0	17,634	37,570	5.52	
8/15/2015	9,496	0	9,496	37,570	2.97	
8/16/2015	9,594	0	9,594	37,570	3.00	
8/17/2015	9,525	0	9,525	37,570	2.98	
8/18/2015	10,270	0	10,270	37,570	3.21	246
8/19/2015	8,956	0	8,956	37,570	2.80	

Table 5. 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)
8/20/2015	9,094	0	9,094	37,570	2.85	
8/21/2015	9,062	0	9,062	37,570	2.84	
8/22/2015	8,985	0	8,985	37,570	2.81	
8/23/2015	9,577	0	9,577	37,570	3.00	
8/24/2015	9,740	0	9,740	37,570	3.05	
8/25/2015	9,534	0	9,534	37,570	2.98	
8/26/2015	8,079	0	8,079	37,570	2.53	
8/27/2015	9,572	0	9,572	37,570	3.00	
8/28/2015	6,291	0	6,291	37,570	1.97	9
8/29/2015	6,437	0	6,437	37,570	2.01	
8/30/2015	6,065	0	6,065	37,570	1.90	
8/31/2015	6,156	0	6,156	37,570	1.93	
9/1/2015	6,459	0	6,459	37,570	2.02	12
9/2/2015	10,758	0	10,758	37,570	3.37	
9/3/2015	8,930	0	8,930	37,570	2.80	
9/4/2015	11,272	0	11,272	37,570	3.53	
9/5/2015	18,061	0	18,061	37,570	5.65	
9/6/2015	18,675	0	18,675	37,570	5.85	
9/7/2015	14,904	0	14,904	129,000	16.02	
9/8/2015	14,179	0	14,179	129,000	15.24	
9/9/2015	14,216	0	14,216	129,000	15.28	
9/10/2015	22,237	0	22,237	129,000	23.90	
9/11/2015	21,576	0	21,576	129,000	23.19	
9/12/2015	26,622	0	26,622	129,000	28.61	
9/13/2015	26,221	0	26,221	129,000	28.18	
9/14/2015	26,062	0	26,062	129,000	28.01	
9/15/2015	26,076	0	26,076	129,000	28.02	
9/16/2015	21,647	0	21,647	129,000	23.26	
9/17/2015	20,867	0	20,867	129,000	22.43	
9/18/2015	13,102	0	13,102	129,000	14.08	
9/19/2015	5,169	0	5,169	129,000	5.56	
9/20/2015	5,309	0	5,309	129,000	5.71	
9/21/2015	5,301	0	5,301	129,000	5.70	
9/22/2015	5,271	0	5,271	129,000	5.66	291
9/23/2015	8,666	0	8,666	129,000	9.31	
9/24/2015	11,365	0	11,365	129,000	12.21	

Table 5. 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)
9/25/2015	9,701	0	9,701	129,000	10.43	1
9/26/2015	15,166	0	15,166	129,000	16.30	
9/27/2015	20,318	0	20,318	129,000	21.84	
9/28/2015	21,698	0	21,698	129,000	23.32	
9/29/2015	21,631	0	21,631	129,000	23.25	
9/30/2015	21,889	0	21,889	129,000	23.52	
Third Quarter 2015 Totals	1,397,963	0	1,397,963	--	1,296	780
Cumulative Total	68,797,951	26,902,604	95,700,555	--	13,289	13,086

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 gas, diesel, and oil (C4-C36)

Table 6. 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	--	--	--	--
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	--	--	--	--

Table 6. Extracted Groundwater Analytical Results^a

SFPF 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)	
1/30/2003	--	--	--	--	--	<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	--	--	--	--	
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	--	--	--	--	

Table 6. 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)
1/4/2008	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	--	--	--	--
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	--	--	--	--

Table 6. 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)
1/14/2011	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
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

Table 6. 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)
1/17/2014	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

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 July 27, 2011, sample and samples 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

DIPE = di-isopropyl ether

ETBE = ethyl tertiary butyl ether

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

MTBE = methyl tertiary butyl ether

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 7. 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	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
	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
	10/10/2011	74.44	28.91	---	---	45.53	Blaine Tech
	4/16/2012	77.16	31.15	---	---	46.01	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	43.91	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	KMEP	
4/20/2015	77.16	36.98	32.99	3.99	43.29	Blaine Tech	
GMW-10	04/30/2007	74.67	---	25.90	---	---	Secor
	11/12/2007	74.67	25.02	25.82	0.83	50.33	Secor
	04/14/2008	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

Table 7. 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
	4/11/2011	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
	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	N/A	36.15	29.25	6.90	---	CH2M HILL
	10/7/2013	N/A	31.85	29.32	2.53	---	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
GMW-22	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
	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	77.24	31.15	---	---	46.09	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
	5/6/14	77.24	35.87	32.35	3.52	44.24	Nieto & Sons
	5/12/14	77.24	35.76	32.28	3.48	44.32	Nieto & Sons
	5/20/14	77.24	37.90	32.70	5.20	43.58	Nieto & Sons
	5/27/14	77.24	36.34	32.71	3.63	43.86	Nieto & Sons
	6/4/14	77.24	33.36	---	---	43.88	Nieto & Sons
	6/10/14	77.24	36.74	32.82	3.92	43.69	Nieto & Sons
	7/3/14	77.24	37.66	32.91	4.75	43.45	Nieto & Sons
	7/8/14	77.24	36.70	32.79	3.91	43.73	Blaine Tech
	7/18/14	77.24	36.68	32.77	3.91	43.75	Blaine Tech
	7/24/14	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

Table 7. 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
	9/18/2014	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
GMW-24	11/12/2007	74.04	27.50	27.46	0.04	46.57	Stantec
	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
	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
	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	77.48	30.49	30.31	0.18	47.13	Blaine Tech
	10/15/2012	77.48	31.34	---	---	46.14	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

Table 7. 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	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	KMEP
	4/20/2015	77.48	36.29	33.82	2.47	43.17	Blaine Tech
GMW-25	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	78.14	30.31	---	---	47.83	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	33.99	0.79	43.97	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
GMW-36	8/28/2007	74.53	24.31	---	---	50.22	Stantec
	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

Table 7. 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
	10/16/2008	74.53	26.11	26.09	0.02	48.44	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
	7/21/2009	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
	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
	4/12/2011	74.53	26.98	25.05	1.93	49.09	Blaine Tech
	10/10/2011	74.53	25.96	---	---	48.57	Blaine Tech
	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
	4/16/2012	74.53	27.34	---	---	47.19	Blaine Tech
	6/15/2012	76.66	33.27	---	---	43.39	Blaine Tech
	7/9/2012	76.66	33.71	---	---	42.95	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
	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
	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
GMW-O-11	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

Table 7. 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
	1/15/2009	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
	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
	10/15/2012	74.17	28.12	---	---	46.05	Blaine Tech
	9/24/2013	74.17	31.25	28.15	3.10	45.40	CH2M HILL
	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
	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
GMW-O-12	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
	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
	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	CH2M HILL
	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

Table 7. 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
	8/13/2014	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
	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
	4/22/2015	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
GMW-O-15	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
	7/22/2009	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
	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
	10/4/2010	74.23	25.85	25.80	0.05	48.42	Blaine Tech
	11/23/2010	74.23	53.17	---	---	21.06	Blaine Tech
	12/22/2010	74.23	26.31	---	---	47.92	Blaine Tech
	1/10/2011	74.23	25.97	---	---	48.26	Blaine Tech
	4/12/2011	74.23	22.55	22.53	0.02	51.70	Blaine Tech
	10/10/2011	74.23	23.79	23.22	0.57	50.90	Blaine Tech
	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

Table 7. 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	74.23	27.67	---	---	46.56	Blaine Tech
	2/23/2012	74.23	31.18	---	---	43.05	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
	9/26/2012	74.23	30.64	---	---	43.59	Blaine Tech
	10/15/2012	74.23	31.82	---	---	42.41	Blaine Tech
	12/26/2012	74.23	27.41	---	---	46.82	Blaine Tech
	1/14/2013	74.23	27.62	---	---	46.61	Blaine Tech
	4/26/2013	74.23	27.90	---	---	46.33	Blaine Tech
	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	30.26	no product	0.00	43.97	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
GMW-O-18	04/30/2007	74.36	24.21	---	---	50.15	Secor
	11/12/2007	74.36	22.46	---	---	51.90	Secor
	04/14/2008	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
	10/4/2010	74.36	29.95	---	---	44.41	Blaine Tech
	4/12/2011	74.36	22.88	---	---	51.48	Blaine Tech
	10/10/2011	74.36	23.68	---	---	50.68	Blaine Tech
	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
	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
	9/26/2012	74.36	30.83	---	---	43.53	Blaine Tech
	10/15/2012	74.36	29.73	---	---	44.63	Blaine Tech
	12/26/2012	74.36	28.87	---	---	45.49	Blaine Tech
	1/14/2013	74.36	28.92	---	---	45.44	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

Table 7. 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
	8/29/2014	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
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
	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
	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	CH2M HILL
	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
GMW-O-21	12/28/2007	71.43	27.67	---	---	43.76	Geomatrix
	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
	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
	10/15/2012	71.43	32.50	---	---	38.93	Blaine Tech
	9/25/2013	71.43	29.25	---	---	42.18	CH2M HILL
	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

Table 7. 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
	9/26/2014	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
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
	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
	10/10/2011	73.63	25.25	---	---	48.38	Blaine Tech
	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	CH2M HILL
	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

Table 7. 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
	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	KMEP
	4/22/2015	73.63	33.08	30.36	2.72	42.73	Blaine Tech
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	73.05	26.99	---	---	46.06	Blaine Tech
	10/15/2012	73.05	34.21	---	---	38.84	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	
MW-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
	10/10/2011	75.77	27.60	---	---	48.17	Blaine Tech
	4/16/2012	75.77	28.81	---	---	46.96	Blaine Tech
	10/15/2012	75.77	29.88	---	---	45.89	Blaine Tech
	4/8/2013	75.77	Dry	---	---	---	Blaine Tech
	8/14/2014	75.77	31.50	---	---	44.27	Blaine Tech
	10/1/2014	75.77	28.83	28.53	0.30	47.18	Blaine Tech
	10/6/2014	75.77	28.53	28.49	0.04	47.27	Blaine Tech
	10/27/2014	75.77	Dry	---	---	---	Blaine Tech
	4/20/2015	76.53	Dry	---	---	---	Blaine Tech
GWR-3	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
	10/4/2010	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	77.60	29.56	---	---	48.04	Blaine Tech
	10/15/2012	77.60	31.21	---	---	46.39	Blaine Tech
	4/8/2013	77.60	29.21	29.18	0.03	48.41	Blaine Tech
	10/7/2013	77.60	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	44.19	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	77.6	35.34	33.27	2.07	43.98	Blaine Tech
9/26/2014	77.6	35.25	33.24	2.01	44.02	Blaine Tech	
10/1/2014	77.6	36.44	34.01	2.43	43.18	Blaine Tech	
10/6/2014	77.6	34.71	33.33	1.38	44.04	Blaine Tech	

Table 7. 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
	10/14/2014	77.6	35.15	33.20	1.95	44.07	Blaine Tech
	10/23/2014	77.6	35.36	33.20	2.16	44.03	Blaine Tech
	10/27/2014	77.6	34.68	33.49	1.19	43.91	Blaine Tech
	11/3/2014	77.6	35.43	33.18	2.25	44.04	Blaine Tech
	11/10/2014	77.6	35.02	33.32	1.70	43.99	Blaine Tech
	11/18/2014	77.6	35.05	33.34	1.71	43.97	Blaine Tech
	11/25/2014	77.6	35.04	33.36	1.68	43.95	Blaine Tech
	12/3/2014	77.6	34.95	33.34	1.61	43.99	Blaine Tech
	12/12/2014	77.6	35.11	33.64	1.47	43.71	Blaine Tech
	12/19/2014	77.6	35.55	33.67	1.88	43.61	Blaine Tech
	4/20/2015	77.6	37.25	33.34	3.91	43.60	Blaine Tech
	7/24/2015	77.6	41.30	33.95	7.35	42.40	Northstar
	8/12/2015	77.6	37.03	34.42	2.61	42.74	Northstar
MW-18 (MID)	04/30/2007	75.67	29.77	---	---	45.90	Secor
	11/12/2007	75.67	30.23	---	---	45.44	Secor
	04/14/2008	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
	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	
MW-O-1	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
	8/19/2008	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
	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	
MW-O-2	11/12/2007	71.90	23.10	---	---	48.80	Stantec
	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
	7/21/2009	71.90	23.63	---	---	48.27	Envent
	11/9/2009	71.90	25.39	---	---	46.51	Kinder Morgan

Table 7. 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
	10/4/2010	71.90	26.05	---	---	45.85	Blaine Tech
	4/13/2011	71.90	23.31	---	---	48.59	Blaine Tech
	10/10/2011	71.90	27.53	---	---	44.37	Blaine Tech
	1/9/2012	71.90	28.13	---	---	43.77	Blaine Tech
	7/9/2012	71.90	26.53	---	---	45.37	Blaine Tech
	10/15/2012	71.90	26.89	---	---	45.01	Blaine Tech
	1/14/2013	71.90	26.93	---	---	44.97	Blaine Tech
	6/6/2013	71.90	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	---	---	42.09	Blaine Tech
	4/20/2015	71.9	30.94	29.34	1.60	42.24	Blaine Tech
	5/21/2015	71.9	32.50	27.31	5.19	43.55	Northstar
	5/29/2015	71.9	31.52	30.20	1.32	41.44	Northstar
	6/5/2015	71.9	31.45	30.57	0.88	41.15	Northstar
	6/12/2015	71.9	31.05	30.60	0.45	41.21	Northstar
	6/19/2015	71.9	31.10	30.90	0.20	40.96	Northstar
	6/26/2015	71.9	31.66	31.37	0.29	40.47	Northstar
MW-SF-1	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
	7/22/2009	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
	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

Table 7. 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
	9/26/2014	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
	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
MW-SF-2	11/12/2007	78.53	29.18	28.71	0.47	49.73	Stantec
	8/12/2008	78.53	31.11	---	---	47.42	Envent
	10/17/2008	78.53	31.55	31.50	0.05	47.02	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
	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
	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

Table 7. 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	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
MW-SF-3	11/12/2007	78.12	29.34	28.28	1.06	49.63	Stantec
	8/12/2008	78.12	30.30	29.05	1.25	48.82	Envent
	10/17/2008	78.12	29.45	---	---	48.67	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
	4/21/2009	78.12	29.51	29.50	0.01	48.62	Envent
	7/21/2009	78.12	30.07	---	---	48.05	Envent
	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
	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	CH2M HILL
	11/14/2013	78.12	33.26	---	---	44.86	CH2M HILL
	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	
MW-SF-4	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
	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

Table 7. 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
	3/15/2010	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
	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	---	---	---	Blaine Tech
	10/7/2013	79.38	Dry	---	---	---	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
MW-SF-5	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
	5/24/2010	79.74	31.55	---	---	48.19	Blaine Tech
	5/28/2010	79.74	31.44	---	---	48.30	Blaine Tech

Table 7. 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
	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
	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	
MW-SF-6	11/12/2007	76.80	27.14	---	---	49.66	Stantec
	8/12/2008	76.80	29.82	---	---	46.98	Envent
	10/17/2008	76.80	29.75	---	---	47.05	Envent
	12/18/2008	76.80	30.73	---	---	46.07	Envent
	1/15/2009	76.80	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
	11/6/2009	76.80	29.10	---	---	47.70	Kinder Morgan
	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
	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
	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
	11/14/2013	76.8	31.90	---	---	44.90	Blaine Tech
	4/18/2014	76.8	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	
MW-SF-9	8/14/2007	74.10	28.73	28.61	0.12	45.47	Geomatrix
	8/28/2007	74.10	20.55	---	---	53.55	Stantec
	8/21/2007	74.10	26.55	---	---	47.55	Geomatrix
	9/11/2007	74.10	19.40	---	---	54.70	Geomatrix
	10/5/2007	74.10	26.84	---	---	47.26	Geomatrix
	11/2/2007	74.10	22.76	---	---	51.34	Geomatrix
	11/12/2007	74.10	22.96	---	---	51.14	Stantec

Table 7. 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
	12/21/2007	74.10	24.05	---	---	50.05	Geomatrix
	4/14/2008	74.10	24.23	---	---	49.87	Stantec
	10/13/2008	74.10	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
	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
	4/8/2013	74.10	28.53	---	---	45.57	Blaine Tech
	10/7/2013	74.1	28.95	---	---	45.15	Blaine Tech
	4/25/2014	74.1	34.75	27.95	6.80	44.89	Blaine Tech
	5/5/2014	74.1	37.81	31.76	6.05	41.22	Nieto & Sons
	5/12/2014	74.1	32.32	29.11	3.21	44.40	Nieto & Sons
	5/20/2014	74.1	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	74.1	31.85	30.60	1.25	43.27	Northstar
	6/12/2015	74.1	31.28	30.75	0.53	43.25	Northstar
	6/19/2015	74.1	31.30	31.00	0.30	43.04	Northstar
	6/26/2015	74.1	31.20	29.50	1.70	44.29	Northstar
	8/11/2015	74.1	36.90	29.90	7.00	42.91	Northstar
	8/18/2015	74.1	35.19	30.25	4.94	42.94	Northstar
	8/28/2015	74.1	31.60	30.75	0.85	43.19	KMEP
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

Table 7. 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	76.53	27.60	---	---	48.93	Blaine Tech
	4/16/2012	76.53	28.81	---	---	47.72	Blaine Tech
	10/15/2012	76.53	29.27	---	---	47.26	Blaine Tech
	4/8/2013	76.53	Dry	---	---	---	Blaine Tech
	10/7/2013	76.53	Dry	---	---	---	Blaine Tech
	4/14/2014	76.53	Dry	---	---	---	Blaine Tech
	10/27/2014	76.53	Dry	---	---	---	Blaine Tech
	4/20/2015	76.53	Dry	---	---	---	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
	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
	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	KMEP	
4/20/2015	78.56	38.89	34.86	4.03	42.89	KMEP	
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

Table 7. 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
	11/2/2007	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
	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
	10/15/2012	78.07	32.12	---	---	45.95	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	---	33.58	---	---	Nieto & Sons
	7/24/2014	78.07	---	33.35	3.97	---	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	KMEP
	4/20/2015	78.07	36.42	34.05	2.37	43.55	Blaine Tech
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
	9/3/2010	73.40	27.40	25.71	1.69	47.27	Kinder Morgan
	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
	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
	10/4/2010	73.40	26.95	25.92	1.03	47.22	Blaine Tech

Table 7. 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
	4/12/2011	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
	10/15/2012	73.40	27.01	---	---	46.39	Blaine Tech
	4/8/2013	73.40	27.90	---	---	45.50	Blaine Tech
	11/14/2013	73.4	29.95	28.25	1.70	44.73	Blaine Tech
	4/14/2014	73.4	31.36	28.47	2.89	44.21	Blaine Tech
	5/5/2014	73.4	31.62	28.49	3.13	44.13	Nieto & Sons
	5/12/2014	73.4	30.02	28.88	1.14	44.24	Nieto & Sons
	5/20/2014	73.4	31.10	29.77	1.33	43.30	Nieto & Sons
	5/27/2014	73.4	30.17	29.48	0.69	43.75	Nieto & Sons
	6/4/2014	73.4	30.22	---	---	43.18	Nieto & Sons
	6/10/2014	73.4	30.20	29.76	0.44	43.53	Nieto & Sons
	7/3/2014	73.4	30.49	29.88	0.61	43.37	Nieto & Sons
	7/24/2014	73.4	30.50	29.54	0.96	43.62	Blaine Tech
	8/1/2014	73.4	29.82	29.25	0.57	44.01	Blaine Tech
	8/8/2014	73.4	34.07	33.71	0.36	39.60	Blaine Tech
	8/14/2014	73.4	29.96	29.13	0.83	44.06	Blaine Tech
	8/19/2014	73.4	29.91	29.15	0.76	44.06	Blaine Tech
	8/29/2014	73.4	30.15	29.02	1.13	44.10	Blaine Tech
	9/5/2014	73.4	30.19	29.08	1.11	44.04	Blaine Tech
	9/11/2014	73.4	30.66	28.91	1.75	44.05	Blaine Tech
	9/18/2014	73.4	30.41	29.15	1.26	43.94	Blaine Tech
	9/26/2014	73.4	30.18	29.14	1.04	44.00	Blaine Tech
	10/1/2014	73.4	30.38	29.05	1.33	44.02	Blaine Tech
	10/6/2014	73.4	30.10	29.12	0.98	44.04	Blaine Tech
	10/13/2014	73.4	30.28	29.07	1.21	44.03	Blaine Tech
	10/23/2014	73.4	30.72	28.95	1.77	44.01	Blaine Tech
	10/27/2014	73.4	30.21	29.06	1.15	44.05	Blaine Tech
	11/3/2014	73.4	30.62	28.93	1.69	44.05	Blaine Tech
	11/18/2014	73.4	30.54	29.11	1.43	43.93	Blaine Tech
	11/25/2014	73.4	29.48	29.14	0.34	44.18	Blaine Tech
	12/3/2014	73.4	31.02	28.93	2.09	43.95	Blaine Tech
	12/12/2014	73.4	31.05	29.40	1.65	43.59	Blaine Tech
	12/19/2014	73.4	31.11	29.40	1.71	43.57	Blaine Tech
	4/20/2015	73.4	32.44	29.04	3.40	43.51	Blaine Tech
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
	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
	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
	10/15/2012	78.16	30.02	---	---	48.14	Blaine Tech
	4/8/2013	78.16	32.75	---	---	45.41	Blaine Tech
	9/26/2013	78.16	34.50	34.25	0.25	43.86	CH2M HILL
	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

Table 7. 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
	10/14/2014	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
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
	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
	10/15/2012	78.27	33.15	---	---	45.12	Blaine Tech
	4/8/2013	78.27	33.90	---	---	44.37	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	34.25	---	---	44.02	Blaine Tech
4/20/2015	78.27	36.63	34.12	2.51	43.65	Blaine Tech	
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
	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
	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
	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

Table 7. 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
	8/8/2014	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

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

feet btoc = feet below top of casing

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

Figures

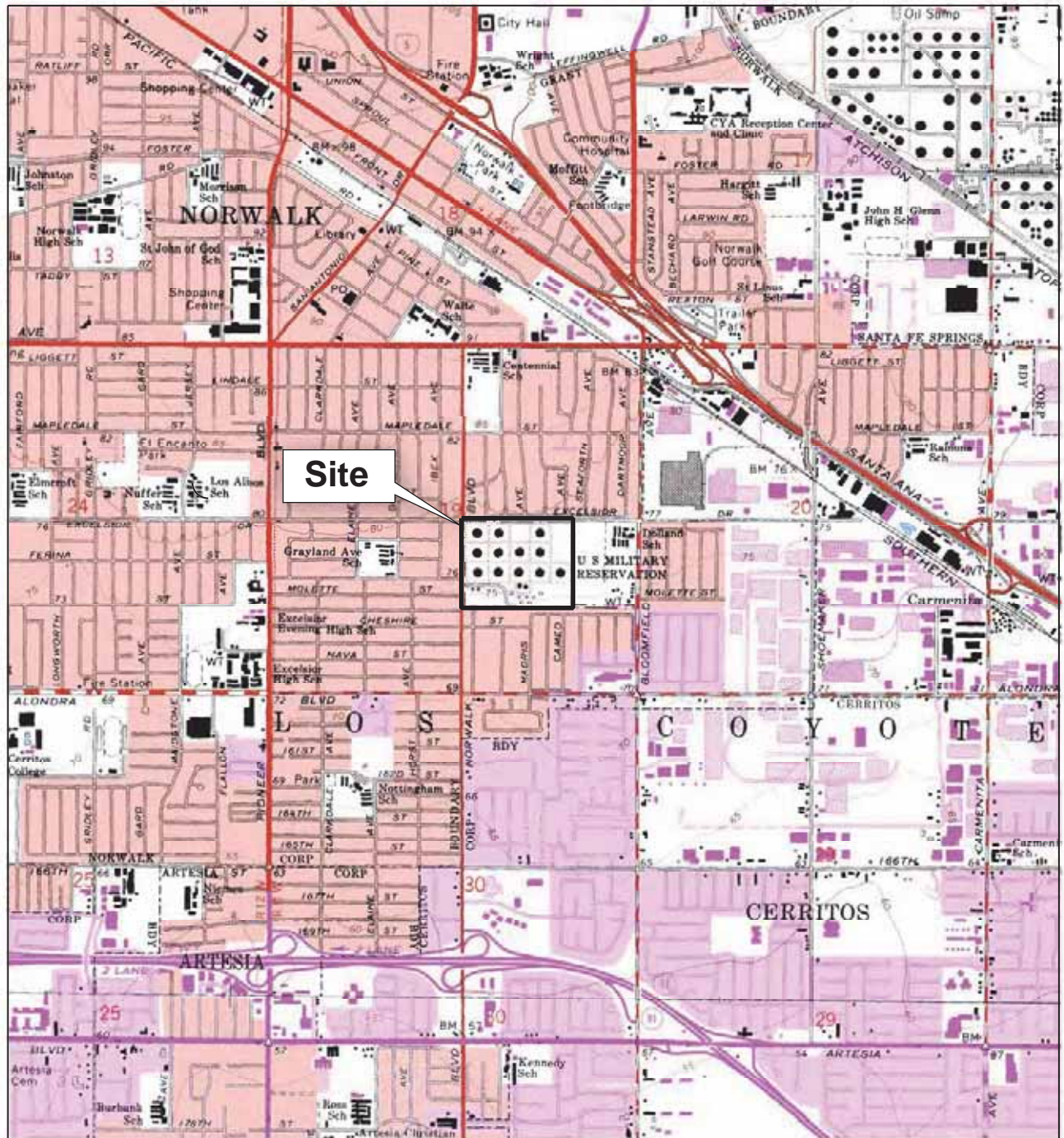
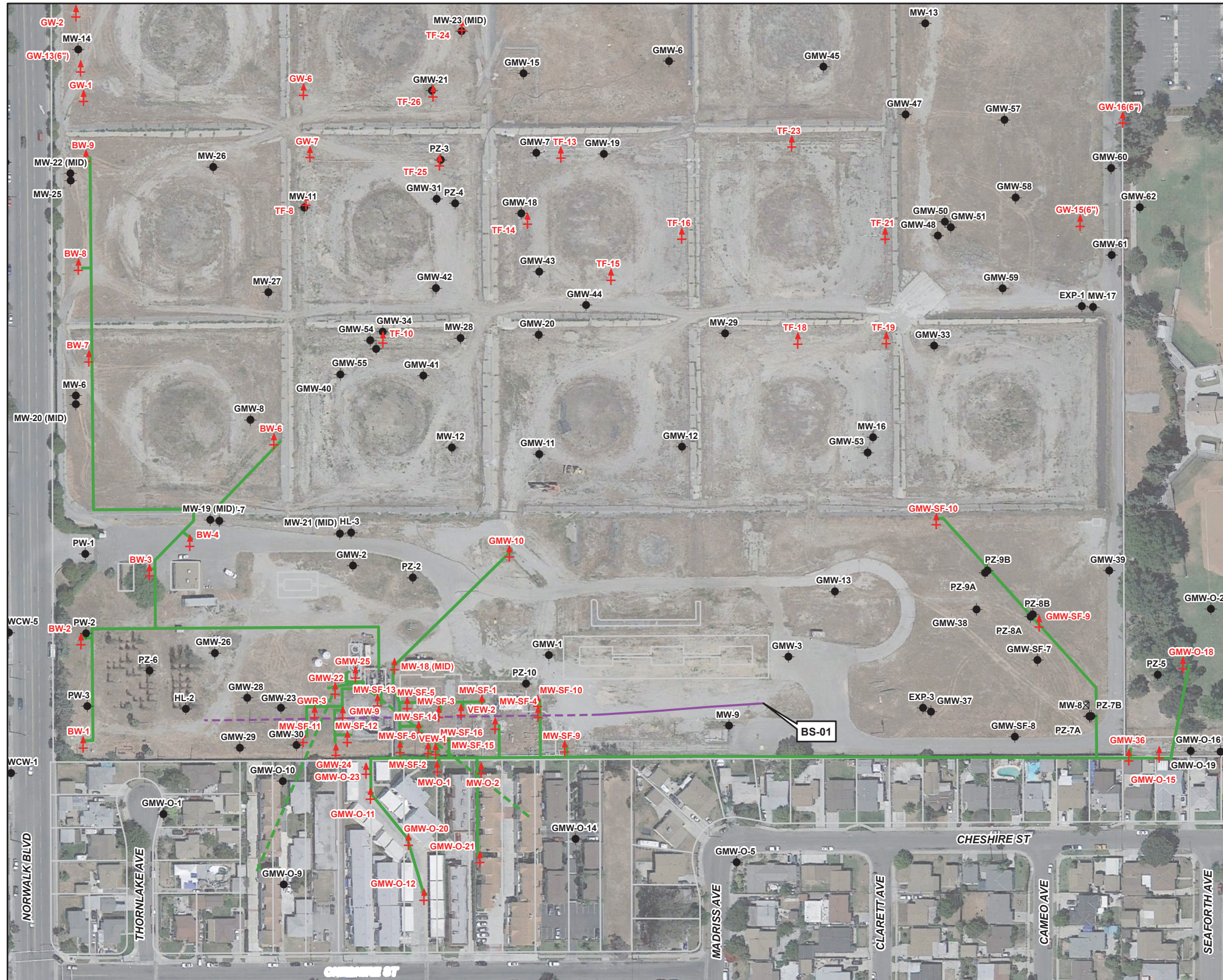


Figure 1
 Site Location Map
 SFP Norwalk Pump Station
 Norwalk, California

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.

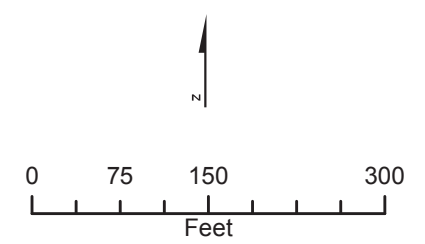


Figure 2
Remediation System Layout
SFPP Norwalk Pump Station
Norwalk, California



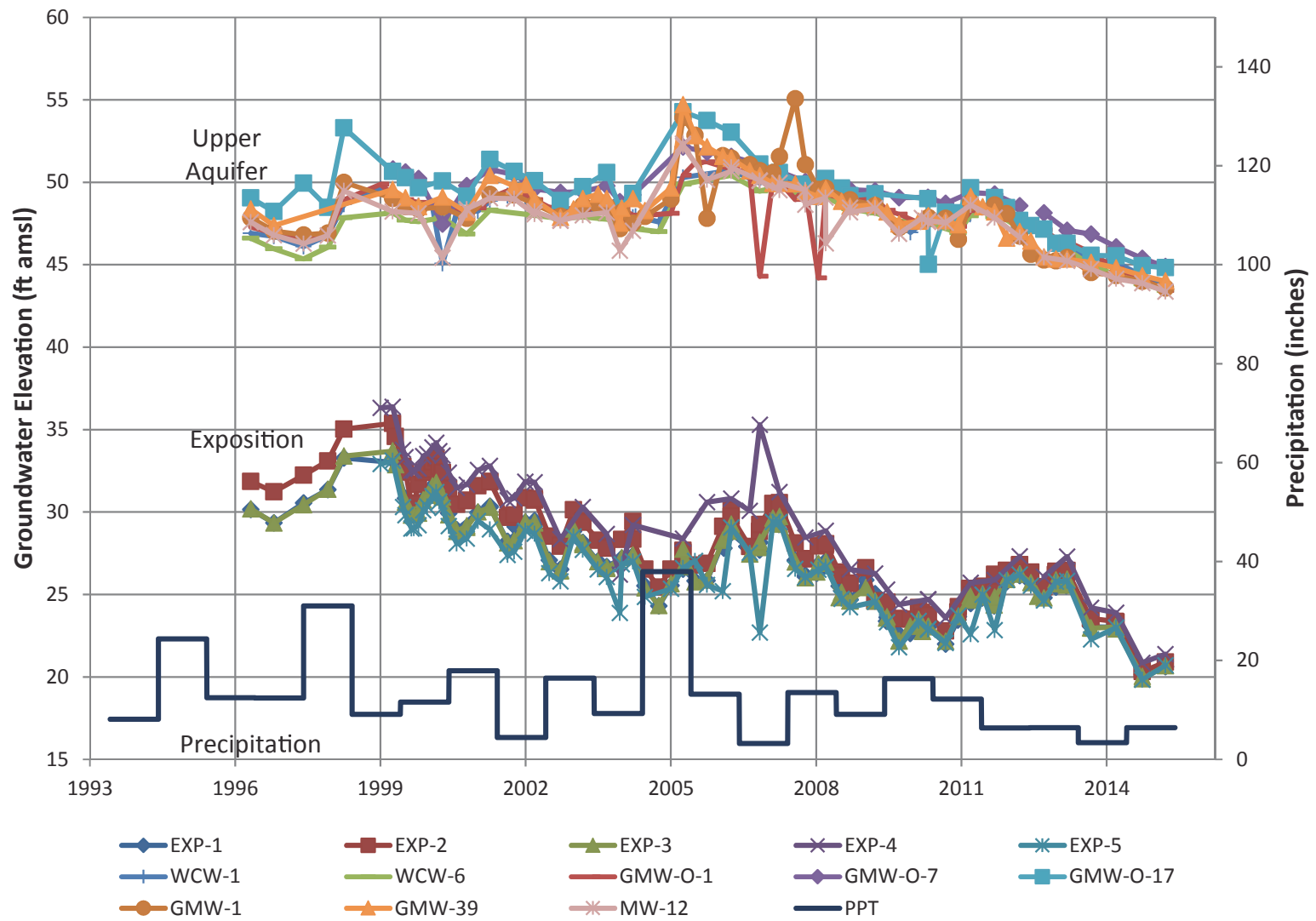


Figure 3
Hydrographs for Select Groundwater Monitoring Wells
SFPP Norwalk Pump Station
Norwalk, California



Appendix A

Laboratory Analytical Reports

July 22, 2015

CH2M HILL
ATTN: Dan Jablonski
6 Hutton Centre Dr., Suite 700
Santa Ana, CA 92707



ADE-1461
EPA Methods TO-3, TO14A, TO15 SIM & Scan, ASTM D1946



LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175

TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

UT Cert CA0133332014-1
EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: SFPP – Norwalk Site
Lab Number: G071502-01/03

Enclosed are results for sample(s) received 7/15/15 by Air Technology Laboratories. Samples were received intact. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

Preliminary results were e-mailed to Daniel Jablonski, Vidal Cortes and Steve Defibaugh on 7/22/15.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

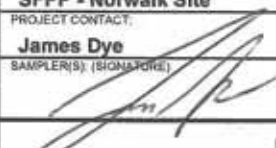
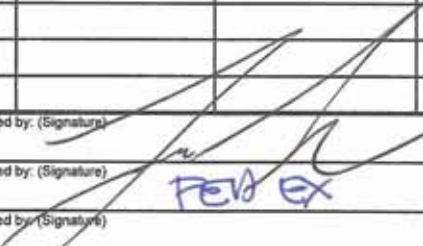
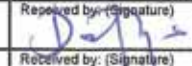
Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

Air Technology Laboratories, Inc.
 18501 Gale Ave # 130
 City of Industry, CA 91748
 Tel: (626) 964-4032
 Joann De La Ossa (JDeLaOssa@airtechlabs.com)

60715 02-01/03
CHAIN OF CUSTODY RECORD

DATE: 7/14/15
 PAGE: 1 OF 1

LABORATORY CLIENT: CH2M HILL: Attn - Dan Jablonski									CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site				P.O. NO.:							
ADDRESS: 6 Hutton Centre Dr, Suite 700									PROJECT CONTACT: James Dye				QUOTE NO.:							
CITY: Santa Ana, CA 92707									SAMPLER(S) (SIGNATURE): 				LAB USE ONLY <input type="checkbox"/> <input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>							
TEL: 714-429-2020			FAX:			E-MAIL: Daniel.Jablonski@CH2M.com														
TURNAROUND TIME: <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS									REQUESTED ANALYSIS											
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL 1/1																				
SPECIAL INSTRUCTIONS: Report: Jablonski, Daniel/LAC - Daniel.Jablonski@CH2M.com, Cortes, Vidal/SCO - Vidal.Cortes@CH2M.com CC: KMEP Steve Defibaugh - Steve_Defibaugh@kindermorgan.com "J" flags required/Use lowest possible detection limit - all methods.																				
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING				MAT-RIX	NO. OF CONT.	TO-15 (VOCs Target Analytes)	TO-3 (TPH-g)	TGM/MOC as Hexane (EPA 25.1)	ASTM-D 1946 (O2/Argon, CO2, CH4, N2)								Comments
			DATE	TIME	INITIAL PRESSURE ("Hg)	FINAL PRESSURE ("Hg)														
01	VINF-07-14	Influent Vapor (from header)	7/14/15	1250	-30	-5	Air	1	X	X	X									Batch Certified 1-L SUMMA 232/
02	VPOST-07-14	Post-Dilution	7/14/15	1240	-30	-5	Air	1	X	X	X									Individually Certified 1-L SUMMA 1116
03	VEFF-07-14	Outlet (stack)	7/14/15	1230	-30	-5	Air	1	X	X										Individually Certified 1-L SUMMA 0
																				TAL includes historical VOCs and remaining ATLI List per subcontract.
Relinquished by: (Signature) 									Received by: (Signature) FED EX				Date: 7/14/15		Time: 1530					
Relinquished by: (Signature) FED EX									Received by: (Signature) 				Date: 7/15/15		Time: 1200					
Relinquished by: (Signature)									Received by: (Signature)				Date:		Time:					

Client: CH2M Hill
 Attn: Daniel Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 07/15/15
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	G071502-01			G071502-02			G071502-03		
Client Sample I.D.:	VINP-07-14			VPOST-07-14			VEFF-07-14		
Date/Time Sampled:	7/14/15 12:50			7/14/15 12:40			7/14/15 12:30		
Date/Time Analyzed:	7/16/15 13:32			7/16/15 14:10			7/16/15 12:18		
QC Batch No.:	150716MS2A1			150716MS2A1			150716MS2A1		
Analyst Initials:	DT			DT			DT		
Dilution Factor:	200			100			2.0		
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv
Dichlorodifluoromethane (12)	ND	0.20	0.027	ND	0.10	0.014	0.00028 J	0.0020	0.00027
Chloromethane	ND	0.40	0.037	0.20	0.20	0.018	0.0091	0.0040	0.00037
1,2-CI-1,1,2,2-F ethane (114)	ND	0.20	0.0089	ND	0.10	0.0044	ND	0.0020	0.00089
Vinyl Chloride	ND	0.20	0.026	ND	0.10	0.013	ND	0.0020	0.00026
Bromomethane	ND	0.20	0.064	ND	0.10	0.032	ND	0.0020	0.00064
Chloroethane	ND	0.20	0.17	ND	0.10	0.085	ND	0.0020	0.0017
Trichlorofluoromethane (11)	ND	0.20	0.025	ND	0.10	0.013	ND	0.0020	0.00025
1,1-Dichloroethene	ND	0.20	0.035	ND	0.10	0.018	ND	0.0020	0.00035
Carbon Disulfide	ND	1.0	0.036	ND	0.51	0.018	0.0026 J	0.010	0.00036
1,1,2-CI 1,2,2-F ethane (113)	ND	0.20	0.035	ND	0.10	0.017	ND	0.0020	0.00035
Acetone	ND	1.0	0.11	ND	0.51	0.054	0.027	0.010	0.0011
Methylene Chloride	ND	0.20	0.037	ND	0.10	0.018	ND	0.0020	0.00037
t-1,2-Dichloroethene	ND	0.20	0.045	ND	0.10	0.022	ND	0.0020	0.00045
1,1-Dichloroethane	ND	0.20	0.031	ND	0.10	0.015	ND	0.0020	0.00031
c-1,2-Dichloroethene	ND	0.20	0.038	ND	0.10	0.019	ND	0.0020	0.00038
2-Butanone	0.16 J	0.20	0.050	ND	0.10	0.025	0.036	0.0020	0.00050
t-Butyl Methyl Ether (MTBE)	ND	0.20	0.025	ND	0.10	0.013	0.075	0.0020	0.00025
Chloroform	ND	0.20	0.026	ND	0.10	0.013	ND	0.0020	0.00026
1,1,1-Trichloroethane	ND	0.20	0.026	ND	0.10	0.013	ND	0.0020	0.00026
Carbon Tetrachloride	ND	0.20	0.020	ND	0.10	0.0099	ND	0.0020	0.00020
Benzene	7.0	0.20	0.0093	4.2	0.10	0.0046	0.031	0.0020	0.00093
1,2-Dichloroethane	ND	0.20	0.022	ND	0.10	0.011	ND	0.0020	0.00022
Trichloroethene	ND	0.20	0.021	0.049 J	0.10	0.011	ND	0.0020	0.00021
1,2-Dichloropropane	ND	0.20	0.016	ND	0.10	0.0081	ND	0.0020	0.00016
Bromodichloromethane	ND	0.20	0.014	ND	0.10	0.0068	ND	0.0020	0.00014
c-1,3-Dichloropropene	ND	0.20	0.025	ND	0.10	0.012	ND	0.0020	0.00025
4-Methyl-2-Pentanone	ND	0.20	0.027	ND	0.10	0.013	ND	0.0020	0.00027
Toluene	7.9	0.20	0.015	4.7	0.10	0.0075	0.045	0.0020	0.00015
t-1,3-Dichloropropene	ND	0.20	0.022	ND	0.10	0.011	ND	0.0020	0.00022
1,1,2-Trichloroethane	ND	0.20	0.024	ND	0.10	0.012	ND	0.0020	0.00024
1,3-Dichloropropane	ND	0.20	0.010	ND	0.10	0.0050	ND	0.0020	0.00010
Tetrachloroethene	ND	0.20	0.022	ND	0.10	0.011	ND	0.0020	0.00022
2-Hexanone	ND	0.20	0.064	ND	0.10	0.032	ND	0.0020	0.00064
Dibromochloromethane	ND	0.20	0.013	ND	0.10	0.0067	ND	0.0020	0.00013
1,2-Dibromoethane	ND	0.20	0.019	ND	0.10	0.0097	ND	0.0020	0.00019
Chlorobenzene	ND	0.20	0.019	ND	0.10	0.0097	ND	0.0020	0.00019
Ethylbenzene	0.95	0.20	0.018	0.59	0.10	0.0091	0.0070	0.0020	0.00018
p,&m-Xylene	4.6	0.20	0.036	2.8	0.10	0.018	0.036	0.0020	0.00036
o-Xylene	1.5	0.20	0.031	0.94	0.10	0.015	0.016	0.0020	0.00031




Client: CH2M Hill
 Attn: Daniel Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 07/15/15
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	G071502-01			G071502-02			G071502-03		
Client Sample I.D.:	VINP-07-14			VPOST-07-14			VEFF-07-14		
Date/Time Sampled:	7/14/15 12:50			7/14/15 12:40			7/14/15 12:30		
Date/Time Analyzed:	7/16/15 13:32			7/16/15 14:10			7/16/15 12:18		
QC Batch No.:	150716MS2A1			150716MS2A1			150716MS2A1		
Analyst Initials:	DT			DT			DT		
Dilution Factor:	200			100			2.0		
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv
Styrene	0.061 J	0.20	0.026	0.038 J	0.10	0.013	0.00078 J	0.0020	0.00026
Bromoform	ND	0.20	0.022	ND	0.10	0.011	ND	0.0020	0.00022
Isopropyl benzene	0.045 J	0.20	0.022	0.053 J	0.10	0.011	0.00046 J	0.0020	0.00022
1,1,2,2-Tetrachloroethane	ND	0.40	0.014	ND	0.20	0.0070	ND	0.0040	0.00014
Benzyl Chloride	ND	0.20	0.020	ND	0.10	0.0098	ND	0.0020	0.00020
1,2,3-Trichloropropane	ND	0.20	0.024	ND	0.10	0.012	ND	0.0020	0.00024
n-Propyl Benzene	0.087 J	0.20	0.016	0.056 J	0.10	0.0079	0.0014 J	0.0020	0.00016
4-Ethyl Toluene	0.65	0.20	0.017	0.42	0.10	0.0087	0.011	0.0020	0.00017
1,3,5-Trimethylbenzene	0.28 J	0.40	0.021	0.17 J	0.20	0.010	0.0053	0.0040	0.00021
4-Chlorotoluene	ND	0.20	0.021	ND	0.10	0.011	ND	0.0020	0.00021
tert-Butylbenzene	0.054 J	0.20	0.016	0.035 J	0.10	0.0080	0.0017 J	0.0020	0.00016
1,2,4-Trimethylbenzene	0.43	0.40	0.028	0.28	0.20	0.014	0.014	0.0040	0.00028
sec-Butylbenzene	ND	0.20	0.022	ND	0.10	0.011	0.00026 J	0.0020	0.00022
p-Isopropyltoluene	ND	0.20	0.020	0.013 J	0.10	0.010	0.00043 J	0.0020	0.00020
1,3-Dichlorobenzene	ND	0.20	0.020	ND	0.10	0.0099	ND	0.0020	0.00020
1,4-Dichlorobenzene	ND	0.20	0.016	ND	0.10	0.0082	ND	0.0020	0.00016
n-Butylbenzene	ND	0.20	0.022	ND	0.10	0.011	ND	0.0020	0.00022
1,2-Dichlorobenzene	ND	0.20	0.023	ND	0.10	0.012	ND	0.0020	0.00023
1,2,4-Trichlorobenzene	ND	0.40	0.059	ND	0.20	0.029	ND	0.0040	0.00059
Hexachlorobutadiene	ND	0.20	0.028	ND	0.10	0.014	ND	0.0020	0.00028
t-Butanol	ND	1.0	0.062	ND	0.51	0.031	ND	0.010	0.00062
n-Hexane	25	1.0	0.041	15	0.51	0.020	0.19	0.010	0.00041
Isopropyl ether	ND	1.0	0.031	ND	0.51	0.015	ND	0.010	0.00031
t-Butyl ethyl ether	ND	1.0	0.042	ND	0.51	0.021	ND	0.010	0.00042
2,2-Dichloropropane	ND	1.0	0.035	ND	0.51	0.017	ND	0.010	0.00035
t-Amyl methyl ether	ND	1.0	0.020	ND	0.51	0.010	ND	0.010	0.00020
1,4-Dioxane	ND	1.0	0.030	ND	0.51	0.015	ND	0.010	0.00030
Naphthalene	ND	1.0	0.048	ND	0.51	0.024	0.0030 J	0.010	0.00048
1,2,3-Trichlorobenzene (TIC)	ND	--		ND	--		ND	--	

MDL = Method Detection Limit
 ND= Not Detected (below MDL)
 RL = Reporting Limit
 J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date: 

The cover letter is an integral part of this analytical report



Client: CH2M Hill
 Attn: Daniel Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 07/15/15
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	METHOD BLANK														
Client Sample I.D.:	-														
Date/Time Sampled:	-														
Date/Time Analyzed:	7/16/15 11:19														
QC Batch No.:	150716MS2A1														
Analyst Initials:	DT														
Dilution Factor:	0.20														
ANALYTE	Result ppmv	RL ppmv	MDL ppmv												
Dichlorodifluoromethane (12)	ND	0.00020	0.000027												
Chloromethane	ND	0.00040	0.000036												
1,2-CI-1,1,2,2-F ethane (114)	ND	0.00020	0.0000088												
Vinyl Chloride	ND	0.00020	0.000026												
Bromomethane	ND	0.00020	0.000063												
Chloroethane	ND	0.00020	0.00017												
Trichlorofluoromethane (11)	ND	0.00020	0.000025												
1,1-Dichloroethene	ND	0.00020	0.000035												
Carbon Disulfide	0.00076 J	0.0010	0.000035												
1,1,2-CI 1,2,2-F ethane (113)	ND	0.00020	0.000034												
Acetone	ND	0.0010	0.00011												
Methylene Chloride	ND	0.00020	0.000036												
t-1,2-Dichloroethene	ND	0.00020	0.000044												
1,1-Dichloroethane	ND	0.00020	0.000030												
c-1,2-Dichloroethene	ND	0.00020	0.000037												
2-Butanone	ND	0.00020	0.000050												
t-Butyl Methyl Ether (MTBE)	ND	0.00020	0.000025												
Chloroform	ND	0.00020	0.000026												
1,1,1-Trichloroethane	ND	0.00020	0.000026												
Carbon Tetrachloride	ND	0.00020	0.000020												
Benzene	0.000031 J	0.00020	0.0000092												
1,2-Dichloroethane	ND	0.00020	0.000022												
Trichloroethene	ND	0.00020	0.000021												
1,2-Dichloropropane	ND	0.00020	0.000016												
Bromodichloromethane	ND	0.00020	0.000014												
c-1,3-Dichloropropene	ND	0.00020	0.000025												
4-Methyl-2-Pentanone	ND	0.00020	0.000027												
Toluene	ND	0.00020	0.000015												
t-1,3-Dichloropropene	ND	0.00020	0.000022												
1,1,2-Trichloroethane	ND	0.00020	0.000024												
1,3-Dichloropropane	ND	0.00020	0.0000099												
Tetrachloroethene	ND	0.00020	0.000021												
2-Hexanone	ND	0.00020	0.000064												
Dibromochloromethane	ND	0.00020	0.000013												
1,2-Dibromoethane	ND	0.00020	0.000019												
Chlorobenzene	ND	0.00020	0.000019												
Ethylbenzene	ND	0.00020	0.000018												
p,&m-Xylene	ND	0.00020	0.000035												
o-Xylene	ND	0.00020	0.000030												



Client: CH2M Hill
 Attn: Daniel Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 07/15/15
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	METHOD BLANK																	
Client Sample I.D.:	-																	
Date/Time Sampled:	-																	
Date/Time Analyzed:	7/16/15 11:19																	
QC Batch No.:	150716MS2A1																	
Analyst Initials:	DT																	
Dilution Factor:	0.20																	
ANALYTE	Result ppmv	RL ppmv	MDL ppmv															
Styrene	ND	0.00020	0.000026															
Bromoform	ND	0.00020	0.000022															
Isopropyl benzene	0.000094 J	0.00020	0.000021															
1,1,2,2-Tetrachloroethane	ND	0.00040	0.000014															
Benzyl Chloride	ND	0.00020	0.000019															
1,2,3-Trichloropropane	ND	0.00020	0.000024															
n-Propyl Benzene	ND	0.00020	0.000016															
4-Ethyl Toluene	ND	0.00020	0.000017															
1,3,5-Trimethylbenzene	ND	0.00040	0.000020															
4-Chlorotoluene	ND	0.00020	0.000021															
tert-Butylbenzene	ND	0.00020	0.000016															
1,2,4-Trimethylbenzene	ND	0.00040	0.000027															
sec-Butylbenzene	ND	0.00020	0.000022															
p-Isopropyltoluene	0.000035 J	0.00020	0.000020															
1,3-Dichlorobenzene	ND	0.00020	0.000020															
1,4-Dichlorobenzene	ND	0.00020	0.000016															
n-Butylbenzene	ND	0.00020	0.000021															
1,2-Dichlorobenzene	ND	0.00020	0.000023															
1,2,4-Trichlorobenzene	ND	0.00040	0.000058															
Hexachlorobutadiene	ND	0.00020	0.000028															
t-Butanol	ND	0.0010	0.000062															
n-Hexane	ND	0.0010	0.000041															
Isopropyl ether	ND	0.0010	0.000031															
t-Butyl ethyl ether	ND	0.0010	0.000042															
2,2-Dichloropropane	ND	0.0010	0.000035															
t-Amyl methyl ether	ND	0.0010	0.000020															
1,4-Dioxane	ND	0.0010	0.000030															
Naphthalene	ND	0.0010	0.000048															
1,2,3-Trichlorobenzene (TIC)	ND	--																

MDL = Method Detection Limit
 ND= Not Detected (below MDL)
 RL = Reporting Limit
 J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: Mark Johnson
 Operations Manager

Date: 7/22/15


The cover letter is an integral part of this analytical report

QC Batch #: 150716MS2A1

Matrix: Air

EPA Method TO-14/TO-15												
Lab No:	Method Blank		LCS		LCSD							
Date/Time Analyzed:	7/16/15 11:19		7/16/15 9:14	7/16/15 9:52								
Data File ID:	16JUL015.D		16JUL012.D	16JUL013.D								
Analyst Initials:	DT		DT	DT								
Dilution Factor:	0.2		1.0	1.0								
ANALYTE		Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Limits			Pass/Fail
								Low %Rec	High %Rec	Max. RPD		
1,1-Dichloroethene	0.0	10.0	9.7	97	9.7	97	0.3	70	130	30	Pass	
Methylene Chloride	0.0	10.0	10.0	100	10.0	100	0.6	70	130	30	Pass	
Trichloroethene	0.0	10.0	10.3	103	10.3	103	0.3	70	130	30	Pass	
Toluene	0.0	10.0	9.5	95	9.6	96	0.9	70	130	30	Pass	
1,1,2,2-Tetrachloroethane	0.0	10.0	9.1	91	8.9	89	2.0	70	130	30	Pass	

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson 
 Mark Johnson
 Operations Manager

Date: 7/22/15

The cover letter is an integral part of this analytical report.



Client: CH2M Hill
Attn: Daniel Jablonski

Client's Project: SFPP - Norwalk Site; NA
Date Received: 7/15/2015
Matrix: Air

TGNMOC by SCAQMD 25.1

Lab No.:	G071502-01			G071502-02			G071502-03			
Client Sample I.D.:	VINP-07-14			VPOST-07-14			VEFF-07-14			
Date/ Time Sampled:	7/14/2015 12:50			7/14/2015 12:40			7/14/2015 12:30			
Date/ Time Analyzed:	7/21/2015 12:46			7/21/2015 11:45			7/21/2015 09:52			
Analyst Initials:	AS			AS			AS			
Data Files:	21jul017/018			21jul013/014			21jul007/008			
QC Batch:	150721GC8A1			150721GC8A1			150721GC8A1			
Dilution Factor:	2.0			2.0			2.0			
ANALYTE	Units	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL
TGNMOC as Hexane	ppmv C	650	3.4	1.0	380	3.4	1.0	7.5	3.4	1.0
Methane	ppmv	95	20	2.3	60	20	2.3	11 J	20	2.3

ND = Not detected above method detection limit (MDL)
PQL = Practical Quantitation Limit.
TGNMOC = Total Gaseous Non-Methane Organic Carbon.
J = Trace amount. Analyte concentration between MDL and RL.
RL = Reporting Limit.

Reviewed/Approved By: _____


Mark J. Johnson
Operations Manager

Date: _____

7/21/15

The cover letter is an integral part of this analytical report.



QC Batch No.: 150721GC8A1
 Matrix: Air
 Units: ppmv

QC for TGNMOC by SCAQMD 25.1

Lab No.:	Method Blank			LCS		LCSD			
Date Analyzed:	7/21/2015 9:22			7/21/2015 8:37		7/21/2015 8:52			
Analyst Initials:	AS			AS		AS			
Datafile:	21jul005			21jul002		21jul003			
Dilution Factor:	1.0			1.0		1.0			
ANALYTE	Results	RL	MDL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
TGNMOC as Hexane	ND	1.7	0.5	107	70-130%	107	70-130%	0.3	<30
Methane	1.9 J	10	1.1	118	70-130%	117	70-130%	0.6	<30

ND = Not Detected (Below MDL)

RL = Reporting Limit

MDL = Method Detection Limit

J = Trace amount below the RL and equal to or above the MDL

Reviewed/Approved By: Mark J. Johnson 1 Date: 7/22/15
 Mark J. Johnson
 Operations Manager

The cover letter is an integral part of this analytical report.



Client: CH2M Hill
 Attn: Daniel Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 07/15/15
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	G071502-01			G071502-02				
Client Sample I.D.:	VINP-07-14			VPOST-07-14				
Date/Time Sampled:	7/14/15 12:50			7/14/15 12:40				
Date/Time Analyzed:	7/21/15 12:46			7/21/15 11:45				
QC Batch No.:	150721GC8A1			150721GC8A1				
Analyst Initials:	AS			AS				
Dilution Factor:	2.0			2.0				
ANALYTE	Result	RL	MDL	Result	RL	MDL		
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v		
Carbon Dioxide	0.62	0.020	0.00086	0.43	0.020	0.00086		
Oxygen/Argon	21	1.0	0.074	21	1.0	0.074		
Nitrogen	78	2.0	0.29	78	2.0	0.29		
Methane	0.0094	0.0020	0.000092	0.0058	0.0020	0.000092		

Results normalized including non-methane hydrocarbons

MDL = Method Detection Limit

ND= Not Detected (below MDL)

RL = Reporting Limit

J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By:

 Mark Johnson
 Operations Manager

Date


The cover letter is an integral part of this analytical report



QC Batch No.: 150721GC8A1

Matrix: Air

Units: % v/v

QC for ASTM D1946

Lab No.:	Method Blank	LCS	LCSD					
Date/Time Analyzed:	7/21/15 9:22	7/21/15 8:37	7/21/15 8:52					
Analyst Initials:	AS	AS	AS					
Datafile:	21jul005	21jul002	21jul003					
Dilution Factor:	1.0	1.0	1.0					
ANALYTE	Results	RL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Carbon Dioxide	ND	0.010	101	70-130%	99	70-130%	1.5	<30
Oxygen/Argon	ND	0.50	101	70-130%	100	70-130%	1.3	<30
Nitrogen	ND	1.0	101	70-130%	100	70-130%	1.2	<30
Methane	ND	0.0010	118	70-130%	117	70-130%	0.6	<30

ND = Not Detected (Below RL)

Reviewed/Approved By: 
Mark J. Johnson
Operations Manager

Date: 7/21/15

The cover letter is an integral part of this analytical report.



August 13, 2015

CH2M HILL
ATTN: Daniel Jablonski
5742 Costello Ave.
Van Nuys, CA 91401



ADE-1461
EPA Methods TO-3, TO14A, TO15 SIM & Scan, ASTM D1946



LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175

TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

UT Cert CA0133332014-1
EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: SFPP – Norwalk Site
Lab Number: G080507-01/03

Enclosed are results for sample(s) received 8/05/15 by Air Technology Laboratories. Samples were received intact. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

Preliminary results were e-mailed to Dan Jablonski, Vidal Cortes and Steve Defibaugh on 8/12/15.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in blue ink, appearing to read "Mark Johnson".

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

Air Technology Laboratories, Inc.

18501 Gale Ave # 130

City of Industry, CA 91748

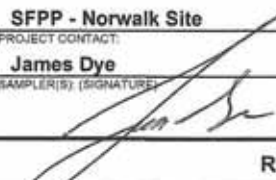
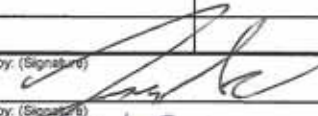
Tel: (626) 964-4032

Joann De La Ossa (JDeLaOssa@airtechlabs.com)

CHAIN OF CUSTODY RECORD

DATE: 8/4/15

PAGE: 1 OF 1

LABORATORY CLIENT: CH2M HILL: Attn - Dan Jablonski					CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site					P.O. NO.:																																																																																																																													
ADDRESS: 6 Hutton Centre Dr, Suite 700					PROJECT CONTACT: James Dye					QUOTE NO.:																																																																																																																													
CITY: Santa Ana, CA 92707					SAMPLER(S) / SIGNATURE: 					LAB USE ONLY <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																																																																																																																													
TEL: 714-429-2020		FAX:		E-MAIL: Dan.Jablonski@CH2M.com		REQUESTED ANALYSIS																																																																																																																																	
TURNAROUND TIME <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS																																																																																																																																							
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL ___/___/___																																																																																																																																							
SPECIAL INSTRUCTIONS Report: Jablonski, Daniel/LAC - Daniel.Jablonski@CH2M.com, Cortes, Vidal/SCO - Vidal.Cortes@CH2M.com CC: KMEP Steve Defibaugh - Steve_Defibaugh@kindermorgan.com "J" flags required/Use lowest possible detection limit - all methods.																																																																																																																																							
<table border="1"> <thead> <tr> <th rowspan="2">LAB USE ONLY</th> <th rowspan="2">SAMPLE ID</th> <th rowspan="2">LOCATION/ DESCRIPTION</th> <th colspan="4">SAMPLING</th> <th rowspan="2">MAT-RIX</th> <th rowspan="2">NO. OF CONT.</th> <th rowspan="2">TO-15 (VOCs Target Analytes)</th> <th rowspan="2">TO-3 (TPH-g)</th> <th rowspan="2">TGNMOC as Hexane (EPA 25.1)</th> <th rowspan="2">ASTM-D 1946 (O2/Argon, CO2, CH4, N2)</th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2">Comments</th> </tr> <tr> <th>DATE</th> <th>TIME</th> <th>INITIAL PRESSURE ("Hg)</th> <th>FINAL PRESSURE ("Hg)</th> </tr> </thead> <tbody> <tr> <td></td> <td>VINF- 08-04</td> <td>Influent Vapor (from header)</td> <td>8/4/15</td> <td>0807</td> <td>-30</td> <td>-5</td> <td>Air</td> <td>1</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Batch Certified 1-L SUMMA</td> </tr> <tr> <td></td> <td>VPOST- 08-04</td> <td>Post-Dilution</td> <td>8/4/15</td> <td>0800</td> <td>-30</td> <td>-5</td> <td>Air</td> <td>1</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Individually Certified 1-L SUMMA</td> </tr> <tr> <td></td> <td>VEFF- 08-04</td> <td>Outlet (stack)</td> <td>8/4/15</td> <td>0750</td> <td>-30</td> <td>-5</td> <td>Air</td> <td>1</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Individually Certified 1-L SUMMA</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>TAL includes historical VOCs and remaining ATLI List per subcontract.</td> </tr> </tbody> </table>													LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING				MAT-RIX	NO. OF CONT.	TO-15 (VOCs Target Analytes)	TO-3 (TPH-g)	TGNMOC as Hexane (EPA 25.1)	ASTM-D 1946 (O2/Argon, CO2, CH4, N2)										Comments	DATE	TIME	INITIAL PRESSURE ("Hg)	FINAL PRESSURE ("Hg)		VINF- 08-04	Influent Vapor (from header)	8/4/15	0807	-30	-5	Air	1	X	X	X												Batch Certified 1-L SUMMA		VPOST- 08-04	Post-Dilution	8/4/15	0800	-30	-5	Air	1	X	X	X												Individually Certified 1-L SUMMA		VEFF- 08-04	Outlet (stack)	8/4/15	0750	-30	-5	Air	1	X	X													Individually Certified 1-L SUMMA																								TAL includes historical VOCs and remaining ATLI List per subcontract.
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to 0805 ↓

Revised: 03/30/2015

Client: CH2M HILL
 Attn: Daniel Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 08/05/15
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	G080507-01			G080507-02			G080507-03		
Client Sample I.D.:	VINP-08-04			VPOST-08-04			VEFF-08-04		
Date/Time Sampled:	8/4/15 8:07			8/4/15 8:00			8/4/15 7:50		
Date/Time Analyzed:	8/11/15 11:41			8/11/15 13:31			8/11/15 15:19		
QC Batch No.:	150811MS2A1			150811MS2A1			150811MS2A1		
Analyst Initials:	DT			DT			DT		
Dilution Factor:	97			71			1.9		
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv
Dichlorodifluoromethane (12)	ND	0.097	0.015	ND	0.071	0.011	0.00033 J	0.0019	0.00030
Chloromethane	ND	0.19	0.021	ND	0.14	0.016	ND	0.0039	0.00043
1,2-CI-1,1,2,2-F ethane (114)	ND	0.097	0.020	ND	0.071	0.014	ND	0.0019	0.00039
Vinyl Chloride	ND	0.097	0.016	ND	0.071	0.011	ND	0.0019	0.00032
Bromomethane	0.056 J	0.097	0.028	ND	0.071	0.021	ND	0.0019	0.00057
Chloroethane	ND	0.097	0.082	ND	0.071	0.059	ND	0.0019	0.0016
Trichlorofluoromethane (11)	ND	0.097	0.021	ND	0.071	0.015	ND	0.0019	0.00042
1,1-Dichloroethene	ND	0.097	0.022	ND	0.071	0.016	ND	0.0019	0.00044
Carbon Disulfide	ND	0.49	0.023	0.062 J	0.35	0.017	0.019	0.0097	0.00047
1,1,2-CI 1,2,2-F ethane (113)	ND	0.097	0.026	ND	0.071	0.019	ND	0.0019	0.00052
Acetone	ND	0.49	0.028	0.38	0.35	0.020	0.038	0.0097	0.00056
Methylene Chloride	ND	0.097	0.028	ND	0.071	0.020	ND	0.0019	0.00055
t-1,2-Dichloroethene	ND	0.097	0.029	ND	0.071	0.021	ND	0.0019	0.00058
1,1-Dichloroethane	0.024 J	0.097	0.013	ND	0.071	0.0096	ND	0.0019	0.00026
c-1,2-Dichloroethene	ND	0.097	0.019	ND	0.071	0.014	ND	0.0019	0.00038
2-Butanone	ND	0.097	0.060	ND	0.071	0.044	0.034	0.0019	0.0012
t-Butyl Methyl Ether (MTBE)	ND	0.097	0.022	ND	0.071	0.016	0.087	0.0019	0.00043
Chloroform	ND	0.097	0.014	ND	0.071	0.0099	ND	0.0019	0.00027
1,1,1-Trichloroethane	ND	0.097	0.0097	ND	0.071	0.0071	ND	0.0019	0.00019
Carbon Tetrachloride	ND	0.097	0.017	ND	0.071	0.012	ND	0.0019	0.00034
Benzene	6.2	0.24	0.0093	4.9	0.18	0.0068	0.041	0.0049	0.00019
1,2-Dichloroethane	ND	0.097	0.0072	ND	0.071	0.0053	ND	0.0019	0.00014
Trichloroethene	ND	0.097	0.014	ND	0.071	0.010	ND	0.0019	0.00027
1,2-Dichloropropane	ND	0.097	0.018	ND	0.071	0.013	ND	0.0019	0.00035
Bromodichloromethane	ND	0.097	0.0058	ND	0.071	0.0043	0.0021	0.0019	0.00012
c-1,3-Dichloropropene	ND	0.097	0.012	ND	0.071	0.0085	ND	0.0019	0.00023
4-Methyl-2-Pentanone	ND	0.097	0.0065	ND	0.071	0.0048	ND	0.0019	0.00013
Toluene	7.7	0.097	0.0077	6.3	0.071	0.0056	0.058	0.0019	0.00015
t-1,3-Dichloropropene	ND	0.097	0.010	ND	0.071	0.0073	ND	0.0019	0.00020
1,1,2-Trichloroethane	ND	0.097	0.016	ND	0.071	0.011	ND	0.0019	0.00031
1,3-Dichloropropane	ND	0.097	0.0048	ND	0.071	0.0035	ND	0.0019	0.000097
Tetrachloroethene	ND	0.097	0.012	ND	0.071	0.0085	ND	0.0019	0.00023
2-Hexanone	ND	0.097	0.020	ND	0.071	0.015	ND	0.0019	0.00040
Dibromochloromethane	ND	0.097	0.018	ND	0.071	0.013	ND	0.0019	0.00035
1,2-Dibromoethane	ND	0.097	0.0089	ND	0.071	0.0064	ND	0.0019	0.00018
Chlorobenzene	ND	0.097	0.0076	ND	0.071	0.0055	ND	0.0019	0.00015
Ethylbenzene	0.71	0.097	0.0056	0.66	0.071	0.0041	0.0071	0.0019	0.00011
p,&m-Xylene	3.6	0.097	0.011	3.4	0.071	0.0080	0.038	0.0019	0.00022
o-Xylene	1.2	0.097	0.012	1.2	0.071	0.0086	0.017	0.0019	0.00024
Styrene	0.051 J	0.097	0.012	0.050 J	0.071	0.0091	0.00094 J	0.0019	0.00025



Client: CH2M HILL
 Attn: Daniel Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 08/05/15
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	G080507-01			G080507-02			G080507-03		
Client Sample I.D.:	VINP-08-04			VPOST-08-04			VEFF-08-04		
Date/Time Sampled:	8/4/15 8:07			8/4/15 8:00			8/4/15 7:50		
Date/Time Analyzed:	8/11/15 11:41			8/11/15 13:31			8/11/15 15:19		
QC Batch No.:	150811MS2A1			150811MS2A1			150811MS2A1		
Analyst Initials:	DT			DT			DT		
Dilution Factor:	97			71			1.9		
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv
Bromoform	ND	0.097	0.0054	ND	0.071	0.0039	ND	0.0019	0.00011
Isopropyl benzene	0.038 J	0.097	0.010	0.036 J	0.071	0.0074	0.00059 J	0.0019	0.00020
1,1,2,2-Tetrachloroethane	ND	0.19	0.0059	ND	0.14	0.0043	ND	0.0039	0.00012
Benzyl Chloride	ND	0.097	0.018	ND	0.071	0.013	ND	0.0019	0.00036
1,2,3-Trichloropropane	ND	0.097	0.026	ND	0.071	0.019	ND	0.0019	0.00052
n-Propyl Benzene	0.076 J	0.097	0.0057	0.079	0.071	0.0041	0.0016 J	0.0019	0.00011
4-Ethyl Toluene	0.50	0.097	0.0061	0.52	0.071	0.0045	0.012	0.0019	0.00012
1,3,5-Trimethylbenzene	0.20	0.19	0.017	0.21	0.14	0.012	0.0054	0.0039	0.00034
4-Chlorotoluene	ND	0.097	0.012	ND	0.071	0.0084	ND	0.0019	0.00023
tert-Butylbenzene	0.044 J	0.097	0.0088	0.049 J	0.071	0.0064	0.0018 J	0.0019	0.00018
1,2,4-Trimethylbenzene	0.33	0.19	0.011	0.36	0.14	0.0080	0.014	0.0039	0.00022
sec-Butylbenzene	ND	0.097	0.0094	0.0076 J	0.071	0.0068	0.00031 J	0.0019	0.00019
p-Isopropyltoluene	ND	0.097	0.013	ND	0.071	0.0092	0.00086 J	0.0019	0.00025
1,3-Dichlorobenzene	ND	0.097	0.012	ND	0.071	0.0086	ND	0.0019	0.00024
1,4-Dichlorobenzene	ND	0.097	0.014	ND	0.071	0.010	ND	0.0019	0.00028
n-Butylbenzene	0.016 J	0.097	0.0071	ND	0.071	0.0052	ND	0.0019	0.00014
1,2-Dichlorobenzene	ND	0.097	0.012	ND	0.071	0.0088	ND	0.0019	0.00024
1,2,4-Trichlorobenzene	ND	0.19	0.016	ND	0.14	0.012	ND	0.0039	0.00032
Hexachlorobutadiene	ND	0.097	0.0057	ND	0.071	0.0042	ND	0.0019	0.00011
t-Butanol	ND	0.49	0.019	ND	0.35	0.014	ND	0.0097	0.00037
n-Hexane	21	0.49	0.013	16	0.35	0.0095	0.23	0.0097	0.00026
Isopropyl ether	ND	0.49	0.011	ND	0.35	0.0079	ND	0.0097	0.00022
t-Butyl ethyl ether	ND	0.49	0.019	ND	0.35	0.014	ND	0.0097	0.00039
2,2-Dichloropropane	ND	0.49	0.0092	ND	0.35	0.0067	ND	0.0097	0.00018
t-Amyl methyl ether	ND	0.49	0.0069	ND	0.35	0.0050	ND	0.0097	0.00014
1,4-Dioxane	ND	0.49	0.017	ND	0.35	0.012	ND	0.0097	0.00034
Naphthalene	ND	0.49	0.037	ND	0.35	0.027	0.0027 J	0.0097	0.00075
1,2,3-Trichlorobenzene (TIC)	ND	--	--	ND	--	--	ND	--	--

ND = Not Detected (below RL)
 RL = Reporting Limit
 J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date: 8-12-15

The cover letter is an integral part of this analytical report



Client: CH2M HILL
 Attn: Daniel Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 08/05/15
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	METHOD BLANK													
Client Sample I.D.:	-													
Date/Time Sampled:	-													
Date/Time Analyzed:	8/11/15 9:42													
QC Batch No.:	150811MS2A1													
Analyst Initials:	DT													
Dilution Factor:	0.20													
ANALYTE	Result ppmv	RL ppmv	MDL ppmv											
Dichlorodifluoromethane (12)	ND	0.00020	0.000031											
Chloromethane	ND	0.00040	0.000044											
1,2-CI-1,1,2,2-F ethane (114)	ND	0.00020	0.000040											
Vinyl Chloride	ND	0.00020	0.000032											
Bromomethane	0.00011 J	0.00020	0.000059											
Chloroethane	ND	0.00020	0.00017											
Trichlorofluoromethane (11)	ND	0.00020	0.000043											
1,1-Dichloroethene	ND	0.00020	0.000045											
Carbon Disulfide	ND	0.0010	0.000048											
1,1,2-CI 1,2,2-F ethane (113)	ND	0.00020	0.000054											
Acetone	0.00012 J	0.0010	0.000058											
Methylene Chloride	ND	0.00020	0.000057											
t-1,2-Dichloroethene	ND	0.00020	0.000060											
1,1-Dichloroethane	ND	0.00020	0.000027											
c-1,2-Dichloroethene	ND	0.00020	0.000039											
2-Butanone	ND	0.00020	0.00012											
t-Butyl Methyl Ether (MTBE)	ND	0.00020	0.000045											
Chloroform	ND	0.00020	0.000028											
1,1,1-Trichloroethane	ND	0.00020	0.000020											
Carbon Tetrachloride	ND	0.00020	0.000035											
Benzene	0.000029 J	0.00050	0.000019											
1,2-Dichloroethane	ND	0.00020	0.000015											
Trichloroethene	ND	0.00020	0.000028											
1,2-Dichloropropane	ND	0.00020	0.000036											
Bromodichloromethane	ND	0.00020	0.000012											
c-1,3-Dichloropropene	ND	0.00020	0.000024											
4-Methyl-2-Pentanone	ND	0.00020	0.000013											
Toluene	ND	0.00020	0.000016											
t-1,3-Dichloropropene	ND	0.00020	0.000021											
1,1,2-Trichloroethane	ND	0.00020	0.000032											
1,3-Dichloropropane	ND	0.00020	0.000099											
Tetrachloroethene	ND	0.00020	0.000024											
2-Hexanone	ND	0.00020	0.000041											
Dibromochloromethane	ND	0.00020	0.000036											
1,2-Dibromoethane	ND	0.00020	0.000018											
Chlorobenzene	ND	0.00020	0.000016											
Ethylbenzene	ND	0.00020	0.000011											
p,&m-Xylene	ND	0.00020	0.000023											
o-Xylene	ND	0.00020	0.000024											
Styrene	ND	0.00020	0.000026											



Client: CH2M HILL
 Attn: Daniel Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 08/05/15
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	METHOD BLANK																	
Client Sample I.D.:	-																	
Date/Time Sampled:	-																	
Date/Time Analyzed:	8/11/15 9:42																	
QC Batch No.:	150811MS2A1																	
Analyst Initials:	DT																	
Dilution Factor:	0.20																	
ANALYTE	Result ppmv	RL ppmv	MDL ppmv															
Bromoform	ND	0.00020	0.00011															
Isopropyl benzene	ND	0.00020	0.00021															
1,1,2,2-Tetrachloroethane	ND	0.00040	0.00012															
Benzyl Chloride	ND	0.00020	0.000037															
1,2,3-Trichloropropane	ND	0.00020	0.000054															
n-Propyl Benzene	ND	0.00020	0.000012															
4-Ethyl Toluene	ND	0.00020	0.000013															
1,3,5-Trimethylbenzene	ND	0.00040	0.000035															
4-Chlorotoluene	ND	0.00020	0.000024															
tert-Butylbenzene	ND	0.00020	0.000018															
1,2,4-Trimethylbenzene	ND	0.00040	0.000023															
sec-Butylbenzene	ND	0.00020	0.000019															
p-Isopropyltoluene	ND	0.00020	0.000026															
1,3-Dichlorobenzene	ND	0.00020	0.000024															
1,4-Dichlorobenzene	ND	0.00020	0.000029															
n-Butylbenzene	ND	0.00020	0.000015															
1,2-Dichlorobenzene	ND	0.00020	0.000025															
1,2,4-Trichlorobenzene	ND	0.00040	0.000033															
Hexachlorobutadiene	ND	0.00020	0.000012															
t-Butanol	ND	0.0010	0.000038															
n-Hexane	ND	0.0010	0.000027															
Isopropyl ether	ND	0.0010	0.000022															
t-Butyl ethyl ether	ND	0.0010	0.000040															
2,2-Dichloropropane	ND	0.0010	0.000019															
t-Amyl methyl ether	ND	0.0010	0.000014															
1,4-Dioxane	ND	0.0010	0.000035															
Naphthalene	ND	0.0010	0.000077															
1,2,3-Trichlorobenzene (TIC)	ND	--	--															

ND = Not Detected (below RL)
 RL = Reporting Limit
 J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date: 8-12-15

The cover letter is an integral part of this analytical report



QC Batch #: 150811MS2A1

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD						
Date/Time Analyzed:	8/11/15 9:42		8/11/15 3:42		8/11/15 4:21						
Data File ID:	11AUG011.D		11AUG005.D		11AUG006.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0		Limits				
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/Fail
1,1-Dichloroethene	0.0	10.0	10.6	106	9.5	95	11.4	70	130	30	Pass
Methylene Chloride	0.0	10.0	11.2	112	9.9	99	12.6	70	130	30	Pass
Trichloroethene	0.0	10.0	10.4	104	10.5	105	0.7	70	130	30	Pass
Toluene	0.0	10.0	9.9	99	10.2	102	2.8	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	9.8	98	9.6	96	2.5	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 8-12-15

The cover letter is an integral part of this analytical report.

Client: CH2M HILL
 Attn: Daniel Jablonski

Client's Project: SFPP - Norwalk Site; NA
 Date Received: 8/5/2015
 Matrix: Air

TGNMOC by SCAQMD 25.1

Lab No.:	G080507-01			G080507-02			G080507-03			
Client Sample I.D.:	VINP-08-04			VPOST-08-04			VEFF-08-04			
Date/ Time Sampled:	8/4/2015 8:07			8/4/2015 8:00			8/4/2015 7:50			
Date/ Time Analyzed:	8/6/2015 12:10			8/6/2015 12:55			8/6/2015 13:38			
Analyst Initials:	AS			AS			AS			
Data Files:	06AUG016/017			06AUG019/020			06AUG022/023			
QC Batch:	150806GC8A1			150806GC8A1			150806GC8A1			
Dilution Factor:	1.9			2.0			1.9			
ANALYTE	Units	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL
TGNMOC as Hexane	ppmv C	560	3.2	0.99	370	3.3	1.0	23	3.2	0.99
Methane	ppmv	53	19	2.2	36	20	2.3	ND	19	2.2

ND = Not detected above method detection limit (MDL)
 PQL = Practical Quantitation Limit.
 TGNMOC = Total Gaseous Non-Methane Organic Carbon.
 J = Trace amount. Analyte concentration between MDL and RL.
 RL = Reporting Limit.

Reviewed/Approved By: 
 Mark J. Johnson
 Operations Manager

Date: 8-12-12

The cover letter is an integral part of this analytical report.



QC Batch No.: 150806GC8A1
 Matrix: Air
 Units: ppmv

QC for TGNMOC by SCAQMD 25.1

Lab No.:	Method Blank			LCS		LCSD			
Date Analyzed:	8/6/2015 11:14			8/6/2015 09:07		8/6/2015 09:22			
Analyst Initials:	AS			AS		AS			
Datafile:	06AUG007			06AUG004		06AUG005			
Dilution Factor:	1.0			1.0		1.0			
ANALYTE	Results	RL	MDL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
TGNMOC as Hexane	ND	1.7	0.51	117	70-130%	116	70-130%	1.4	<30
Methane	4.5 J	10	1.1	108	70-130%	107	70-130%	0.6	<30

ND = Not Detected (Below MDL)

RL = Reporting Limit

MDL = Method Detection Limit

J = Trace amount below the RL and equal to or above the MDL

Reviewed/Approved By: Mark J. Johnson
 Mark J. Johnson
 Operations Manager

Date: 8-12-15

The cover letter is an integral part of this analytical report.



Client: CH2M HILL
Attn: Daniel Jablonski
Project Name: SFPP - Norwalk Site
Project No.: NA
Date Received: 08/05/15
Matrix: Air
Reporting Units: % v/v

Page 9 of 10
 G080507

ASTM D1946

Lab No.:	G080507-01	G080507-02								
Client Sample I.D.:	VINF-08-04	VPOST-08-04								
Date/Time Sampled:	8/4/15 8:07	8/4/15 8:00								
Date/Time Analyzed:	8/6/15 12:10	8/6/15 12:55								
QC Batch No.:	150806GC8A1	150806GC8A1								
Analyst Initials:	AS	AS								
Dilution Factor:	1.9	2.0								
ANALYTE	Result % v/v	RL % v/v	MDL % v/v	Result % v/v	RL % v/v	MDL % v/v				
Carbon Dioxide	0.49	0.019	0.00082	0.40	0.020	0.00084				
Oxygen/Argon	21	0.97	0.071	21	0.99	0.073				
Nitrogen	78	1.9	0.28	78	2.0	0.29				
Methane	0.0053	0.0019	0.000089	0.0037	0.0020	0.000091				

Results normalized including non-methane hydrocarbons
 MDL = Method Detection Limit
 ND= Not Detected (below MDL)
 RL = Reporting Limit
 J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 8-12-15

The cover letter is an integral part of this analytical report.




QC Batch No.: 150806GC8A1
Matrix: Air
Units: % v/v

QC for ASTM D1946

Lab No.:	Method Blank			LCS		LCSD			
Date/Time Analyzed:	8/6/15 9:52			8/6/15 9:07		8/6/15 9:22			
Analyst Initials:	AS			AS		AS			
Datafile:	06aug007			06aug004		06aug005			
Dilution Factor:	1.0			1.0		1.0			
ANALYTE	Results	RL	MDL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Carbon Dioxide	0.0020 J	0.010	0.00042	98	70-130%	98	70-130%	0.2	<30
Oxygen/Argon	0.19 J	0.50	0.037	99	70-130%	100	70-130%	0.5	<30
Nitrogen	0.63 J	1.0	0.14	99	70-130%	100	70-130%	0.4	<30
Methane	ND	0.0010	0.000046	108	70-130%	107	70-130%	0.6	<30

PQL = Practical Quantitation Limit
 ND = Not Detected (Below RL)
 RL = PQL X Dilution Factor
 J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: 
 Mark J. Johnson
 Operations Manager

Date: 8-12-15

The cover letter is an integral part of this analytical report.



August 20, 2015

CH2M HILL
ATTN: Daniel Jablonski
5742 Costello Ave.
Van Nuys, CA 91401



ADE-1461
EPA Methods TO-3, TO14A, TO15 SIM & Scan, ASTM D1946



LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175

TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

UT Cert CA0133332014-1
EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: SFPP - Norwalk Site
Lab Number: G081801-01/09

Enclosed are results for sample(s) received 8/18/15 by Air Technology Laboratories. Samples were received intact. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

Preliminary results were e-mailed to Daniel Jablonski, Steve Defibaugh and Vidal Cortes on 8/19/15.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in blue ink, appearing to read "Mark Johnson".

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

Air Technology Laboratories, Inc.
 18501 Gale Ave # 130
 City of Industry, CA 91748
 Tel: (626) 964-4032
 Joann De La Ossa (JDeLaOssa@airtechlabs.com)

G081801-01/09

CHAIN OF CUSTODY RECORD

DATE: 08/17/15
 PAGE: 1 OF 1

LABORATORY CLIENT: CH2M HILL: Attn - Dan Jablonski				CLIENT PROJECT NAME / NUMBER: SFPF - Norwalk Site				P.O. NO.:																																																																																																																																													
ADDRESS: 6 Hutton Centre Dr, Suite 700				PROJECT CONTACT: James Dye				QUOTE NO.:																																																																																																																																													
CITY: Santa Ana, CA 92707				SAMPLER(S) (SIGNATURE): 				LAB USE ONLY: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																																																																																																																																													
TEL: 714-429-2020		FAX:		E-MAIL: Daniel.Jablonski@CH2M.com		REQUESTED ANALYSIS																																																																																																																																															
TURNAROUND TIME: <input type="checkbox"/> SAME DAY <input checked="" type="checkbox"/> 24 HR <input type="checkbox"/> 48HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS																																																																																																																																																					
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL / /						TO-15 (VOCs Target Analytes) TO-3 (TPH-g) TGNMOC as Hexane (EPA 25.1) ASTM-D 1946 (O2/Argon, CO2, CH4, N2)																																																																																																																																															
SPECIAL INSTRUCTIONS: Report: Jablonski, Daniel/LAC - Daniel.Jablonski@CH2M.com, Cortes, Vidal/SCO - Vidal.Cortes@CH2M.com CC: KMEP Steve Defibaugh - Steve_Defibaugh@kindermorgan.com "J" flags required/Use lowest possible detection limit - all methods.																																																																																																																																																					
<table border="1"> <thead> <tr> <th rowspan="2">LAB USE ONLY</th> <th rowspan="2">SAMPLE ID</th> <th rowspan="2">LOCATION/ DESCRIPTION</th> <th colspan="4">SAMPLING</th> <th rowspan="2">MAT-RIX</th> <th rowspan="2">NO. OF CONT.</th> <th rowspan="2">TO-15 (VOCs Target Analytes)</th> <th rowspan="2">TO-3 (TPH-g)</th> <th rowspan="2">TGNMOC as Hexane (EPA 25.1)</th> <th rowspan="2">ASTM-D 1946 (O2/Argon, CO2, CH4, N2)</th> <th rowspan="2">Comments</th> </tr> <tr> <th>DATE</th> <th>TIME</th> <th>INITIAL PRESSURE ("Hg)</th> <th>FINAL PRESSURE ("Hg)</th> </tr> </thead> <tbody> <tr> <td>-01</td> <td>VPOST1-08-17</td> <td>Post-Dilution 1</td> <td>8/17/2015</td> <td>1244</td> <td>-30</td> <td>-5</td> <td>Air</td> <td>1</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>TAL includes historical VOCs</td> </tr> <tr> <td>02</td> <td>VEFF1-08-17</td> <td>Outlet (stack) 1</td> <td>8/17/2015</td> <td>1238</td> <td>-30</td> <td>-5</td> <td>Air</td> <td>1</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>and remaining ATLI List per subcontract.</td> </tr> <tr> <td>03</td> <td>VPOST2-08-17</td> <td>Post-Dilution 2</td> <td>8/17/2015</td> <td>1310</td> <td>-30</td> <td>-5</td> <td>Air</td> <td>1</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>04</td> <td>VEFF2-08-17</td> <td>Outlet (stack) 2</td> <td>8/17/2015</td> <td>1308</td> <td>-30</td> <td>-5</td> <td>Air</td> <td>1</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>05</td> <td>VPOST3-08-17</td> <td>Post-Dilution 3</td> <td>8/17/2015</td> <td>1341</td> <td>-30</td> <td>-5</td> <td>Air</td> <td>1</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>06</td> <td>VEFF3-08-17</td> <td>Outlet (stack) 3</td> <td>8/17/2015</td> <td>1340</td> <td>-30</td> <td>-5</td> <td>Air</td> <td>1</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>07</td> <td>VPOST4-08-17</td> <td>Post-Dilution 4</td> <td>8/17/2015</td> <td>1411</td> <td>-30</td> <td>-5</td> <td>Air</td> <td>1</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>08</td> <td>VEFF4-08-17</td> <td>Outlet (stack) 4</td> <td>8/17/2015</td> <td>1409</td> <td>-30</td> <td>-5</td> <td>Air</td> <td>1</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>09</td> <td>VEFF5-08-17</td> <td>Outlet (stack) 5</td> <td>8/17/15</td> <td>1444</td> <td>-30</td> <td>-5</td> <td>Air</td> <td>1</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>												LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING				MAT-RIX	NO. OF CONT.	TO-15 (VOCs Target Analytes)	TO-3 (TPH-g)	TGNMOC as Hexane (EPA 25.1)	ASTM-D 1946 (O2/Argon, CO2, CH4, N2)	Comments	DATE	TIME	INITIAL PRESSURE ("Hg)	FINAL PRESSURE ("Hg)	-01	VPOST1-08-17	Post-Dilution 1	8/17/2015	1244	-30	-5	Air	1	X	X			TAL includes historical VOCs	02	VEFF1-08-17	Outlet (stack) 1	8/17/2015	1238	-30	-5	Air	1	X	X			and remaining ATLI List per subcontract.	03	VPOST2-08-17	Post-Dilution 2	8/17/2015	1310	-30	-5	Air	1	X	X				04	VEFF2-08-17	Outlet (stack) 2	8/17/2015	1308	-30	-5	Air	1	X	X				05	VPOST3-08-17	Post-Dilution 3	8/17/2015	1341	-30	-5	Air	1	X	X				06	VEFF3-08-17	Outlet (stack) 3	8/17/2015	1340	-30	-5	Air	1	X	X				07	VPOST4-08-17	Post-Dilution 4	8/17/2015	1411	-30	-5	Air	1	X	X				08	VEFF4-08-17	Outlet (stack) 4	8/17/2015	1409	-30	-5	Air	1	X	X				09	VEFF5-08-17	Outlet (stack) 5	8/17/15	1444	-30	-5	Air
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING				MAT-RIX	NO. OF CONT.	TO-15 (VOCs Target Analytes)	TO-3 (TPH-g)	TGNMOC as Hexane (EPA 25.1)				ASTM-D 1946 (O2/Argon, CO2, CH4, N2)	Comments																																																																																																																																					
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07	VPOST4-08-17	Post-Dilution 4	8/17/2015	1411	-30	-5	Air	1	X	X																																																																																																																																											
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Relinquished by: (Signature) 				Received by: (Signature) 				Date: 8/17/15		Time: 1500																																																																																																																																											
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Relinquished by: (Signature)				Received by: (Signature)				Date:		Time:																																																																																																																																											

Client: CH2M HILL
 Attn: Dan Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 08/18/15
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	G081801-01			G081801-02			G081801-03			G081801-04		
Client Sample I.D.:	VPOST1-08-17			VEFF1-08-17			VPOST2-08-17			VEFF2-08-17		
Date/Time Sampled:	8/17/15 12:44			8/17/15 12:38			8/17/15 13:10			8/17/15 13:08		
Date/Time Analyzed:	8/18/15 14:26			8/18/15 17:05			8/18/15 15:06			8/18/15 18:37		
QC Batch No.:	150818MS2A1			150818MS2A1			150818MS2A1			150818MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	99			2.1			100			1.9		
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv
Dichlorodifluoromethane (12)	ND	0.099	0.013	ND	0.0021	0.00028	ND	0.10	0.014	0.00027 J	0.0019	0.00026
Chloromethane	ND	0.20	0.018	ND	0.0041	0.00037	ND	0.20	0.018	ND	0.0039	0.00035
1,2-CI-1,1,2,2-F ethane (114)	ND	0.099	0.0044	ND	0.0021	0.000091	ND	0.10	0.0044	ND	0.0019	0.000085
Vinyl Chloride	ND	0.099	0.013	ND	0.0021	0.00027	ND	0.10	0.013	ND	0.0019	0.00025
Bromomethane	ND	0.099	0.031	0.0023	0.0021	0.00065	ND	0.10	0.032	ND	0.0019	0.00062
Chloroethane	ND	0.099	0.083	ND	0.0021	0.0017	ND	0.10	0.085	ND	0.0019	0.0016
Trichlorofluoromethane (11)	ND	0.099	0.012	ND	0.0021	0.00026	ND	0.10	0.013	ND	0.0019	0.00024
1,1-Dichloroethene	ND	0.099	0.017	ND	0.0021	0.00036	ND	0.10	0.018	ND	0.0019	0.00034
Carbon Disulfide	ND	0.50	0.017	0.0020 J	0.010	0.00036	ND	0.51	0.018	0.0052 J	0.0097	0.00034
1,1,2-Cl 1,2,2-F ethane (113)	ND	0.099	0.017	ND	0.0021	0.00035	ND	0.10	0.017	ND	0.0019	0.00033
Acetone	ND	0.50	0.053	0.026	0.010	0.0011	0.39 J	0.51	0.054	0.023	0.0097	0.0010
Methylene Chloride	ND	0.099	0.018	ND	0.0021	0.00037	ND	0.10	0.018	ND	0.0019	0.00035
t-1,2-Dichloroethene	ND	0.099	0.022	ND	0.0021	0.00046	ND	0.10	0.022	ND	0.0019	0.00043
1,1-Dichloroethane	ND	0.099	0.015	ND	0.0021	0.00031	ND	0.10	0.015	ND	0.0019	0.00029
c-1,2-Dichloroethene	ND	0.099	0.019	ND	0.0021	0.00039	ND	0.10	0.019	ND	0.0019	0.00036
2-Butanone	ND	0.099	0.025	0.0061	0.0021	0.00051	0.026 J	0.10	0.025	0.0073	0.0019	0.00048
t-Butyl Methyl Ether (MTBE)	ND	0.099	0.012	ND	0.0021	0.00026	ND	0.10	0.013	ND	0.0019	0.00024
Chloroform	ND	0.099	0.013	ND	0.0021	0.00027	ND	0.10	0.013	ND	0.0019	0.00025
1,1,1-Trichloroethane	ND	0.099	0.013	ND	0.0021	0.00027	ND	0.10	0.013	ND	0.0019	0.00025
Carbon Tetrachloride	ND	0.099	0.0097	ND	0.0021	0.00020	ND	0.10	0.0099	ND	0.0019	0.00019
Benzene	4.8	0.099	0.0045	0.0011 J	0.0021	0.000095	5.0	0.10	0.0046	0.00098 J	0.0019	0.000089
1,2-Dichloroethane	ND	0.099	0.011	ND	0.0021	0.00023	ND	0.10	0.011	ND	0.0019	0.00021
Trichloroethene	ND	0.099	0.010	ND	0.0021	0.00022	ND	0.10	0.011	ND	0.0019	0.00020
1,2-Dichloropropane	ND	0.099	0.0080	ND	0.0021	0.00017	ND	0.10	0.0081	ND	0.0019	0.00016
Bromodichloromethane	ND	0.099	0.0067	ND	0.0021	0.00014	ND	0.10	0.0068	ND	0.0019	0.00013
c-1,3-Dichloropropene	ND	0.099	0.012	ND	0.0021	0.00025	ND	0.10	0.012	ND	0.0019	0.00024
4-Methyl-2-Pentanone	ND	0.099	0.013	ND	0.0021	0.00027	ND	0.10	0.013	ND	0.0019	0.00026
Toluene	5.4	0.099	0.0073	0.020	0.0021	0.00015	5.8	0.10	0.0075	0.024	0.0019	0.00014
t-1,3-Dichloropropene	ND	0.099	0.011	ND	0.0021	0.00023	ND	0.10	0.011	ND	0.0019	0.00021
1,1,2-Trichloroethane	ND	0.099	0.012	ND	0.0021	0.00025	ND	0.10	0.012	ND	0.0019	0.00023
1,3-Dichloropropane	ND	0.099	0.0049	ND	0.0021	0.00010	ND	0.10	0.0050	ND	0.0019	0.000097
Tetrachloroethene	ND	0.099	0.011	ND	0.0021	0.00022	ND	0.10	0.011	ND	0.0019	0.00021
2-Hexanone	ND	0.099	0.032	ND	0.0021	0.00066	ND	0.10	0.032	ND	0.0019	0.00062
Dibromochloromethane	ND	0.099	0.0066	ND	0.0021	0.00014	ND	0.10	0.0067	ND	0.0019	0.00013
1,2-Dibromoethane	ND	0.099	0.0095	ND	0.0021	0.00020	ND	0.10	0.0097	ND	0.0019	0.00019
Chlorobenzene	ND	0.099	0.0095	ND	0.0021	0.00020	ND	0.10	0.0097	ND	0.0019	0.00019
Ethylbenzene	0.50	0.099	0.0090	0.0020 J	0.0021	0.00019	0.52	0.10	0.0091	0.0025	0.0019	0.00018
p,&m-Xylene	2.7	0.099	0.018	0.012	0.0021	0.00036	2.9	0.10	0.018	0.015	0.0019	0.00034
o-Xylene	0.90	0.099	0.015	0.0038	0.0021	0.00031	0.97	0.10	0.015	0.0049	0.0019	0.00029



Client: CH2M HILL
 Attn: Dan Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 08/18/15
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	G081801-01			G081801-02			G081801-03			G081801-04		
Client Sample I.D.:	VPOST1-08-17			VEFF1-08-17			VPOST2-08-17			VEFF2-08-17		
Date/Time Sampled:	8/17/15 12:44			8/17/15 12:38			8/17/15 13:10			8/17/15 13:08		
Date/Time Analyzed:	8/18/15 14:26			8/18/15 17:05			8/18/15 15:06			8/18/15 18:37		
QC Batch No.:	150818MS2A1			150818MS2A1			150818MS2A1			150818MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	99			2.1			100			1.9		
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv
Styrene	0.042 J	0.099	0.013	0.00056 J	0.0021	0.00027	0.044 J	0.10	0.013	0.00076 J	0.0019	0.00025
Bromoform	ND	0.099	0.011	ND	0.0021	0.00022	ND	0.10	0.011	ND	0.0019	0.00021
Isopropyl benzene	0.037 J	0.099	0.011	ND	0.0021	0.00022	0.024 J	0.10	0.011	ND	0.0019	0.00021
1,1,2,2-Tetrachloroethane	ND	0.20	0.0068	ND	0.0041	0.00014	ND	0.20	0.0070	ND	0.0039	0.00013
Benzyl Chloride	ND	0.099	0.0097	ND	0.0021	0.00020	ND	0.10	0.0098	ND	0.0019	0.00019
1,2,3-Trichloropropane	ND	0.099	0.012	ND	0.0021	0.00025	ND	0.10	0.012	ND	0.0019	0.00023
n-Propyl Benzene	0.042 J	0.099	0.0078	0.00049 J	0.0021	0.00016	0.041 J	0.10	0.0079	0.00055 J	0.0019	0.00015
4-Ethyl Toluene	0.24	0.099	0.0085	0.0033	0.0021	0.00018	0.30	0.10	0.0087	0.0040	0.0019	0.00017
1,3,5-Trimethylbenzene	0.087 J	0.20	0.010	0.0019 J	0.0041	0.00021	0.11 J	0.20	0.010	0.0024 J	0.0039	0.00020
4-Chlorotoluene	ND	0.099	0.010	ND	0.0021	0.00022	ND	0.10	0.011	ND	0.0019	0.00020
tert-Butylbenzene	ND	0.099	0.0078	ND	0.0021	0.00016	ND	0.10	0.0080	ND	0.0019	0.00015
1,2,4-Trimethylbenzene	0.13 J	0.20	0.014	0.0065	0.0041	0.00028	0.18 J	0.20	0.014	0.0083	0.0039	0.00027
sec-Butylbenzene	ND	0.099	0.011	ND	0.0021	0.00023	ND	0.10	0.011	ND	0.0019	0.00021
p-Isopropyltoluene	0.059 J	0.099	0.0098	0.00050 J	0.0021	0.00020	ND	0.10	0.010	0.00074 J	0.0019	0.00019
1,3-Dichlorobenzene	ND	0.099	0.0097	ND	0.0021	0.00020	ND	0.10	0.0099	ND	0.0019	0.00019
1,4-Dichlorobenzene	ND	0.099	0.0080	ND	0.0021	0.00017	ND	0.10	0.0082	ND	0.0019	0.00016
n-Butylbenzene	ND	0.099	0.011	ND	0.0021	0.00022	ND	0.10	0.011	ND	0.0019	0.00021
1,2-Dichlorobenzene	ND	0.099	0.011	ND	0.0021	0.00024	ND	0.10	0.012	ND	0.0019	0.00022
1,2,4-Trichlorobenzene	ND	0.20	0.029	ND	0.0041	0.00060	ND	0.20	0.029	ND	0.0039	0.00056
Hexachlorobutadiene	ND	0.099	0.014	ND	0.0021	0.00028	ND	0.10	0.014	ND	0.0019	0.00027
t-Butanol	ND	0.50	0.031	ND	0.010	0.00064	ND	0.51	0.031	ND	0.0097	0.00060
n-Hexane	19	0.50	0.020	0.00068 J	0.010	0.00042	19	0.51	0.020	0.00060 J	0.0097	0.00039
Isopropyl ether	ND	0.50	0.015	ND	0.010	0.00031	ND	0.51	0.015	ND	0.0097	0.00030
t-Butyl ethyl ether	ND	0.50	0.021	ND	0.010	0.00043	ND	0.51	0.021	ND	0.0097	0.00041
2,2-Dichloropropane	ND	0.50	0.017	ND	0.010	0.00036	ND	0.51	0.017	ND	0.0097	0.00034
t-Amyl methyl ether	ND	0.50	0.0099	ND	0.010	0.00021	ND	0.51	0.010	ND	0.0097	0.00019
1,4-Dioxane	ND	0.50	0.015	ND	0.010	0.00031	ND	0.51	0.015	ND	0.0097	0.00029
Naphthalene	ND	0.50	0.024	0.0014 J	0.010	0.00049	ND	0.51	0.024	0.0025 J	0.0097	0.00046
1,2,3-Trichlorobenzene (TIC)		--			--			--			--	

ND = Not Detected (below RL)
 RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 8/20/15

The cover sheet is an integral part of this analytical report



Client: CH2M HILL
 Attn: Dan Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 08/18/15
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	G081801-05			G081801-06			G081801-07			G081801-08		
Client Sample I.D.:	VPOST3-08-17			VEFF3-08-17			VPOST4-08-17			VEFF4-08-17		
Date/Time Sampled:	8/17/15 13:41			8/17/15 13:40			8/17/15 14:11			8/17/15 14:09		
Date/Time Analyzed:	8/18/15 15:46			8/18/15 19:19			8/18/15 16:26			8/18/15 19:59		
QC Batch No.:	150818MS2A1			150818MS2A1			150818MS2A1			150818MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	97			1.9			99			2.0		
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv
Dichlorodifluoromethane (12)	ND	0.097	0.013	0.00027 J	0.0019	0.00026	ND	0.099	0.013	ND	0.0020	0.00027
Chloromethane	ND	0.19	0.018	ND	0.0039	0.00035	ND	0.20	0.018	ND	0.0040	0.00036
1,2-CI-1,1,2,2-F ethane (114)	ND	0.097	0.0043	ND	0.0019	0.000085	ND	0.099	0.0044	ND	0.0020	0.000087
Vinyl Chloride	ND	0.097	0.013	ND	0.0019	0.00025	ND	0.099	0.013	ND	0.0020	0.00026
Bromomethane	ND	0.097	0.031	ND	0.0019	0.00062	ND	0.099	0.031	ND	0.0020	0.00063
Chloroethane	ND	0.097	0.082	ND	0.0019	0.0016	ND	0.099	0.083	ND	0.0020	0.0017
Trichlorofluoromethane (11)	ND	0.097	0.012	ND	0.0019	0.00024	ND	0.099	0.012	ND	0.0020	0.00025
1,1-Dichloroethene	ND	0.097	0.017	ND	0.0019	0.00034	ND	0.099	0.017	ND	0.0020	0.00034
Carbon Disulfide	0.085 J	0.49	0.017	0.0063 J	0.0097	0.00034	ND	0.50	0.017	ND	0.0099	0.00035
1,1,2-CI 1,2,2-F ethane (113)	ND	0.097	0.017	ND	0.0019	0.00033	ND	0.099	0.017	ND	0.0020	0.00034
Acetone	ND	0.49	0.052	0.023	0.0097	0.0010	ND	0.50	0.053	0.014	0.0099	0.0011
Methylene Chloride	ND	0.097	0.018	ND	0.0019	0.00035	ND	0.099	0.018	ND	0.0020	0.00036
t-1,2-Dichloroethene	ND	0.097	0.022	ND	0.0019	0.00043	ND	0.099	0.022	ND	0.0020	0.00044
1,1-Dichloroethane	ND	0.097	0.015	ND	0.0019	0.00029	ND	0.099	0.015	ND	0.0020	0.00030
c-1,2-Dichloroethene	ND	0.097	0.018	ND	0.0019	0.00036	ND	0.099	0.019	ND	0.0020	0.00037
2-Butanone	0.042 J	0.097	0.024	0.0062	0.0019	0.00048	ND	0.099	0.025	0.0051	0.0020	0.00049
t-Butyl Methyl Ether (MTBE)	ND	0.097	0.012	ND	0.0019	0.00024	ND	0.099	0.012	ND	0.0020	0.00025
Chloroform	ND	0.097	0.013	ND	0.0019	0.00025	ND	0.099	0.013	ND	0.0020	0.00026
1,1,1-Trichloroethane	ND	0.097	0.013	ND	0.0019	0.00025	ND	0.099	0.013	ND	0.0020	0.00026
Carbon Tetrachloride	ND	0.097	0.0096	ND	0.0019	0.00019	ND	0.099	0.0097	ND	0.0020	0.00019
Benzene	5.1	0.097	0.0045	0.00088 J	0.0019	0.000089	5.2	0.099	0.0045	0.00092 J	0.0020	0.000091
1,2-Dichloroethane	ND	0.097	0.011	ND	0.0019	0.00021	ND	0.099	0.011	ND	0.0020	0.00022
Trichloroethene	ND	0.097	0.010	ND	0.0019	0.00020	ND	0.099	0.010	ND	0.0020	0.00021
1,2-Dichloropropane	ND	0.097	0.0078	ND	0.0019	0.00016	ND	0.099	0.0080	ND	0.0020	0.00016
Bromodichloromethane	ND	0.097	0.0066	ND	0.0019	0.00013	ND	0.099	0.0067	ND	0.0020	0.00013
c-1,3-Dichloropropene	ND	0.097	0.012	ND	0.0019	0.00024	ND	0.099	0.012	ND	0.0020	0.00024
4-Methyl-2-Pentanone	ND	0.097	0.013	ND	0.0019	0.00026	ND	0.099	0.013	ND	0.0020	0.00026
Toluene	6.1	0.097	0.0072	0.018	0.0019	0.00014	6.3	0.099	0.0073	0.016	0.0020	0.00015
t-1,3-Dichloropropene	ND	0.097	0.011	ND	0.0019	0.00021	ND	0.099	0.011	ND	0.0020	0.00022
1,1,2-Trichloroethane	ND	0.097	0.012	ND	0.0019	0.00023	ND	0.099	0.012	ND	0.0020	0.00024
1,3-Dichloropropane	ND	0.097	0.0048	ND	0.0019	0.000097	ND	0.099	0.0049	ND	0.0020	0.000098
Tetrachloroethene	ND	0.097	0.010	ND	0.0019	0.00021	ND	0.099	0.011	ND	0.0020	0.00021
2-Hexanone	ND	0.097	0.031	ND	0.0019	0.00062	ND	0.099	0.032	ND	0.0020	0.00063
Dibromochloromethane	ND	0.097	0.0065	ND	0.0019	0.00013	ND	0.099	0.0066	ND	0.0020	0.00013
1,2-Dibromoethane	ND	0.097	0.0093	ND	0.0019	0.00019	ND	0.099	0.0095	ND	0.0020	0.00019
Chlorobenzene	ND	0.097	0.0093	ND	0.0019	0.00019	ND	0.099	0.0095	ND	0.0020	0.00019
Ethylbenzene	0.58	0.097	0.0088	0.0016 J	0.0019	0.00018	0.58	0.099	0.0090	0.0016 J	0.0020	0.00018
p,&m-Xylene	3.0	0.097	0.017	0.010	0.0019	0.00034	3.1	0.099	0.018	0.0093	0.0020	0.00035
o-Xylene	1.0	0.097	0.015	0.0032	0.0019	0.00029	1.0	0.099	0.015	0.0029	0.0020	0.00030



Client: CH2M HILL
 Attn: Dan Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 08/18/15
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	G081801-05			G081801-06			G081801-07			G081801-08		
Client Sample I.D.:	VPOST3-08-17			VEFF3-08-17			VPOST4-08-17			VEFF4-08-17		
Date/Time Sampled:	8/17/15 13:41			8/17/15 13:40			8/17/15 14:11			8/17/15 14:09		
Date/Time Analyzed:	8/18/15 15:46			8/18/15 19:19			8/18/15 16:26			8/18/15 19:59		
QC Batch No.:	150818MS2A1			150818MS2A1			150818MS2A1			150818MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	97			1.9			99			2.0		
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv
Styrene	0.045 J	0.097	0.013	0.00046 J	0.0019	0.00025	0.041 J	0.099	0.013	0.00041 J	0.0020	0.00026
Bromoform	ND	0.097	0.011	ND	0.0019	0.00021	ND	0.099	0.011	ND	0.0020	0.00021
Isopropyl benzene	0.037 J	0.097	0.010	ND	0.0019	0.00021	0.027 J	0.099	0.011	ND	0.0020	0.00021
1,1,2,2-Tetrachloroethane	ND	0.19	0.0067	ND	0.0039	0.00013	ND	0.20	0.0068	ND	0.0040	0.00014
Benzyl Chloride	ND	0.097	0.0095	ND	0.0019	0.00019	ND	0.099	0.0097	ND	0.0020	0.00019
1,2,3-Trichloropropane	ND	0.097	0.012	ND	0.0019	0.00023	ND	0.099	0.012	ND	0.0020	0.00024
n-Propyl Benzene	0.051 J	0.097	0.0076	0.00040 J	0.0019	0.00015	0.046 J	0.099	0.0078	0.00036 J	0.0020	0.00016
4-Ethyl Toluene	0.32	0.097	0.0083	0.0028	0.0019	0.00017	0.33	0.099	0.0085	0.0026	0.0020	0.00017
1,3,5-Trimethylbenzene	0.11 J	0.19	0.0099	0.0016 J	0.0039	0.00020	0.12 J	0.20	0.010	0.0015 J	0.0040	0.00020
4-Chlorotoluene	ND	0.097	0.010	ND	0.0019	0.00020	ND	0.099	0.010	ND	0.0020	0.00021
tert-Butylbenzene	ND	0.097	0.0077	ND	0.0019	0.00015	ND	0.099	0.0078	ND	0.0020	0.00016
1,2,4-Trimethylbenzene	0.18 J	0.19	0.013	0.0056	0.0039	0.00027	0.18 J	0.20	0.014	0.0055	0.0040	0.00027
sec-Butylbenzene	ND	0.097	0.011	ND	0.0019	0.00021	ND	0.099	0.011	ND	0.0020	0.00022
p-Isopropyltoluene	0.065 J	0.097	0.0096	0.00056 J	0.0019	0.00019	ND	0.099	0.0098	0.00056 J	0.0020	0.00020
1,3-Dichlorobenzene	ND	0.097	0.0096	ND	0.0019	0.00019	ND	0.099	0.0097	ND	0.0020	0.00019
1,4-Dichlorobenzene	ND	0.097	0.0078	ND	0.0019	0.00016	ND	0.099	0.0080	ND	0.0020	0.00016
n-Butylbenzene	ND	0.097	0.010	0.00098 J	0.0019	0.00021	ND	0.099	0.011	ND	0.0020	0.00021
1,2-Dichlorobenzene	ND	0.097	0.011	ND	0.0019	0.00022	ND	0.099	0.011	ND	0.0020	0.00023
1,2,4-Trichlorobenzene	ND	0.19	0.028	ND	0.0039	0.00056	ND	0.20	0.029	ND	0.0040	0.00058
Hexachlorobutadiene	ND	0.097	0.013	ND	0.0019	0.00027	ND	0.099	0.014	ND	0.0020	0.00027
t-Butanol	ND	0.49	0.030	ND	0.0097	0.00060	ND	0.50	0.031	ND	0.0099	0.00061
n-Hexane	20	0.49	0.020	ND	0.0097	0.00039	19	0.50	0.020	ND	0.0099	0.00040
Isopropyl ether	ND	0.49	0.015	ND	0.0097	0.00030	ND	0.50	0.015	ND	0.0099	0.00030
t-Butyl ethyl ether	ND	0.49	0.020	ND	0.0097	0.00041	ND	0.50	0.021	ND	0.0099	0.00041
2,2-Dichloropropane	ND	0.49	0.017	ND	0.0097	0.00034	ND	0.50	0.017	ND	0.0099	0.00034
t-Amyl methyl ether	ND	0.49	0.0097	ND	0.0097	0.00019	ND	0.50	0.0099	ND	0.0099	0.00020
1,4-Dioxane	ND	0.49	0.015	ND	0.0097	0.00029	ND	0.50	0.015	ND	0.0099	0.00030
Naphthalene	ND	0.49	0.023	0.0017 J	0.0097	0.00046	ND	0.50	0.024	0.0032 J	0.0099	0.00047
1,2,3-Trichlorobenzene (TIC)		--			--			--			--	

ND = Not Detected (below RL)
 RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 8/20/15

The cover liner is an integral part of this analytical report



Client: CH2M HILL
 Attn: Dan Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 08/18/15
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	G081801-09																				
Client Sample I.D.:	VEFF5-08-17																				
Date/Time Sampled:	8/17/15 14:44																				
Date/Time Analyzed:	8/18/15 20:41																				
QC Batch No.:	150818MS2A1																				
Analyst Initials:	DT																				
Dilution Factor:	2.0																				
ANALYTE	Result ppmv	RL ppmv	MDL ppmv																		
Dichlorodifluoromethane (12)	ND	0.0020	0.00027																		
Chloromethane	ND	0.0040	0.00036																		
1,2-CI-1,1,2,2-F ethane (114)	ND	0.0020	0.000087																		
Vinyl Chloride	ND	0.0020	0.00026																		
Bromomethane	ND	0.0020	0.00063																		
Chloroethane	ND	0.0020	0.0017																		
Trichlorofluoromethane (11)	ND	0.0020	0.00025																		
1,1-Dichloroethene	ND	0.0020	0.00034																		
Carbon Disulfide	0.061	0.0099	0.00035																		
1,1,2-CI 1,2,2-F ethane (113)	ND	0.0020	0.00034																		
Acetone	0.024	0.0099	0.0011																		
Methylene Chloride	ND	0.0020	0.00036																		
t-1,2-Dichloroethene	ND	0.0020	0.00044																		
1,1-Dichloroethane	ND	0.0020	0.00030																		
c-1,2-Dichloroethene	ND	0.0020	0.00037																		
2-Butanone	0.019	0.0020	0.00049																		
t-Butyl Methyl Ether (MTBE)	ND	0.0020	0.00025																		
Chloroform	ND	0.0020	0.00026																		
1,1,1-Trichloroethane	ND	0.0020	0.00026																		
Carbon Tetrachloride	ND	0.0020	0.00019																		
Benzene	0.0012 J	0.0020	0.000091																		
1,2-Dichloroethane	ND	0.0020	0.00022																		
Trichloroethene	ND	0.0020	0.00021																		
1,2-Dichloropropane	ND	0.0020	0.00016																		
Bromodichloromethane	ND	0.0020	0.00013																		
c-1,3-Dichloropropene	ND	0.0020	0.00024																		
4-Methyl-2-Pentanone	ND	0.0020	0.00026																		
Toluene	0.033	0.0020	0.00015																		
t-1,3-Dichloropropene	ND	0.0020	0.00022																		
1,1,2-Trichloroethane	ND	0.0020	0.00024																		
1,3-Dichloropropane	ND	0.0020	0.000098																		
Tetrachloroethene	ND	0.0020	0.00021																		
2-Hexanone	ND	0.0020	0.00063																		
Dibromochloromethane	ND	0.0020	0.00013																		
1,2-Dibromoethane	ND	0.0020	0.00019																		
Chlorobenzene	ND	0.0020	0.00019																		
Ethylbenzene	0.0037	0.0020	0.00018																		
p,&m-Xylene	0.019	0.0020	0.00035																		
o-Xylene	0.0064	0.0020	0.00030																		



Client: CH2M HILL
 Attn: Dan Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 08/18/15
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	G081801-09																			
Client Sample I.D.:	VEFF5-08-17																			
Date/Time Sampled:	8/17/15 14:44																			
Date/Time Analyzed:	8/18/15 20:41																			
QC Batch No.:	150818MS2A1																			
Analyst Initials:	DT																			
Dilution Factor:	2.0																			
ANALYTE	Result ppmv	RL ppmv	MDL ppmv																	
Styrene	0.00099 J	0.0020	0.00026																	
Bromoform	ND	0.0020	0.00021																	
Isopropyl benzene	0.00065 J	0.0020	0.00021																	
1,1,2,2-Tetrachloroethane	ND	0.0040	0.00014																	
Benzyl Chloride	ND	0.0020	0.00019																	
1,2,3-Trichloropropane	ND	0.0020	0.00024																	
n-Propyl Benzene	0.00095 J	0.0020	0.00016																	
4-Ethyl Toluene	0.0053	0.0020	0.00017																	
1,3,5-Trimethylbenzene	0.0032 J	0.0040	0.00020																	
4-Chlorotoluene	ND	0.0020	0.00021																	
tert-Butylbenzene	0.0013 J	0.0020	0.00016																	
1,2,4-Trimethylbenzene	0.010	0.0040	0.00027																	
sec-Butylbenzene	0.00033 J	0.0020	0.00022																	
p-Isopropyltoluene	0.012	0.0020	0.00020																	
1,3-Dichlorobenzene	ND	0.0020	0.00019																	
1,4-Dichlorobenzene	0.00072 J	0.0020	0.00016																	
n-Butylbenzene	0.0015 J	0.0020	0.00021																	
1,2-Dichlorobenzene	ND	0.0020	0.00023																	
1,2,4-Trichlorobenzene	ND	0.0040	0.00058																	
Hexachlorobutadiene	ND	0.0020	0.00027																	
t-Butanol	0.0062 J	0.0099	0.00061																	
n-Hexane	ND	0.0099	0.00040																	
Isopropyl ether	ND	0.0099	0.00030																	
t-Butyl ethyl ether	ND	0.0099	0.00041																	
2,2-Dichloropropane	ND	0.0099	0.00034																	
t-Amyl methyl ether	ND	0.0099	0.00020																	
1,4-Dioxane	ND	0.0099	0.00030																	
Naphthalene	0.0035 J	0.0099	0.00047																	
1,2,3-Trichlorobenzene (TIC)		--																		

ND = Not Detected (below RL)
 RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 8/20/15

The cover letter is an integral part of this analytical report.



Client: CH2M HILL
 Attn: Dan Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 08/18/15
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	METHOD BLANK																		
Client Sample I.D.:	-																		
Date/Time Sampled:	-																		
Date/Time Analyzed:	8/18/15 10:38																		
QC Batch No.:	150818MS2A1																		
Analyst Initials:	DT																		
Dilution Factor:	0.20																		
ANALYTE	Result ppmv	RL ppmv	MDL ppmv																
Dichlorodifluoromethane (12)	ND	0.00020	0.000027																
Chloromethane	ND	0.00040	0.000036																
1,2-CI-1,1,2,2-F ethane (114)	ND	0.00020	0.0000088																
Vinyl Chloride	ND	0.00020	0.000026																
Bromomethane	ND	0.00020	0.000063																
Chloroethane	ND	0.00020	0.00017																
Trichlorofluoromethane (11)	ND	0.00020	0.000025																
1,1-Dichloroethene	ND	0.00020	0.000035																
Carbon Disulfide	0.00024 J	0.0010	0.000035																
1,1,2-CI 1,2,2-F ethane (113)	ND	0.00020	0.000034																
Acetone	ND	0.0010	0.00011																
Methylene Chloride	ND	0.00020	0.000036																
t-1,2-Dichloroethene	ND	0.00020	0.000044																
1,1-Dichloroethane	ND	0.00020	0.000030																
c-1,2-Dichloroethene	ND	0.00020	0.000037																
2-Butanone	ND	0.00020	0.000050																
t-Butyl Methyl Ether (MTBE)	ND	0.00020	0.000025																
Chloroform	ND	0.00020	0.000026																
1,1,1-Trichloroethane	ND	0.00020	0.000026																
Carbon Tetrachloride	ND	0.00020	0.000020																
Benzene	0.000032 J	0.00020	0.0000092																
1,2-Dichloroethane	ND	0.00020	0.000022																
Trichloroethene	ND	0.00020	0.000021																
1,2-Dichloropropane	ND	0.00020	0.000016																
Bromodichloromethane	ND	0.00020	0.000014																
c-1,3-Dichloropropene	ND	0.00020	0.000025																
4-Methyl-2-Pentanone	ND	0.00020	0.000027																
Toluene	0.000018 J	0.00020	0.000015																
t-1,3-Dichloropropene	ND	0.00020	0.000022																
1,1,2-Trichloroethane	ND	0.00020	0.000024																
1,3-Dichloropropane	ND	0.00020	0.0000099																
Tetrachloroethene	ND	0.00020	0.000021																
2-Hexanone	ND	0.00020	0.000064																
Dibromochloromethane	ND	0.00020	0.000013																
1,2-Dibromoethane	ND	0.00020	0.000019																
Chlorobenzene	ND	0.00020	0.000019																
Ethylbenzene	ND	0.00020	0.000018																
p,&m-Xylene	ND	0.00020	0.000035																
o-Xylene	ND	0.00020	0.000030																



Client: CH2M HILL
 Attn: Dan Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 08/18/15
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	METHOD BLANK													
Client Sample I.D.:	-													
Date/Time Sampled:	-													
Date/Time Analyzed:	8/18/15 10:38													
QC Batch No.:	150818MS2A1													
Analyst Initials:	DT													
Dilution Factor:	0.20													
ANALYTE	Result ppmv	RL ppmv	MDL ppmv											
Styrene	ND	0.00020	0.000026											
Bromoform	ND	0.00020	0.000022											
Isopropyl benzene	ND	0.00020	0.000021											
1,1,2,2-Tetrachloroethane	ND	0.00040	0.000014											
Benzyl Chloride	ND	0.00020	0.000019											
1,2,3-Trichloropropane	ND	0.00020	0.000024											
n-Propyl Benzene	ND	0.00020	0.000016											
4-Ethyl Toluene	ND	0.00020	0.000017											
1,3,5-Trimethylbenzene	ND	0.00040	0.000020											
4-Chlorotoluene	ND	0.00020	0.000021											
tert-Butylbenzene	ND	0.00020	0.000016											
1,2,4-Trimethylbenzene	ND	0.00040	0.000027											
sec-Butylbenzene	ND	0.00020	0.000022											
p-Isopropyltoluene	ND	0.00020	0.000020											
1,3-Dichlorobenzene	ND	0.00020	0.000020											
1,4-Dichlorobenzene	ND	0.00020	0.000016											
n-Butylbenzene	ND	0.00020	0.000021											
1,2-Dichlorobenzene	ND	0.00020	0.000023											
1,2,4-Trichlorobenzene	ND	0.00040	0.000058											
Hexachlorobutadiene	ND	0.00020	0.000028											
t-Butanol	ND	0.0010	0.000062											
n-Hexane	ND	0.0010	0.000041											
Isopropyl ether	ND	0.0010	0.000031											
t-Butyl ethyl ether	ND	0.0010	0.000042											
2,2-Dichloropropane	ND	0.0010	0.000035											
t-Amyl methyl ether	ND	0.0010	0.000020											
1,4-Dioxane	ND	0.0010	0.000030											
Naphthalene	ND	0.0010	0.000048											
1,2,3-Trichlorobenzene (TIC)		-												

ND = Not Detected (below RL)
 RL = Reporting Limit

Reviewed/Approved By: *Mary Johnson*
 Mary Johnson
 Operations Manager

Date: 8/20/15

The cover letter is an integral part of this analytical report



QC Batch #: 150818MS2A1

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD						
Date/Time Analyzed:	8/18/15 10:38		8/18/15 8:00	8/18/15 8:40							
Data File ID:	18AUG010.D		18AUG006.D	18AUG007.D							
Analyst Initials:	DT		DT	DT							
Dilution Factor:	0.2		1.0	1.0							
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Limits			Pass/ Fail
								Low %Rec	High %Rec	Max. RPD	
1,1-Dichloroethene	0.0	10.0	9.8	98	9.7	97	1.7	70	130	30	Pass
Methylene Chloride	0.0	10.0	10.0	100	9.9	99	0.5	70	130	30	Pass
Trichloroethene	0.0	10.0	10.4	104	10.2	102	1.6	70	130	30	Pass
Toluene	0.0	10.0	9.9	99	9.6	96	3.3	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	9.7	97	9.3	93	4.7	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____

Mark Johnson
Operations Manager

Date: _____

The cover letter is an integral part of this analytical report



Client: CH2M HILL
 Attn: Dan Jablonski

Client's Project: SFPP - Norwalk Site; NA
 Date Received: 8/18/2015
 Matrix: Air

TGNMOC by SCAQMD 25.1

Lab No.:	G081801-01			G081801-02			G081801-03			G081801-04			
Client Sample I.D.:	VPOST1-08-17			VEFF1-08-17			VPOST2-08-17			VEFF2-08-17			
Date/ Time Sampled:	8/17/2015 12:44			8/17/2015 12:38			8/17/2015 13:10			8/17/2015 13:08			
Date/ Time Analyzed:	8/20/2015 09:54			8/19/2015 05:39			8/20/2015 10:37			8/20/2015 06:23			
Analyst Initials:	AS			AS			AS			AS			
Data Files:	19aug074/075			19aug057/058			19aug077/078			19aug060/061			
QC Batch:	150819GC8A3			150819GC8A3			150819GC8A3			150819GC8A3			
Dilution Factor:	2.0			2.1			2.0			1.9			
ANALYTE	Units	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL
TGNMOC as Hexane	ppmv C	470	3.3	1.0	3.2 J	3.4	1.0	470	3.4	1.0	4.6	3.2	0.99
Methane	ppmv	160	20	2.3	9.0 J	21	2.3	200	20	2.3	15 J	19	2.2

ND = Not detected above method detection limit (MDL)
 PQL = Practical Quantitation Limit.
 TGNMOC = Total Gaseous Non-Methane Organic Carbon.
 J = Trace amount. Analyte concentration between MDL and RL.
 RL = Reporting Limit.

Reviewed/Approved By: _____

Mark J. Johnson
 Operations Manager

Date: _____

8/20/15

The cover letter is an integral part of this analytical report.



Client: CH2M HILL
 Attn: Dan Jablonski

Client's Project: SFPP - Norwalk Site; NA
 Date Received: 8/18/2015
 Matrix: Air

TGNMOC by SCAQMD 25.1

Lab No.:	G081801-05			G081801-06			G081801-07			G081801-08			
Client Sample LD.:	VPOST3-08-17			VEFF3-08-17			VPOST4-08-17			VEFF4-08-17			
Date Sampled:	8/17/2015 13:41			8/17/2015 13:40			8/17/2015 14:11			8/17/2015 14:09			
Date Analyzed:	8/20/2015 11:07			8/20/2015 07:06			8/20/2015 11:37			8/20/2015 07:36			
Analyst Initials:	AS			AS			AS			AS			
Data Files:	19aug079/080			19aug063/064			19aug081/082			19aug065/066			
QC Batch:	150819GC8A3			150819GC8A3			150819GC8A3			150819GC8A3			
Dilution Factor:	1.9			1.9			2.0			2.0			
ANALYTE	Units	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL
TGNMOC as Hexane	ppmv C	480	3.2	0.99	6.9	3.2	0.99	480	3.3	1.0	12	3.3	1.0
Methane	ppmv	200	19	2.2	98	19	2.2	82	20	2.3	120	20	2.3

ND = Not detected above method detection limit (MDL)
 PQL = Practical Quantitation Limit.
 TGNMOC = Total Gaseous Non-Methane Organic Carbon.
 J = Trace amount. Analyte concentration between MDL and RL.
 RL = Reporting Limit.

Reviewed/Approved By: _____

Mark J. Johnson
 Operations Manager

Date: _____

8/20/15

The cover letter is an integral part of this analytical report.



Client: CH2M HILL
Attn: Dan Jablonski

Client's Project: SFPP - Norwalk Site; NA
Date Received: 8/18/2015
Matrix: Air

TGNMOC by SCAQMD 25.1

Lab No.:	G081801-09													
Client Sample I.D.:	VEFFS-08-17													
Date Sampled:	8/17/2015 14:44													
Date Analyzed:	8/20/2015 09:24													
Analyst Initials:	AS													
Data Files:	19aug072/073													
QC Batch:	150819GC8A3													
Dilution Factor:	2.0													
ANALYTE	Units	Results	RL	MDL										
TGNMOC as Hexane	ppmv C	5.4	3.3	1.0										
Methane	ppmv	88	20	2.3										

ND = Not detected above method detection limit (MDL)
PQL = Practical Quantitation Limit.
TGNMOC = Total Gaseous Non-Methane Organic Carbon.
J = Trace amount. Analyte concentration between MDL and RL.
RL = Reporting Limit.

Reviewed/Approved By: _____

[Signature]
Mark J. Johnson
Operations Manager

Date: _____

8/20/15

The cover letter is an integral part of this analytical report.



QC Batch No.: 150819GC8A3
Matrix: Air
Units: ppmv

Page 14 of 14
G081801

QC for TGNMOC by SCAQMD 25.1

Lab No.:	Method Blank	LCS	LCSD						
Date Analyzed:	8/19/2015 19:53	8/19/2015 19:09	8/19/2015 19:24						
Analyst Initials:	AS	AS	AS						
Datafile:	19aug053	19aug050	19aug051						
Dilution Factor:	1.0	1.0	1.0						
ANALYTE	Results	RL	MDL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
TGNMOC as Hexane	2.0	2	0.5	123	70-130%	121	70-130%	1.2	<30
Methane	ND	10	1.1	101	70-130%	100	70-130%	0.7	<30

ND = Not Detected (Below MDL)

RL = Reporting Limit

MDL = Method Detection Limit

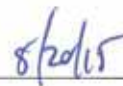
J = Trace amount below the RL and equal to or above the MDL

Reviewed/Approved By: _____

Mark J. Johnson
Operations Manager



Date: _____



The cover letter is an integral part of this analytical report.



September 3, 2015

CH2M HILL
ATTN: Dan Jablonski
6 Hutton Centre Dr., Suite 700
Santa Ana, CA 92707



ADE-1461
EPA Methods TO-3, TO14A, TO15 SIM & Scan, ASTM D1946



LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175

TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

UT Cert CA0133332014-1
EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: SFPP – Norwalk Site
Lab Number: G090104-01/06

Enclosed are results for sample(s) received 9/1/15 by Air Technology Laboratories. Samples were received intact. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

Preliminary results were e-mailed to Daniel Jablonski, Vidal Cortes and Steve Defibaugh on 9/03/15.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

Air Technology Laboratories, Inc.

18501 Gale Ave # 130
 City of Industry, CA 91748
 Tel: (626) 964-4032

Joann De La Ossa (JDeLaOssa@airtechlabs.com)

6090104-01/06

CHAIN OF CUSTODY RECORD

DATE: *9/1/15*

PAGE: 1 OF 1

LABORATORY CLIENT: CH2M HILL: Attn - Dan Jablonski							CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site				P.O. NO.:									
ADDRESS: 6 Hutton Centre Dr, Suite 700							PROJECT CONTACT: James Dye				QUOTE NO.:									
CITY: Santa Ana, CA 92707							SAMPLER(S): (SIGNATURE) <i>JAMES DYE</i>				LAB USE ONLY: <table border="1" style="width:100%; height: 20px;"> <tr> <td style="width: 15%;"> </td> <td style="width: 15%;"> </td> <td style="width: 15%;"> </td> <td style="width: 15%;"> </td> <td style="width: 15%;"> </td> <td style="width: 15%;"> </td> </tr> </table>									
TEL: 714-429-2020		FAX:		E-MAIL: Dan.Jablonski@CH2M.com		REQUESTED ANALYSIS														
TURNAROUND TIME <input type="checkbox"/> SAME DAY <input checked="" type="checkbox"/> 24 HR <input type="checkbox"/> 48HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL <u> / / </u> SPECIAL INSTRUCTIONS Report: Jablonski, Daniel/LAC - Daniel.Jablonski@CH2M.com, Cortes, Vidal/SCO - Vidal.Cortes@CH2M.com CC: KMEP Steve Defibaugh - Steve_Defibaugh@kindermorgan.com "J" flags required/Use lowest possible detection limit - all methods.																				
LAB-USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING				MAT-RIX	NO. OF CONT.	TO-15 (VOCs Target Analytes)	TO-3 (TPH-g)	TGNMOC as Hexane (EPA 25.1)	ASTM-D 1946 (O2/Argon, CO2, CH4, N2)			Comments					
	<i>-01</i> VEFF1-09-01	Outlet (stack)	9/1/2015	<i>11:14</i>	<i>-30</i>	<i>-5</i>	Air	1	X	X										
	<i>-02</i> VPOST1-09-01	Post-Dilution	9/1/2015	<i>11:14</i>	<i>-30</i>	<i>-5</i>	Air	1	X	X										
	<i>-03</i> VEFF2-09-01	Post-Dilution	9/1/2015	<i>11:48</i>	<i>-30</i>	<i>-5</i>	Air	1	X	X										
	<i>-04</i> VPOST2-09-01	Outlet (stack)	9/1/2015	<i>11:48</i>	<i>-30</i>	<i>-5</i>	Air	1	X	X										
	<i>-05</i> VEFF3-09-01	Post-Dilution	9/1/2015	<i>12:46</i>	<i>-30</i>	<i>-5</i>	Air	1	X	X						TAL includes historical VOCs				
	<i>-06</i> VPOST3-09-01	Outlet (stack)	9/1/2015	<i>12:44</i>	<i>-30</i>	<i>-5</i>	Air	1	X	X						and remaining ATLI List per subcontract.				
Relinquished by: (Signature) <i>v.cortez</i>								Received by: (Signature) <i>J Dye</i>				Date: <i>9/1/15</i>		Time: <i>1430</i>						
Relinquished by: (Signature)								Received by: (Signature)				Date:		Time:						
Relinquished by: (Signature)								Received by: (Signature)				Date:		Time:						

Client: CH2M HILL
 Attn: Dan Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 09/01/15
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	G090104-01			G090104-02			G090104-03			G090104-04		
Client Sample I.D.:	VEFF1-09-01			VPOST1-09-01			VEFF2-09-01			VPOST2-09-01		
Date/Time Sampled:	9/1/15 11:14			9/1/15 11:14			9/1/15 11:48			9/1/15 11:48		
Date/Time Analyzed:	9/2/15 18:37			9/2/15 13:35			9/2/15 19:16			9/2/15 15:03		
QC Batch No.:	150902MS2A1			150902MS2A1			150902MS2A1			150902MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.9			97			2.0			140		
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv
Dichlorodifluoromethane (12)	ND	0.0019	0.00030	ND	0.097	0.015	ND	0.0020	0.00031	ND	0.14	0.022
Chloromethane	0.0014 J	0.0039	0.00043	ND	0.19	0.021	ND	0.0040	0.00044	ND	0.29	0.032
1,2-CI-1,1,2,2-F ethane (114)	ND	0.0019	0.00039	ND	0.097	0.020	ND	0.0020	0.00041	ND	0.14	0.029
Vinyl Chloride	ND	0.0019	0.00032	ND	0.097	0.016	ND	0.0020	0.00033	ND	0.14	0.023
Bromomethane	0.0014 J	0.0019	0.00057	ND	0.097	0.028	0.00090 J	0.0020	0.00059	0.13 J	0.14	0.042
Chloroethane	ND	0.0019	0.0016	ND	0.097	0.082	ND	0.0020	0.0017	ND	0.14	0.12
Trichlorofluoromethane (11)	ND	0.0019	0.00042	ND	0.097	0.021	ND	0.0020	0.00044	ND	0.14	0.031
1,1-Dichloroethene	ND	0.0019	0.00044	ND	0.097	0.022	ND	0.0020	0.00046	ND	0.14	0.033
Carbon Disulfide	0.0019 J	0.0097	0.00047	ND	0.49	0.023	0.021	0.010	0.00048	ND	0.72	0.035
1,1,2-CI 1,2,2-F ethane (113)	ND	0.0019	0.00052	ND	0.097	0.026	ND	0.0020	0.00054	ND	0.14	0.039
Acetone	0.011	0.0097	0.00056	ND	0.49	0.028	0.015	0.010	0.00058	ND	0.72	0.042
Methylene Chloride	ND	0.0019	0.00055	ND	0.097	0.028	ND	0.0020	0.00058	ND	0.14	0.041
t-1,2-Dichloroethene	ND	0.0019	0.00058	ND	0.097	0.029	ND	0.0020	0.00060	ND	0.14	0.043
1,1-Dichloroethane	ND	0.0019	0.00026	ND	0.097	0.013	ND	0.0020	0.00028	ND	0.14	0.020
c-1,2-Dichloroethene	ND	0.0019	0.00038	ND	0.097	0.019	ND	0.0020	0.00039	ND	0.14	0.028
2-Butanone	0.0017 J	0.0019	0.0012	ND	0.097	0.060	0.0029	0.0020	0.0012	ND	0.14	0.089
t-Butyl Methyl Ether (MTBE)	ND	0.0019	0.00043	ND	0.097	0.022	ND	0.0020	0.00045	ND	0.14	0.032
Chloroform	ND	0.0019	0.00027	ND	0.097	0.014	ND	0.0020	0.00028	ND	0.14	0.020
1,1,1-Trichloroethane	ND	0.0019	0.00019	ND	0.097	0.0097	ND	0.0020	0.00020	ND	0.14	0.014
Carbon Tetrachloride	ND	0.0019	0.00034	ND	0.097	0.017	ND	0.0020	0.00035	ND	0.14	0.025
Benzene	0.00087 J	0.0019	0.00019	7.0	0.097	0.0093	0.0010 J	0.0020	0.00019	12	0.14	0.014
1,2-Dichloroethane	ND	0.0019	0.00014	ND	0.097	0.0072	ND	0.0020	0.00015	ND	0.14	0.011
Trichloroethene	ND	0.0019	0.00027	ND	0.097	0.014	ND	0.0020	0.00029	ND	0.14	0.020
1,2-Dichloropropane	ND	0.0019	0.00035	ND	0.097	0.018	ND	0.0020	0.00037	ND	0.14	0.026
Bromodichloromethane	ND	0.0019	0.00012	ND	0.097	0.0058	ND	0.0020	0.00012	ND	0.14	0.0087
c-1,3-Dichloropropene	ND	0.0019	0.00023	ND	0.097	0.012	ND	0.0020	0.00024	ND	0.14	0.017
4-Methyl-2-Pentanone	ND	0.0019	0.00013	ND	0.097	0.0065	ND	0.0020	0.00014	ND	0.14	0.0097
Toluene	0.00068 J	0.0019	0.00015	8.7	0.097	0.0077	0.00071 J	0.0020	0.00016	14	0.14	0.011
t-1,3-Dichloropropene	ND	0.0019	0.00020	ND	0.097	0.010	ND	0.0020	0.00021	ND	0.14	0.015
1,1,2-Trichloroethane	ND	0.0019	0.00031	ND	0.097	0.016	ND	0.0020	0.00033	ND	0.14	0.023
1,3-Dichloropropane	ND	0.0019	0.000097	ND	0.097	0.0048	ND	0.0020	0.00010	ND	0.14	0.0072
Tetrachloroethene	ND	0.0019	0.00023	0.020 J	0.097	0.012	ND	0.0020	0.00024	ND	0.14	0.017
2-Hexanone	ND	0.0019	0.00040	ND	0.097	0.020	ND	0.0020	0.00042	ND	0.14	0.030
Dibromochloromethane	ND	0.0019	0.00035	ND	0.097	0.018	ND	0.0020	0.00037	ND	0.14	0.026
1,2-Dibromoethane	ND	0.0019	0.00018	ND	0.097	0.0089	ND	0.0020	0.00018	ND	0.14	0.013
Chlorobenzene	ND	0.0019	0.00015	ND	0.097	0.0076	ND	0.0020	0.00016	ND	0.14	0.011
Ethylbenzene	ND	0.0019	0.00011	0.85	0.097	0.0056	ND	0.0020	0.00012	1.5	0.14	0.0083
p,&m-Xylene	0.00061 J	0.0019	0.00022	5.2	0.097	0.011	0.00065 J	0.0020	0.00023	8.4	0.14	0.016
o-Xylene	0.00025 J	0.0019	0.00024	1.7	0.097	0.012	0.00031 J	0.0020	0.00025	3.0	0.14	0.018



Client: CH2M HILL
 Attn: Dan Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 09/01/15
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	G090104-01			G090104-02			G090104-03			G090104-04		
Client Sample I.D.:	VEFF1-09-01			VPOST1-09-01			VEFF2-09-01			VPOST2-09-01		
Date/Time Sampled:	9/1/15 11:14			9/1/15 11:14			9/1/15 11:48			9/1/15 11:48		
Date/Time Analyzed:	9/2/15 18:37			9/2/15 13:35			9/2/15 19:16			9/2/15 15:03		
QC Batch No.:	150902MS2A1			150902MS2A1			150902MS2A1			150902MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.9			97			2.0			140		
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv
Styrene	ND	0.0019	0.00025	0.065 J	0.097	0.012	ND	0.0020	0.00026	0.12 J	0.14	0.019
Bromoform	ND	0.0019	0.00011	ND	0.097	0.0054	ND	0.0020	0.00011	ND	0.14	0.0080
Isopropyl benzene	ND	0.0019	0.00020	0.046 J	0.097	0.010	ND	0.0020	0.00021	0.077 J	0.14	0.015
1,1,2,2-Tetrachloroethane	ND	0.0039	0.00012	ND	0.19	0.0059	ND	0.0040	0.00012	ND	0.29	0.0088
Benzyl Chloride	ND	0.0019	0.00036	ND	0.097	0.018	ND	0.0020	0.00037	0.066 J	0.14	0.027
1,2,3-Trichloropropane	ND	0.0019	0.00052	ND	0.097	0.026	ND	0.0020	0.00054	ND	0.14	0.039
n-Propyl Benzene	ND	0.0019	0.00011	0.099	0.097	0.0057	ND	0.0020	0.00012	0.19	0.14	0.0084
4-Ethyl Toluene	0.00026 J	0.0019	0.00012	0.84	0.097	0.0061	0.00032 J	0.0020	0.00013	1.4	0.14	0.0091
1,3,5-Trimethylbenzene	ND	0.0039	0.00034	0.30	0.19	0.017	ND	0.0040	0.00035	0.53	0.29	0.025
4-Chlorotoluene	ND	0.0019	0.00023	ND	0.097	0.012	ND	0.0020	0.00024	ND	0.14	0.017
tert-Butylbenzene	ND	0.0019	0.00018	0.075 J	0.097	0.0088	ND	0.0020	0.00018	0.13 J	0.14	0.013
1,2,4-Trimethylbenzene	0.00051 J	0.0039	0.00022	0.59	0.19	0.011	0.00056 J	0.0040	0.00023	1.0	0.29	0.016
sec-Butylbenzene	ND	0.0019	0.00019	ND	0.097	0.0094	ND	0.0020	0.00020	0.017 J	0.14	0.014
p-Isopropyltoluene	ND	0.0019	0.00025	0.019 J	0.097	0.013	0.0010 J	0.0020	0.00026	ND	0.14	0.019
1,3-Dichlorobenzene	ND	0.0019	0.00024	ND	0.097	0.012	ND	0.0020	0.00025	ND	0.14	0.018
1,4-Dichlorobenzene	ND	0.0019	0.00028	ND	0.097	0.014	ND	0.0020	0.00030	ND	0.14	0.021
n-Butylbenzene	ND	0.0019	0.00014	ND	0.097	0.0071	ND	0.0020	0.00015	ND	0.14	0.011
1,2-Dichlorobenzene	ND	0.0019	0.00024	ND	0.097	0.012	ND	0.0020	0.00025	ND	0.14	0.018
1,2,4-Trichlorobenzene	ND	0.0039	0.00032	ND	0.19	0.016	ND	0.0040	0.00033	ND	0.29	0.024
Hexachlorobutadiene	ND	0.0019	0.00011	ND	0.097	0.0057	ND	0.0020	0.00012	ND	0.14	0.0085
t-Butanol	ND	0.0097	0.00037	ND	0.49	0.019	ND	0.010	0.00039	ND	0.72	0.028
n-Hexane	0.00056 J	0.0097	0.00026	27 d	0.49	0.013	0.00047 J	0.010	0.00027	65 d	0.72	0.019
Isopropyl ether	ND	0.0097	0.00022	ND	0.49	0.011	ND	0.010	0.00022	ND	0.72	0.016
t-Butyl ethyl ether	ND	0.0097	0.00039	ND	0.49	0.019	ND	0.010	0.00040	ND	0.72	0.029
2,2-Dichloropropane	ND	0.0097	0.00018	ND	0.49	0.0092	ND	0.010	0.00019	ND	0.72	0.014
t-Amyl methyl ether	ND	0.0097	0.00014	ND	0.49	0.0069	ND	0.010	0.00014	ND	0.72	0.010
1,4-Dioxane	ND	0.0097	0.00034	ND	0.49	0.017	ND	0.010	0.00035	ND	0.72	0.025
Naphthalene	ND	0.0097	0.00075	ND	0.49	0.037	ND	0.010	0.00078	ND	0.72	0.055
1,2,3-Trichlorobenzene (TIC)	ND	--	--	ND	--	--	ND	--	--	ND	--	--

MDL = Method Detection Limit
 ND= Not Detected (below MDL)
 RL = Reporting Limit
 J = Trace amount. Analyte concentration between RL and MDL.
 d = Analyte reported from a secondary dilution.

Reviewed/Approved By: Mark Johnson
 Operations Manager

Date: 9/3/15

The cover letter is an integral part of this analytical report



Client: CH2M HILL
 Attn: Dan Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 09/01/15
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	G090104-05			G090104-06						
Client Sample I.D.:	VEFF3-09-01			POST3-09-01						
Date/Time Sampled:	9/1/15 12:46			9/1/15 12:46						
Date/Time Analyzed:	9/2/15 19:56			9/2/15 15:42						
QC Batch No.:	150902MS2A1			150902MS2A1						
Analyst Initials:	DT			DT						
Dilution Factor:	2.0			140						
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv				
Dichlorodifluoromethane (12)	ND	0.0020	0.00031	ND	0.14	0.022				
Chloromethane	0.0017 J	0.0040	0.00044	ND	0.29	0.032				
1,2-CI-1,1,2,2-F ethane (114)	ND	0.0020	0.00041	ND	0.14	0.029				
Vinyl Chloride	ND	0.0020	0.00033	ND	0.14	0.023				
Bromomethane	0.0011 J	0.0020	0.00059	0.093 J	0.14	0.042				
Chloroethane	ND	0.0020	0.0017	ND	0.14	0.12				
Trichlorofluoromethane (11)	ND	0.0020	0.00044	ND	0.14	0.031				
1,1-Dichloroethene	ND	0.0020	0.00046	ND	0.14	0.033				
Carbon Disulfide	0.0097 J	0.010	0.00048	ND	0.72	0.035				
1,1,2-CI 1,2,2-F ethane (113)	ND	0.0020	0.00054	ND	0.14	0.039				
Acetone	0.017	0.010	0.00058	0.95	0.72	0.042				
Methylene Chloride	ND	0.0020	0.00058	ND	0.14	0.041				
t-1,2-Dichloroethene	ND	0.0020	0.00060	ND	0.14	0.043				
1,1-Dichloroethane	ND	0.0020	0.00028	ND	0.14	0.020				
c-1,2-Dichloroethene	ND	0.0020	0.00039	ND	0.14	0.028				
2-Butanone	0.0058	0.0020	0.0012	ND	0.14	0.089				
t-Butyl Methyl Ether (MTBE)	ND	0.0020	0.00045	ND	0.14	0.032				
Chloroform	ND	0.0020	0.00028	ND	0.14	0.020				
1,1,1-Trichloroethane	ND	0.0020	0.00020	ND	0.14	0.014				
Carbon Tetrachloride	ND	0.0020	0.00035	ND	0.14	0.025				
Benzene	0.0017 J	0.0020	0.00019	12	0.14	0.014				
1,2-Dichloroethane	ND	0.0020	0.00015	ND	0.14	0.011				
Trichloroethene	ND	0.0020	0.00029	ND	0.14	0.020				
1,2-Dichloropropane	ND	0.0020	0.00037	ND	0.14	0.026				
Bromodichloromethane	ND	0.0020	0.00012	ND	0.14	0.0087				
c-1,3-Dichloropropene	ND	0.0020	0.00024	ND	0.14	0.017				
4-Methyl-2-Pentanone	ND	0.0020	0.00014	ND	0.14	0.0097				
Toluene	0.0011 J	0.0020	0.00016	20	0.14	0.011				
t-1,3-Dichloropropene	ND	0.0020	0.00021	ND	0.14	0.015				
1,1,2-Trichloroethane	ND	0.0020	0.00033	ND	0.14	0.023				
1,3-Dichloropropane	ND	0.0020	0.00010	ND	0.14	0.0072				
Tetrachloroethene	ND	0.0020	0.00024	0.023 J	0.14	0.017				
2-Hexanone	ND	0.0020	0.00042	ND	0.14	0.030				
Dibromochloromethane	ND	0.0020	0.00037	ND	0.14	0.026				
1,2-Dibromoethane	ND	0.0020	0.00018	ND	0.14	0.013				
Chlorobenzene	ND	0.0020	0.00016	ND	0.14	0.011				
Ethylbenzene	0.00052 J	0.0020	0.00012	2.3	0.14	0.0083				
p,&m-Xylene	0.0013 J	0.0020	0.00023	11	0.14	0.016				
o-Xylene	0.0011 J	0.0020	0.00025	3.3	0.14	0.018				



Client: CH2M HILL
 Attn: Dan Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 09/01/15
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	G090104-05			G090104-06									
Client Sample I.D.:	VEFF3-09-01			POST3-09-01									
Date/Time Sampled:	9/1/15 12:46			9/1/15 12:46									
Date/Time Analyzed:	9/2/15 19:56			9/2/15 15:42									
QC Batch No.:	150902MS2A1			150902MS2A1									
Analyst Initials:	DT			DT									
Dilution Factor:	2.0			140									
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv							
Styrene	ND	0.0020	0.00026	0.13 J	0.14	0.019							
Bromoform	ND	0.0020	0.00011	ND	0.14	0.0080							
Isopropyl benzene	ND	0.0020	0.00021	0.12 J	0.14	0.015							
1,1,2,2-Tetrachloroethane	ND	0.0040	0.00012	ND	0.29	0.0088							
Benzyl Chloride	ND	0.0020	0.00037	ND	0.14	0.027							
1,2,3-Trichloropropane	ND	0.0020	0.00054	ND	0.14	0.039							
n-Propyl Benzene	ND	0.0020	0.00012	0.26	0.14	0.0084							
4-Ethyl Toluene	0.00089 J	0.0020	0.00013	1.6	0.14	0.0091							
1,3,5-Trimethylbenzene	0.00037 J	0.0040	0.00035	0.56	0.29	0.025							
4-Chlorotoluene	ND	0.0020	0.00024	ND	0.14	0.017							
tert-Butylbenzene	ND	0.0020	0.00018	0.15	0.14	0.013							
1,2,4-Trimethylbenzene	0.0014 J	0.0040	0.00023	1.1	0.29	0.016							
sec-Butylbenzene	ND	0.0020	0.00020	0.023 J	0.14	0.014							
p-Isopropyltoluene	0.0048	0.0020	0.00026	0.021 J	0.14	0.019							
1,3-Dichlorobenzene	ND	0.0020	0.00025	ND	0.14	0.018							
1,4-Dichlorobenzene	ND	0.0020	0.00030	ND	0.14	0.021							
n-Butylbenzene	ND	0.0020	0.00015	0.062 J	0.14	0.011							
1,2-Dichlorobenzene	ND	0.0020	0.00025	ND	0.14	0.018							
1,2,4-Trichlorobenzene	ND	0.0040	0.00033	ND	0.29	0.024							
Hexachlorobutadiene	ND	0.0020	0.00012	ND	0.14	0.0085							
t-Butanol	ND	0.010	0.00039	ND	0.72	0.028							
n-Hexane	0.00059 J	0.010	0.00027	48 d	0.72	0.019							
Isopropyl ether	ND	0.010	0.00022	ND	0.72	0.016							
t-Butyl ethyl ether	ND	0.010	0.00040	ND	0.72	0.029							
2,2-Dichloropropane	ND	0.010	0.00019	ND	0.72	0.014							
t-Amyl methyl ether	ND	0.010	0.00014	ND	0.72	0.010							
1,4-Dioxane	ND	0.010	0.00035	ND	0.72	0.025							
Naphthalene	ND	0.010	0.00078	ND	0.72	0.055							
1,2,3-Trichlorobenzene (TIC)	ND	--	--	ND	--	--							

MDL = Method Detection Limit
 ND= Not Detected (below MDL)
 RL = Reporting Limit
 J = Trace amount. Analyte concentration between RL and MDL.
 d = Analyte reported from a secondary dilution. Batch ID: 150902MS2A2

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 9/3/15

The cover letter is an integral part of this analytical report



Client: CH2M HILL
 Attn: Dan Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 09/01/15
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	METHOD BLANK			METHOD BLANK										
Client Sample I.D.:	--			--										
Date/Time Sampled:	--			--										
Date/Time Analyzed:	9/2/15 12:55			9/3/15 9:49										
QC Batch No.:	150902MS2A1			150902MS2A2										
Analyst Initials:	DT			DT										
Dilution Factor:	0.20			0.20										
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv								
Dichlorodifluoromethane (12)	ND	0.00020	0.000031	ND	0.00020	0.000031								
Chloromethane	ND	0.00040	0.000044	ND	0.00040	0.000044								
1,2-CI-1,1,2,2-F ethane (114)	ND	0.00020	0.000040	ND	0.00020	0.000040								
Vinyl Chloride	ND	0.00020	0.000032	ND	0.00020	0.000032								
Bromomethane	ND	0.00020	0.000059	0.00013 J	0.00020	0.000059								
Chloroethane	ND	0.00020	0.00017	ND	0.00020	0.00017								
Trichlorofluoromethane (11)	ND	0.00020	0.000043	ND	0.00020	0.000043								
1,1-Dichloroethene	ND	0.00020	0.000045	ND	0.00020	0.000045								
Carbon Disulfide	ND	0.0010	0.000048	0.00013 J	0.0010	0.000048								
1,1,2-CI 1,2,2-F ethane (113)	ND	0.00020	0.000054	ND	0.00020	0.000054								
Acetone	ND	0.0010	0.000058	0.00010 J	0.0010	0.000058								
Methylene Chloride	ND	0.00020	0.000057	ND	0.00020	0.000057								
t-1,2-Dichloroethene	ND	0.00020	0.000060	ND	0.00020	0.000060								
1,1-Dichloroethane	ND	0.00020	0.000027	ND	0.00020	0.000027								
c-1,2-Dichloroethene	ND	0.00020	0.000039	ND	0.00020	0.000039								
2-Butanone	ND	0.00020	0.00012	ND	0.00020	0.00012								
t-Butyl Methyl Ether (MTBE)	ND	0.00020	0.000045	ND	0.00020	0.000045								
Chloroform	ND	0.00020	0.000028	ND	0.00020	0.000028								
1,1,1-Trichloroethane	ND	0.00020	0.000020	ND	0.00020	0.000020								
Carbon Tetrachloride	ND	0.00020	0.000035	ND	0.00020	0.000035								
Benzene	0.000053 J	0.00020	0.000019	0.000053 J	0.00020	0.000019								
1,2-Dichloroethane	ND	0.00020	0.000015	ND	0.00020	0.000015								
Trichloroethene	ND	0.00020	0.000028	ND	0.00020	0.000028								
1,2-Dichloropropane	ND	0.00020	0.000036	ND	0.00020	0.000036								
Bromodichloromethane	ND	0.00020	0.000012	ND	0.00020	0.000012								
c-1,3-Dichloropropene	ND	0.00020	0.000024	ND	0.00020	0.000024								
4-Methyl-2-Pentanone	ND	0.00020	0.000013	ND	0.00020	0.000013								
Toluene	0.000038 J	0.00020	0.000016	0.000038 J	0.00020	0.000016								
t-1,3-Dichloropropene	ND	0.00020	0.000021	ND	0.00020	0.000021								
1,1,2-Trichloroethane	ND	0.00020	0.000032	ND	0.00020	0.000032								
1,3-Dichloropropane	ND	0.00020	0.0000099	ND	0.00020	0.0000099								
Tetrachloroethene	ND	0.00020	0.000024	ND	0.00020	0.000024								
2-Hexanone	ND	0.00020	0.000041	ND	0.00020	0.000041								
Dibromochloromethane	ND	0.00020	0.000036	ND	0.00020	0.000036								
1,2-Dibromoethane	ND	0.00020	0.000018	ND	0.00020	0.000018								
Chlorobenzene	ND	0.00020	0.000016	ND	0.00020	0.000016								
Ethylbenzene	ND	0.00020	0.000011	ND	0.00020	0.000011								
p,&m-Xylene	ND	0.00020	0.000023	ND	0.00020	0.000023								
o-Xylene	ND	0.00020	0.000024	ND	0.00020	0.000024								



Client: CH2M HILL
 Attn: Dan Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 09/01/15
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

Lab No.:	METHOD BLANK			METHOD BLANK										
Client Sample I.D.:	--			--										
Date/Time Sampled:	--			--										
Date/Time Analyzed:	9/2/15 12:55			9/3/15 9:49										
QC Batch No.:	150902MS2A1			150902MS2A2										
Analyst Initials:	DT			DT										
Dilution Factor:	0.20			0.20										
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv								
Styrene	ND	0.00020	0.000026	ND	0.00020	0.000026								
Bromoform	ND	0.00020	0.000011	ND	0.00020	0.000011								
Isopropyl benzene	ND	0.00020	0.000021	ND	0.00020	0.000021								
1,1,2,2-Tetrachloroethane	ND	0.00040	0.000012	ND	0.00040	0.000012								
Benzyl Chloride	ND	0.00020	0.000037	ND	0.00020	0.000037								
1,2,3-Trichloropropane	ND	0.00020	0.000054	ND	0.00020	0.000054								
n-Propyl Benzene	ND	0.00020	0.000012	ND	0.00020	0.000012								
4-Ethyl Toluene	ND	0.00020	0.000013	ND	0.00020	0.000013								
1,3,5-Trimethylbenzene	ND	0.00040	0.000035	ND	0.00040	0.000035								
4-Chlorotoluene	ND	0.00020	0.000024	ND	0.00020	0.000024								
tert-Butylbenzene	ND	0.00020	0.000018	ND	0.00020	0.000018								
1,2,4-Trimethylbenzene	ND	0.00040	0.000023	ND	0.00040	0.000023								
sec-Butylbenzene	ND	0.00020	0.000019	ND	0.00020	0.000019								
p-Isopropyltoluene	0.000054 J	0.00020	0.000026	0.000054 J	0.00020	0.000026								
1,3-Dichlorobenzene	ND	0.00020	0.000024	ND	0.00020	0.000024								
1,4-Dichlorobenzene	ND	0.00020	0.000029	ND	0.00020	0.000029								
n-Butylbenzene	ND	0.00020	0.000015	ND	0.00020	0.000015								
1,2-Dichlorobenzene	ND	0.00020	0.000025	ND	0.00020	0.000025								
1,2,4-Trichlorobenzene	ND	0.00040	0.000033	ND	0.00040	0.000033								
Hexachlorobutadiene	ND	0.00020	0.000012	ND	0.00020	0.000012								
t-Butanol	ND	0.0010	0.000038	ND	0.0010	0.000038								
n-Hexane	ND	0.0010	0.000027	ND	0.0010	0.000027								
Isopropyl ether	ND	0.0010	0.000022	ND	0.0010	0.000022								
t-Butyl ethyl ether	ND	0.0010	0.000040	ND	0.0010	0.000040								
2,2-Dichloropropane	ND	0.0010	0.000019	ND	0.0010	0.000019								
t-Amyl methyl ether	ND	0.0010	0.000014	ND	0.0010	0.000014								
1,4-Dioxane	ND	0.0010	0.000035	ND	0.0010	0.000035								
Naphthalene	ND	0.0010	0.000077	ND	0.0010	0.000077								
1,2,3-Trichlorobenzene (TIC)	ND	--	--	ND	--	--								

MDL = Method Detection Limit
 ND= Not Detected (below MDL)
 RL = Reporting Limit
 J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: Mark Johnson
 Operations Manager

Date 9/3/15

The cover letter is an integral part of this analytical report



QC Batch #: 150902MS2A2

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD							
			Date/Time Analyzed:	9/3/15 9:49	9/2/15 23:34	9/3/15 8:08						
Data File ID:	02SEP031.D		02SEP029.D		02SEP030.D							
Analyst Initials:	DT		DT		DT							
Dilution Factor:	0.2		1.0		1.0							
ANALYTE		Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Limits			Pass/Fail
									Low %Rec	High %Rec	Max. RPD	
1,1-Dichloroethene		0.0	10.0	9.5	95	9.9	99	4.0	70	130	30	Pass
Methylene Chloride		0.0	10.0	10.0	100	9.9	99	0.5	70	130	30	Pass
Trichloroethene		0.0	10.0	10.3	103	10.2	102	0.7	70	130	30	Pass
Toluene		0.0	10.0	9.6	96	9.0	90	6.8	70	130	30	Pass
1,1,2,2-Tetrachloroethane		0.0	10.0	9.3	93	9.7	97	3.9	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____

Mark Johnson
Operations Manager

Date: 9/3/15

The cover letter is an integral part of this analytical report




QC Batch #: 150902MS2A1

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD						
Date/Time Analyzed:	9/2/15 12:55		9/2/15 4:57		9/2/15 5:37						
Data File ID:	02SEP016.D		02SEP005.D		02SEP006.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0		Limits				
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/Fail
1,1-Dichloroethene	0.0	10.0	10.0	100	9.7	97	2.7	70	130	30	Pass
Methylene Chloride	0.0	10.0	10.7	107	9.8	98	8.4	70	130	30	Pass
Trichloroethene	0.0	10.0	9.9	99	10.0	100	1.5	70	130	30	Pass
Toluene	0.0	10.0	9.9	99	9.7	97	2.0	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	9.0	90	9.2	92	2.8	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson 
 Mark Johnson
 Operations Manager

Date: 9/3/15

The cover letter is an integral part of this analytical report



Client: CH2M HILL
 Attn: Dan Jablonski

Client's Project: SFPP - Norwalk Site; NA
 Date Received: 9/1/2015
 Matrix: Air

TGNMOC by SCAQMD 25.1

Lab No.:	G090104-01			G090104-02			G090104-03			G090104-04			
Client Sample I.D.:	VEFF1-09-01			VPOST1-09-01			VEFF2-09-01			VPOST2-09-01			
Date/ Time Sampled:	9/1/2015 11:14			9/1/2015 11:14			9/1/2015 11:48			9/1/2015 11:48			
Date/ Time Analyzed:	9/2/2015 10:42			9/2/2015 12:48			9/2/2015 11:32			9/2/2015 13:21			
Analyst Initials:	AS			AS			AS			AS			
Data Files:	02sep006/007			02sep014/015			02sep009/010			02sep016/017			
QC Batch:	150902GC8A2			150902GC8A2			150902GC8A2			150902GC8A2			
Dilution Factor:	1.9			1.9			2.0			2.0			
ANALYTE	Units	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL
TGNMOC as Hexane	ppmv C	ND	3.2	0.99	670	3.2	0.99	ND	3.4	1.0	930	3.4	1.0
Methane	ppmv	ND	19	2.2	220	19	2.2	ND	20	2.3	290	20	2.3

ND = Not detected above method detection limit (MDL)
 PQL = Practical Quantitation Limit
 TGNMOC = Total Gaseous Non-Methane Organic Carbon.
 J = Trace amount. Analyte concentration between MDL and RL.
 RL = Reporting Limit.

Reviewed/Approved By:

[Signature]
 Mark J. Johnson
 Operations Manager

Date:

9/3/15

The cover letter is an integral part of this analytical report.



Client: CH2M HILL
 Attn: Dan Jablonski

Client's Project: SFPP - Norwalk Site; NA
 Date Received: 9/1/2015
 Matrix: Air

TGNMOC by SCAQMD 25.1

Lab No.:		G090104-05			G090104-06						
Client Sample I.D.:		VEFF3-09-01			POST3-09-01						
Date Sampled:		9/1/2015 12:46			9/1/2015 12:46						
Date Analyzed:		9/2/2015 12:18			9/2/2015 13:50						
Analyst Initials:		AS			AS						
Data Files:		02sep012/013			02sep018/019						
QC Batch:		150902GC8A2			150902GC8A2						
Dilution Factor:		2.0			2.0						
ANALYTE	Units	Results	RL	MDL	Results	RL	MDL				
TGNMOC as Hexane	ppmv C	ND	3.4	1.0	890	3.4	1.0				
Methane	ppmv	ND	20	2.3	200	20	2.3				

ND = Not detected above method detection limit (MDL)
 PQL = Practical Quantitation Limit.
 TGNMOC = Total Gaseous Non-Methane Organic Carbon.
 J = Trace amount. Analyte concentration between MDL and RL.
 RL = Reporting Limit.

Reviewed/Approved By: _____

Mark J. Johnson
 Mark J. Johnson
 Operations Manager

Date: _____

9/3/15

The cover letter is an integral part of this analytical report.



QC Batch No.: 150902GC8A2
Matrix: Air
Units: ppmv

QC for TGNMOC by SCAQMD 25.1

Lab No.:	Method Blank			LCS		LCSD			
Date Analyzed:	9/2/2015 10:11			9/2/2015 09:41		9/2/2015 09:56			
Analyst Initials:	AS			AS		AS			
Datafile:	02sep004			02sep002		02sep003			
Dilution Factor:	1.0			1.0		1.0			
ANALYTE	Results	RL	MDL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
TGNMOC as Hexane	ND	2	0.5	97	70-130%	101	70-130%	3.5	<30
Methane	ND	10	1.1	97	70-130%	98	70-130%	1.1	<30

ND = Not Detected (Below MDL)

RL = Reporting Limit

MDL = Method Detection Limit

J = Trace amount below the RL and equal to or above the MDL

Reviewed/Approved By: Mark J. Johnson  Date: 9/3/15
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report.

August 07, 2015

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

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

TEL:

FAX:

Workorder No.: N016471

RE: SFPP - Norwalk Site

Attention: Dan Jablonski

Enclosed are the results for sample(s) received on July 31, 2015 by ASSET Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,



Glen Gesmundo
QA Manager

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



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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Project: SFPP - Norwalk Site
Lab Order: N016471

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Sample was received intact with proper chain of custody documentation.

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

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

Sample was analyzed within method holding time.



CLIENT: CH2MHill
Project: SFPP - Norwalk Site
Lab Order: N016471
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N016471-001A	INF-07-30	Wastewater	7/30/2015 9:45:00 AM	7/31/2015	8/7/2015
N016471-001B	INF-07-30	Wastewater	7/30/2015 9:45:00 AM	7/31/2015	8/7/2015



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 07-Aug-15

CLIENT: CH2MHill
Lab Order: N016471
Project: SFPP - Norwalk Site
Lab ID: N016471-001

Client Sample ID: INF-07-30
Collection Date: 7/30/2015 9:45:00 AM
Matrix: WASTEWATER

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

EPA 8260B

RunID: MS5_150804A	QC Batch: P15VW128	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.13	2.0	ug/L	2	8/4/2015 01:25 PM
1,1,1-Trichloroethane	ND	0.14	2.0	ug/L	2	8/4/2015 01:25 PM
1,1,2,2-Tetrachloroethane	ND	0.062	2.0	ug/L	2	8/4/2015 01:25 PM
1,1,2-Trichloroethane	ND	0.12	2.0	ug/L	2	8/4/2015 01:25 PM
1,1-Dichloroethane	ND	0.044	1.0	ug/L	2	8/4/2015 01:25 PM
1,1-Dichloroethene	ND	0.17	2.0	ug/L	2	8/4/2015 01:25 PM
1,1-Dichloropropene	ND	0.088	2.0	ug/L	2	8/4/2015 01:25 PM
1,2,3-Trichlorobenzene	ND	0.11	2.0	ug/L	2	8/4/2015 01:25 PM
1,2,3-Trichloropropane	ND	0.12	2.0	ug/L	2	8/4/2015 01:25 PM
1,2,4-Trichlorobenzene	ND	0.12	2.0	ug/L	2	8/4/2015 01:25 PM
1,2,4-Trimethylbenzene	1200	4.2	100	ug/L	100	8/4/2015 12:36 PM
1,2-Dibromo-3-chloropropane	ND	0.094	4.0	ug/L	2	8/4/2015 01:25 PM
1,2-Dibromoethane	ND	0.11	2.0	ug/L	2	8/4/2015 01:25 PM
1,2-Dichlorobenzene	ND	0.080	2.0	ug/L	2	8/4/2015 01:25 PM
1,2-Dichloroethane	ND	0.13	1.0	ug/L	2	8/4/2015 01:25 PM
1,2-Dichloropropane	ND	0.12	2.0	ug/L	2	8/4/2015 01:25 PM
1,3,5-Trimethylbenzene	330	0.15	10	ug/L	10	8/4/2015 01:00 PM
1,3-Dichlorobenzene	ND	0.11	2.0	ug/L	2	8/4/2015 01:25 PM
1,3-Dichloropropane	ND	0.080	2.0	ug/L	2	8/4/2015 01:25 PM
1,4-Dichlorobenzene	ND	0.060	2.0	ug/L	2	8/4/2015 01:25 PM
2,2-Dichloropropane	ND	0.052	2.0	ug/L	2	8/4/2015 01:25 PM
2-Butanone	ND	0.97	20	ug/L	2	8/4/2015 01:25 PM
2-Chlorotoluene	ND	0.080	2.0	ug/L	2	8/4/2015 01:25 PM
4-Chlorotoluene	ND	0.072	2.0	ug/L	2	8/4/2015 01:25 PM
4-Isopropyltoluene	5.2	0.044	2.0	ug/L	2	8/4/2015 01:25 PM
4-Methyl-2-pentanone	ND	0.34	20	ug/L	2	8/4/2015 01:25 PM
Acetone	ND	2.1	20	ug/L	2	8/4/2015 01:25 PM
Benzene	3100	3.6	100	ug/L	100	8/4/2015 12:36 PM
Bromobenzene	ND	0.086	2.0	ug/L	2	8/4/2015 01:25 PM
Bromochloromethane	ND	0.44	2.0	ug/L	2	8/4/2015 01:25 PM
Bromodichloromethane	ND	0.062	2.0	ug/L	2	8/4/2015 01:25 PM
Bromoform	ND	0.65	2.0	ug/L	2	8/4/2015 01:25 PM
Bromomethane	ND	0.65	2.0	ug/L	2	8/4/2015 01:25 PM
Carbon disulfide	ND	0.050	2.0	ug/L	2	8/4/2015 01:25 PM
Carbon tetrachloride	ND	0.11	1.0	ug/L	2	8/4/2015 01:25 PM
Chlorobenzene	ND	0.072	2.0	ug/L	2	8/4/2015 01:25 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded 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: 07-Aug-15

CLIENT: CH2MHill
Lab Order: N016471
Project: SFPP - Norwalk Site
Lab ID: N016471-001

Client Sample ID: INF-07-30
Collection Date: 7/30/2015 9:45:00 AM
Matrix: WASTEWATER

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

EPA 8260B

RunID: MS5_150804A	QC Batch: P15VW128	PrepDate:	Analyst: QBM			
Chloroethane	ND	0.20	2.0	ug/L	2	8/4/2015 01:25 PM
Chloroform	ND	0.072	2.0	ug/L	2	8/4/2015 01:25 PM
Chloromethane	ND	0.23	2.0	ug/L	2	8/4/2015 01:25 PM
cis-1,2-Dichloroethene	ND	0.10	2.0	ug/L	2	8/4/2015 01:25 PM
cis-1,3-Dichloropropene	ND	0.088	2.0	ug/L	2	8/4/2015 01:25 PM
Di-isopropyl ether	27	0.034	2.0	ug/L	2	8/4/2015 01:25 PM
Dibromochloromethane	ND	0.14	2.0	ug/L	2	8/4/2015 01:25 PM
Dibromomethane	ND	0.34	2.0	ug/L	2	8/4/2015 01:25 PM
Dichlorodifluoromethane	ND	0.14	2.0	ug/L	2	8/4/2015 01:25 PM
Ethyl tert-butyl ether	ND	0.078	2.0	ug/L	2	8/4/2015 01:25 PM
Ethylbenzene	720	0.36	10	ug/L	10	8/4/2015 01:00 PM
Freon-113	ND	0.15	2.0	ug/L	2	8/4/2015 01:25 PM
Hexachlorobutadiene	ND	0.21	2.0	ug/L	2	8/4/2015 01:25 PM
Isopropylbenzene	34	0.068	2.0	ug/L	2	8/4/2015 01:25 PM
m,p-Xylene	4400	2.4	100	ug/L	100	8/4/2015 12:36 PM
Methylene chloride	ND	0.56	4.0	ug/L	2	8/4/2015 01:25 PM
MTBE	820	0.62	10	ug/L	10	8/4/2015 01:00 PM
n-Butylbenzene	16	0.062	2.0	ug/L	2	8/4/2015 01:25 PM
n-Propylbenzene	100	0.036	2.0	ug/L	2	8/4/2015 01:25 PM
Naphthalene	420	0.48	10	ug/L	10	8/4/2015 01:00 PM
o-Xylene	1800	4.2	100	ug/L	100	8/4/2015 12:36 PM
sec-Butylbenzene	9.5	0.050	2.0	ug/L	2	8/4/2015 01:25 PM
Styrene	ND	0.070	2.0	ug/L	2	8/4/2015 01:25 PM
Tert-amyl methyl ether	6.2	0.078	2.0	ug/L	2	8/4/2015 01:25 PM
Tert-Butanol	ND	0.60	10	ug/L	2	8/4/2015 01:25 PM
tert-Butylbenzene	ND	0.060	2.0	ug/L	2	8/4/2015 01:25 PM
Tetrachloroethene	ND	0.33	2.0	ug/L	2	8/4/2015 01:25 PM
Toluene	5100	4.2	200	ug/L	100	8/4/2015 12:36 PM
trans-1,2-Dichloroethene	ND	0.14	2.0	ug/L	2	8/4/2015 01:25 PM
trans-1,3-Dichloropropene	ND	0.078	2.0	ug/L	2	8/4/2015 01:25 PM
Trichloroethene	ND	0.25	2.0	ug/L	2	8/4/2015 01:25 PM
Trichlorofluoromethane	ND	0.062	2.0	ug/L	2	8/4/2015 01:25 PM
Vinyl chloride	ND	0.19	1.0	ug/L	2	8/4/2015 01:25 PM
Xylenes, Total	6200	150	200	ug/L	100	8/4/2015 12:36 PM
Surr: 1,2-Dichloroethane-d4	113	0	72-119	%REC	2	8/4/2015 01:25 PM
Surr: 1,2-Dichloroethane-d4	115	0	72-119	%REC	100	8/4/2015 12:36 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
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DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 07-Aug-15

CLIENT: CH2Mhill
Lab Order: N016471
Project: SFPP - Norwalk Site
Lab ID: N016471-001

Client Sample ID: INF-07-30
Collection Date: 7/30/2015 9:45:00 AM
Matrix: WASTEWATER

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

EPA 8260B

RunID: MS5_150804A	QC Batch: P15VW128	PrepDate:	Analyst: QBM
Surr: 1,2-Dichloroethane-d4	116 0	72-119 %REC	10 8/4/2015 01:00 PM
Surr: 4-Bromofluorobenzene	104 0	76-119 %REC	100 8/4/2015 12:36 PM
Surr: 4-Bromofluorobenzene	107 0	76-119 %REC	2 8/4/2015 01:25 PM
Surr: 4-Bromofluorobenzene	105 0	76-119 %REC	10 8/4/2015 01:00 PM
Surr: Dibromofluoromethane	110 0	85-115 %REC	100 8/4/2015 12:36 PM
Surr: Dibromofluoromethane	104 0	85-115 %REC	2 8/4/2015 01:25 PM
Surr: Dibromofluoromethane	110 0	85-115 %REC	10 8/4/2015 01:00 PM
Surr: Toluene-d8	105 0	81-120 %REC	2 8/4/2015 01:25 PM
Surr: Toluene-d8	104 0	81-120 %REC	10 8/4/2015 01:00 PM
Surr: Toluene-d8	103 0	81-120 %REC	100 8/4/2015 12:36 PM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID: GC3_150803A	QC Batch: 51105	PrepDate: 8/3/2015	Analyst: JAA
TPH-Diesel (C13-C22)	16000 160	260 ug/L	10 8/4/2015 12:06 AM
TPH-Oil (C23-C36)	570 14	26 ug/L	1 8/4/2015 02:17 AM
Surr: Octacosane	100 0	26-152 %REC	1 8/4/2015 02:17 AM
Surr: p-Terphenyl	115 0	57-132 %REC	1 8/4/2015 02:17 AM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_150731A	QC Batch: E15VW049	PrepDate:	Analyst: QBM
TPH-Gasoline (C4-C12)	31000 160	500 ug/L	10 7/31/2015 02:38 PM
Surr: Chlorobenzene - d5	81.0 0	74-138 %REC	10 7/31/2015 02:38 PM

TOTAL TPH

EPA 3510C

EPA 8015B

RunID: GC3_150803A	QC Batch: 51105	PrepDate: 8/3/2015	Analyst: JAA
Total TPH	47570 16	50 ug/L	1 8/4/2015 02:17 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded 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: N016471
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-51105	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 8/3/2015	RunNo: 101542						
Client ID: PBW	Batch ID: 51105	TestNo: EPA 8015B EPA 3510C		Analysis Date: 8/3/2015	SeqNo: 2056172						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	25									
TPH-Oil (C23-C36)	ND	25									
Surr: Octacosane	67.913		80.00		84.9	26	152				
Surr: p-Terphenyl	79.517		80.00		99.4	57	132				

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N016471
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

Sample ID: MB-51105	SampType: MBLK	TestCode: 8015_W_SFP	Units: ug/L	Prep Date: 8/3/2015	RunNo: 101542						
Client ID: PBW	Batch ID: 51105	TestNo: EPA 8015B EPA 3510C		Analysis Date: 8/3/2015	SeqNo: 2056195						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	ND	50									

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| N Parameter not NELAC certified | 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: N016471
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID: E150731LCS	SampType: LCS	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 101525						
Client ID: LCSW	Batch ID: E15VW049	TestNo: EPA 8015B		Analysis Date: 7/31/2015	SeqNo: 2055704						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	865.000	50	1000	0	86.5	67	136				
Surr: Chlorobenzene - d5	47101.000		50000		94.2	74	138				

Sample ID: E150731MB2	SampType: MBLK	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 101525						
Client ID: PBW	Batch ID: E15VW049	TestNo: EPA 8015B		Analysis Date: 7/31/2015	SeqNo: 2055706						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	29.000	50									
Surr: Chlorobenzene - d5	45432.000		50000		90.9	74	138				

Sample ID: N016470-001JMS	SampType: MS	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 101525						
Client ID: ZZZZZ	Batch ID: E15VW049	TestNo: EPA 8015B		Analysis Date: 7/31/2015	SeqNo: 2055709						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	848.000	50	1000	30.00	81.8	67	136				
Surr: Chlorobenzene - d5	47301.000		50000		94.6	74	138				

Sample ID: N016470-001JMSD	SampType: MSD	TestCode: 8015GAS_WS	Units: ug/L	Prep Date:	RunNo: 101525						
Client ID: ZZZZZ	Batch ID: E15VW049	TestNo: EPA 8015B		Analysis Date: 7/31/2015	SeqNo: 2055710						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	843.000	50	1000	30.00	81.3	67	136	848.0	0.591	30	
Surr: Chlorobenzene - d5	48416.000		50000		96.8	74	138		0	0	

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| N Parameter not NELAC certified | 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: N016471
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P150804LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 101562						
Client ID: LCSW	Batch ID: P15VW128	TestNo: EPA 8260B		Analysis Date: 8/4/2015	SeqNo: 2057191						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	20.790	1.0	20.00	0	104	81	129				
1,1,1-Trichloroethane	21.780	1.0	20.00	0	109	67	132				
1,1,2,2-Tetrachloroethane	20.360	1.0	20.00	0	102	63	128				
1,1,2-Trichloroethane	22.120	1.0	20.00	0	111	75	125				
1,1-Dichloroethane	21.250	0.50	20.00	0	106	69	133				
1,1-Dichloroethene	20.650	1.0	20.00	0	103	68	130				
1,1-Dichloropropene	22.330	1.0	20.00	0	112	73	132				
1,2,3-Trichlorobenzene	19.420	1.0	20.00	0	97.1	67	137				
1,2,3-Trichloropropane	19.970	1.0	20.00	0	99.8	73	124				
1,2,4-Trichlorobenzene	19.270	1.0	20.00	0	96.4	66	134				
1,2,4-Trimethylbenzene	19.990	1.0	20.00	0	100	74	132				
1,2-Dibromo-3-chloropropane	20.020	2.0	20.00	0	100	50	132				
1,2-Dibromoethane	21.250	1.0	20.00	0	106	80	121				
1,2-Dichlorobenzene	19.650	1.0	20.00	0	98.2	71	122				
1,2-Dichloroethane	22.520	0.50	20.00	0	113	69	132				
1,2-Dichloropropane	21.980	1.0	20.00	0	110	75	125				
1,3,5-Trimethylbenzene	19.790	1.0	20.00	0	99.0	74	131				
1,3-Dichlorobenzene	19.580	1.0	20.00	0	97.9	75	124				
1,3-Dichloropropane	20.770	1.0	20.00	0	104	73	126				
1,4-Dichlorobenzene	19.640	1.0	20.00	0	98.2	74	123				
2,2-Dichloropropane	21.420	1.0	20.00	0	107	69	137				
2-Butanone	241.620	10	200.0	0	121	49	136				
2-Chlorotoluene	20.010	1.0	20.00	0	100	73	126				
4-Chlorotoluene	20.350	1.0	20.00	0	102	74	128				
4-Isopropyltoluene	19.820	1.0	20.00	0	99.1	73	130				
4-Methyl-2-pentanone	232.180	10	200.0	0	116	58	134				
Acetone	270.070	10	200.0	0	135	40	135				S
Benzene	21.640	1.0	20.00	0	108	81	122				
Bromobenzene	19.210	1.0	20.00	0	96.0	76	124				
Bromochloromethane	22.540	1.0	20.00	0	113	65	129				

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| N Parameter not NELAC certified | 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: N016471
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P150804LCS	SampType: LCS	TestCode: 8260_WP_SF Units: ug/L				Prep Date:			RunNo: 101562		
Client ID: LCSW	Batch ID: P15VW128	TestNo: EPA 8260B				Analysis Date: 8/4/2015			SeqNo: 2057191		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	23.990	1.0	20.00	0	120	76	121				
Bromoform	21.270	1.0	20.00	0	106	69	128				
Bromomethane	24.220	1.0	20.00	0	121	53	141				
Carbon disulfide	22.520	1.0	20.00	0	113	75	125				
Carbon tetrachloride	20.270	0.50	20.00	0	101	66	138				
Chlorobenzene	20.130	1.0	20.00	0	101	81	122				
Chloroethane	47.480	1.0	20.00	0	237	58	133				S
Chloroform	22.060	1.0	20.00	0	110	69	128				
Chloromethane	23.850	1.0	20.00	0	119	56	131				
cis-1,2-Dichloroethene	21.370	1.0	20.00	0	107	72	126				
cis-1,3-Dichloropropene	22.110	1.0	20.00	0	111	69	131				
Di-isopropyl ether	23.600	1.0	20.00	0	118	70	130				
Dibromochloromethane	20.240	1.0	20.00	0	101	66	133				
Dibromomethane	21.780	1.0	20.00	0	109	76	125				
Dichlorodifluoromethane	21.710	1.0	20.00	0	109	53	153				
Ethyl tert-butyl ether	22.000	1.0	20.00	0	110	70	130				
Ethylbenzene	20.190	1.0	20.00	0	101	73	127				
Freon-113	21.900	1.0	20.00	0	110	75	125				
Hexachlorobutadiene	18.740	1.0	20.00	0	93.7	67	131				
Isopropylbenzene	19.760	1.0	20.00	0	98.8	75	127				
m,p-Xylene	40.820	1.0	40.00	0	102	76	128				
Methylene chloride	21.050	2.0	20.00	0	105	63	137				
MTBE	21.650	1.0	20.00	0	108	65	123				
n-Butylbenzene	20.660	1.0	20.00	0	103	69	137				
n-Propylbenzene	20.140	1.0	20.00	0	101	72	129				
Naphthalene	20.010	1.0	20.00	0	100	54	138				
o-Xylene	20.380	1.0	20.00	0	102	80	121				
sec-Butylbenzene	19.900	1.0	20.00	0	99.5	72	127				
Styrene	20.200	1.0	20.00	0	101	65	134				
Tert-amyl methyl ether	20.610	1.0	20.00	0	103	70	130				

Qualifiers:

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CLIENT: CH2MHill
Work Order: N016471
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P150804LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 101562						
Client ID: LCSSW	Batch ID: P15VW128	TestNo: EPA 8260B		Analysis Date: 8/4/2015	SeqNo: 2057191						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tert-Butanol	94.970	5.0	100.0	0	95.0	70	130				
tert-Butylbenzene	19.680	1.0	20.00	0	98.4	70	129				
Tetrachloroethene	20.300	1.0	20.00	0	102	66	128				
Toluene	21.810	2.0	20.00	0	109	77	122				
trans-1,2-Dichloroethene	21.680	1.0	20.00	0	108	63	137				
trans-1,3-Dichloropropene	21.850	1.0	20.00	0	109	59	135				
Trichloroethene	21.160	1.0	20.00	0	106	70	127				
Trichlorofluoromethane	24.290	1.0	20.00	0	121	57	129				
Vinyl chloride	20.780	0.50	20.00	0	104	50	134				
Xylenes, Total	61.200	2.0	60.00	0	102	75	125				
Surr: 1,2-Dichloroethane-d4	28.580		25.00		114	72	119				
Surr: 4-Bromofluorobenzene	26.920		25.00		108	76	119				
Surr: Dibromofluoromethane	27.590		25.00		110	85	115				
Surr: Toluene-d8	26.840		25.00		107	81	120				

Sample ID: P150804LCSD	SampType: LCSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 101562						
Client ID: LCSS02	Batch ID: P15VW128	TestNo: EPA 8260B		Analysis Date: 8/4/2015	SeqNo: 2057192						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	20.960	1.0	20.00	0	105	81	129	20.79	0.814	20	
1,1,1-Trichloroethane	22.450	1.0	20.00	0	112	67	132	21.78	3.03	20	
1,1,2,2-Tetrachloroethane	20.860	1.0	20.00	0	104	63	128	20.36	2.43	20	
1,1,2-Trichloroethane	22.060	1.0	20.00	0	110	75	125	22.12	0.272	20	
1,1-Dichloroethane	21.810	0.50	20.00	0	109	69	133	21.25	2.60	20	
1,1-Dichloroethene	22.370	1.0	20.00	0	112	68	130	20.65	8.00	20	
1,1-Dichloropropene	22.200	1.0	20.00	0	111	73	132	22.33	0.584	20	
1,2,3-Trichlorobenzene	19.780	1.0	20.00	0	98.9	67	137	19.42	1.84	20	
1,2,3-Trichloropropane	20.320	1.0	20.00	0	102	73	124	19.97	1.74	20	
1,2,4-Trichlorobenzene	19.720	1.0	20.00	0	98.6	66	134	19.27	2.31	20	
1,2,4-Trimethylbenzene	20.310	1.0	20.00	0	102	74	132	19.99	1.59	20	

Qualifiers:

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CLIENT: CH2MHill
Work Order: N016471
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P150804LCSD	SampType: LCSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 101562						
Client ID: LCSS02	Batch ID: P15VW128	TestNo: EPA 8260B		Analysis Date: 8/4/2015	SeqNo: 2057192						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	20.280	2.0	20.00	0	101	50	132	20.02	1.29	20	
1,2-Dibromoethane	21.770	1.0	20.00	0	109	80	121	21.25	2.42	20	
1,2-Dichlorobenzene	20.180	1.0	20.00	0	101	71	122	19.65	2.66	20	
1,2-Dichloroethane	22.400	0.50	20.00	0	112	69	132	22.52	0.534	20	
1,2-Dichloropropane	21.860	1.0	20.00	0	109	75	125	21.98	0.547	20	
1,3,5-Trimethylbenzene	20.250	1.0	20.00	0	101	74	131	19.79	2.30	20	
1,3-Dichlorobenzene	19.850	1.0	20.00	0	99.2	75	124	19.58	1.37	20	
1,3-Dichloropropane	20.830	1.0	20.00	0	104	73	126	20.77	0.288	20	
1,4-Dichlorobenzene	19.850	1.0	20.00	0	99.2	74	123	19.64	1.06	20	
2,2-Dichloropropane	21.680	1.0	20.00	0	108	69	137	21.42	1.21	20	
2-Butanone	245.570	10	200.0	0	123	49	136	241.6	1.62	20	
2-Chlorotoluene	20.260	1.0	20.00	0	101	73	126	20.01	1.24	20	
4-Chlorotoluene	20.640	1.0	20.00	0	103	74	128	20.35	1.41	20	
4-Isopropyltoluene	20.100	1.0	20.00	0	101	73	130	19.82	1.40	20	
4-Methyl-2-pentanone	238.880	10	200.0	0	119	58	134	232.2	2.84	20	
Acetone	264.650	10	200.0	0	132	40	135	270.1	2.03	20	
Benzene	21.420	1.0	20.00	0	107	81	122	21.64	1.02	20	
Bromobenzene	19.730	1.0	20.00	0	98.6	76	124	19.21	2.67	20	
Bromochloromethane	22.950	1.0	20.00	0	115	65	129	22.54	1.80	20	
Bromodichloromethane	24.290	1.0	20.00	0	121	76	121	23.99	1.24	20	S
Bromoform	21.230	1.0	20.00	0	106	69	128	21.27	0.188	20	
Bromomethane	24.410	1.0	20.00	0	122	53	141	24.22	0.781	20	
Carbon disulfide	23.280	1.0	20.00	0	116	75	125	22.52	3.32	20	
Carbon tetrachloride	20.690	0.50	20.00	0	103	66	138	20.27	2.05	20	
Chlorobenzene	20.220	1.0	20.00	0	101	81	122	20.13	0.446	20	
Chloroethane	29.350	1.0	20.00	0	147	58	133	47.48	47.2	20	SR
Chloroform	22.520	1.0	20.00	0	113	69	128	22.06	2.06	20	
Chloromethane	24.180	1.0	20.00	0	121	56	131	23.85	1.37	20	
cis-1,2-Dichloroethene	21.920	1.0	20.00	0	110	72	126	21.37	2.54	20	
cis-1,3-Dichloropropene	21.800	1.0	20.00	0	109	69	131	22.11	1.41	20	

Qualifiers:

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

CLIENT: CH2MHill
Work Order: N016471
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P150804LCSD	SampType: LCSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 101562						
Client ID: LCSS02	Batch ID: P15VW128	TestNo: EPA 8260B		Analysis Date: 8/4/2015	SeqNo: 2057192						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-isopropyl ether	23.780	1.0	20.00	0	119	70	130	23.60	0.760	20	
Dibromochloromethane	20.550	1.0	20.00	0	103	66	133	20.24	1.52	20	
Dibromomethane	22.400	1.0	20.00	0	112	76	125	21.78	2.81	20	
Dichlorodifluoromethane	21.820	1.0	20.00	0	109	53	153	21.71	0.505	20	
Ethyl tert-butyl ether	22.530	1.0	20.00	0	113	70	130	22.00	2.38	20	
Ethylbenzene	20.200	1.0	20.00	0	101	73	127	20.19	0.0495	20	
Freon-113	22.590	1.0	20.00	0	113	75	125	21.90	3.10	20	
Hexachlorobutadiene	19.160	1.0	20.00	0	95.8	67	131	18.74	2.22	20	
Isopropylbenzene	20.030	1.0	20.00	0	100	75	127	19.76	1.36	20	
m,p-Xylene	41.220	1.0	40.00	0	103	76	128	40.82	0.975	20	
Methylene chloride	21.210	2.0	20.00	0	106	63	137	21.05	0.757	20	
MTBE	21.990	1.0	20.00	0	110	65	123	21.65	1.56	20	
n-Butylbenzene	20.790	1.0	20.00	0	104	69	137	20.66	0.627	20	
n-Propylbenzene	20.680	1.0	20.00	0	103	72	129	20.14	2.65	20	
Naphthalene	20.980	1.0	20.00	0	105	54	138	20.01	4.73	20	
o-Xylene	20.360	1.0	20.00	0	102	80	121	20.38	0.0982	20	
sec-Butylbenzene	20.050	1.0	20.00	0	100	72	127	19.90	0.751	20	
Styrene	20.880	1.0	20.00	0	104	65	134	20.20	3.31	20	
Tert-amyl methyl ether	21.090	1.0	20.00	0	105	70	130	20.61	2.30	20	
Tert-Butanol	100.330	5.0	100.0	0	100	70	130	94.97	5.49	20	
tert-Butylbenzene	19.870	1.0	20.00	0	99.4	70	129	19.68	0.961	20	
Tetrachloroethene	20.070	1.0	20.00	0	100	66	128	20.30	1.14	20	
Toluene	21.630	2.0	20.00	0	108	77	122	21.81	0.829	20	
trans-1,2-Dichloroethene	21.850	1.0	20.00	0	109	63	137	21.68	0.781	20	
trans-1,3-Dichloropropene	21.930	1.0	20.00	0	110	59	135	21.85	0.365	20	
Trichloroethene	21.440	1.0	20.00	0	107	70	127	21.16	1.31	20	
Trichlorofluoromethane	24.380	1.0	20.00	0	122	57	129	24.29	0.370	20	
Vinyl chloride	20.600	0.50	20.00	0	103	50	134	20.78	0.870	20	
Xylenes, Total	61.580	2.0	60.00	0	103	75	125	61.20	0.619	20	
Surr: 1,2-Dichloroethane-d4	28.820		25.00		115	72	119		0		

Qualifiers:

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CLIENT: CH2MHill
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Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P150804LCSD	SampType: LCSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 101562						
Client ID: LCSS02	Batch ID: P15VW128	TestNo: EPA 8260B	Analysis Date: 8/4/2015	SeqNo: 2057192							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	26.080		25.00		104	76	119		0		
Surr: Dibromofluoromethane	27.530		25.00		110	85	115		0		
Surr: Toluene-d8	26.120		25.00		104	81	120		0		

Sample ID: P150804MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 101562						
Client ID: PBW	Batch ID: P15VW128	TestNo: EPA 8260B	Analysis Date: 8/4/2015	SeqNo: 2057193							
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	0.140	1.0									
1,2,3-Trichloropropane	ND	1.0									
1,2,4-Trichlorobenzene	0.110	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	0.020	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									

Qualifiers:

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ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P150804MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 101562
Client ID: PBW	Batch ID: P15VW128	TestNo: EPA 8260B		Analysis Date: 8/4/2015	SeqNo: 2057193

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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	0.180	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									
Hexachlorobutadiene	ND	1.0									
Isopropylbenzene	ND	1.0									
m,p-Xylene	ND	1.0									
Methylene chloride	0.810	2.0									

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 |
| N Parameter not NELAC certified | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



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

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N016471
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P150804MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 101562
Client ID: PBW	Batch ID: P15VW128	TestNo: EPA 8260B		Analysis Date: 8/4/2015	SeqNo: 2057193

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	ND	1.0									
n-Butylbenzene	0.050	1.0									
n-Propylbenzene	ND	1.0									
Naphthalene	0.170	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	28.710		25.00		115	72	119				
Surr: 4-Bromofluorobenzene	25.370		25.00		101	76	119				
Surr: Dibromofluoromethane	27.320		25.00		109	85	115				
Surr: Toluene-d8	25.530		25.00		102	81	120				

Qualifiers:

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



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

CHAIN OF CUSTODY RECORD

DATE: 7/30/15
 PAGE: 1 OF 1

4.30 IR#2

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Defibaugh					CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site			P.O. NO.:													
ADDRESS: 1100 Town & Country Road					PROJECT CONTACT: James Dye			QUOTE NO.:													
CITY: Orange, CA 92868					SAMPLER(S) (SIGNATURE):			LAB USE ONLY													
TEL: 714-560-4802		FAX: 714-560-4601		E-MAIL james.dye@kindermorgan.com																	
TURNAROUND TIME <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS					REQUESTED ANALYSIS																
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL ___/___/___																					
SPECIAL INSTRUCTIONS Report to D. Jablonski/CH2M HILL, cc: KMEP Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195 "J" flags required/Use lowest possible detection limit - all methods.																					
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING		MAT-RIX	NO. OF CONT.	TPH - g, TPH-d, and TPH-oil (8015M)	Full VOC+ Oxygenates List (8260B)												Comments	
			DATE	TIME																	
	INF-07-30	Influent	7/30/2015	0945	WW	8	X	X													NO16471 - 01
Relinquished by: (Signature)	<i>[Signature]</i>					Received by: (Signature)					Date: <u>7/30/15</u>		Time: <u>10:15</u>								
Relinquished by: (Signature)	<i>[Signature]</i>					Received by: (Signature)					Date: <u>7/30/15</u>		Time: <u>0810</u>								
Relinquished by: (Signature)	<u>7-30-15 11:27 AM</u>					Received by: (Signature)					Date:		Time:								

ASSET Laboratories

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

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

Cooler Received/Opened On: 7/31/2015 Workorder: N016471
 Rep sample Temp (Deg C): 4.3 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 3749 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? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Was Client notified? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments:

Checklist Completed By JPG  07/31/15

Reviewed By:  07/31/15

ASSET Laboratories

WORK ORDER Summary

31-Jul-15

WorkOrder: N016471

Client ID: CH2HI03

Project: SFPP - Norwalk Site

QC Level: RTNE

Date Received: 7/31/2015

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

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N016471-001A	INF-07-30	7/30/2015 9:45:00 AM	8/7/2015	Wastewater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
			8/7/2015		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N016471-001B			8/7/2015		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/7/2015		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/7/2015		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N016471-002A	FOLDER		8/7/2015	Folder	Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB



800-322-5555 www.gso.com

Ship From

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

Tracking #: 528773749

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



40686954

Print Date: 7/30/2015 3:58 PM

LABEL INSTRUCTIONS:

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

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

August 17, 2015

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

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

TEL:

FAX:

Workorder No.: N016534

RE: SFPP - Norwalk Site

Attention: Dan Jablonski

Enclosed are the results for sample(s) received on August 07, 2015 by ASSET Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,



Glen Gesmundo
QA Manager

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



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"Serving Clients with Passion and Professionalism"

CLIENT: CH2Mhill
Project: SFPP - Norwalk Site
Lab Order: N016534

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.



CLIENT: CH2MHill
Project: SFPP - Norwalk Site
Lab Order: N016534
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N016534-001A	INF-08-06	Wastewater	8/6/2015 1:45:00 PM	8/7/2015	8/17/2015
N016534-001B	INF-08-06	Wastewater	8/6/2015 1:45:00 PM	8/7/2015	8/17/2015



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 17-Aug-15

CLIENT: CH2MHill
Lab Order: N016534
Project: SFPP - Norwalk Site
Lab ID: N016534-001

Client Sample ID: INF-08-06
Collection Date: 8/6/2015 1:45:00 PM
Matrix: WASTEWATER

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_150810A	QC Batch: P15VW131	PrepDate:	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.13	2.0	ug/L	2	8/11/2015 01:00 AM
1,1,1-Trichloroethane	ND	0.14	2.0	ug/L	2	8/11/2015 01:00 AM
1,1,2,2-Tetrachloroethane	ND	0.062	2.0	ug/L	2	8/11/2015 01:00 AM
1,1,2-Trichloroethane	ND	0.12	2.0	ug/L	2	8/11/2015 01:00 AM
1,1-Dichloroethane	ND	0.044	1.0	ug/L	2	8/11/2015 01:00 AM
1,1-Dichloroethene	ND	0.17	2.0	ug/L	2	8/11/2015 01:00 AM
1,1-Dichloropropene	ND	0.088	2.0	ug/L	2	8/11/2015 01:00 AM
1,2,3-Trichlorobenzene	ND	0.11	2.0	ug/L	2	8/11/2015 01:00 AM
1,2,3-Trichloropropane	ND	0.12	2.0	ug/L	2	8/11/2015 01:00 AM
1,2,4-Trichlorobenzene	ND	0.12	2.0	ug/L	2	8/11/2015 01:00 AM
1,2,4-Trimethylbenzene	990	0.42	10	ug/L	10	8/11/2015 12:34 AM
1,2-Dibromo-3-chloropropane	ND	0.094	4.0	ug/L	2	8/11/2015 01:00 AM
1,2-Dibromoethane	ND	0.11	2.0	ug/L	2	8/11/2015 01:00 AM
1,2-Dichlorobenzene	ND	0.080	2.0	ug/L	2	8/11/2015 01:00 AM
1,2-Dichloroethane	ND	0.13	1.0	ug/L	2	8/11/2015 01:00 AM
1,2-Dichloropropane	ND	0.12	2.0	ug/L	2	8/11/2015 01:00 AM
1,3,5-Trimethylbenzene	240	0.15	10	ug/L	10	8/11/2015 12:34 AM
1,3-Dichlorobenzene	ND	0.11	2.0	ug/L	2	8/11/2015 01:00 AM
1,3-Dichloropropane	ND	0.080	2.0	ug/L	2	8/11/2015 01:00 AM
1,4-Dichlorobenzene	ND	0.060	2.0	ug/L	2	8/11/2015 01:00 AM
2,2-Dichloropropane	ND	0.052	2.0	ug/L	2	8/11/2015 01:00 AM
2-Butanone	ND	0.97	20	ug/L	2	8/11/2015 01:00 AM
2-Chlorotoluene	ND	0.080	2.0	ug/L	2	8/11/2015 01:00 AM
4-Chlorotoluene	ND	0.072	2.0	ug/L	2	8/11/2015 01:00 AM
4-Isopropyltoluene	6.4	0.044	2.0	ug/L	2	8/11/2015 01:00 AM
4-Methyl-2-pentanone	6.4	0.34	20	J ug/L	2	8/11/2015 01:00 AM
Acetone	120	2.1	20	ug/L	2	8/11/2015 01:00 AM
Benzene	2600	3.6	100	ug/L	100	8/11/2015 12:09 AM
Bromobenzene	ND	0.086	2.0	ug/L	2	8/11/2015 01:00 AM
Bromochloromethane	ND	0.44	2.0	ug/L	2	8/11/2015 01:00 AM
Bromodichloromethane	ND	0.062	2.0	ug/L	2	8/11/2015 01:00 AM
Bromoform	ND	0.65	2.0	ug/L	2	8/11/2015 01:00 AM
Bromomethane	ND	0.65	2.0	ug/L	2	8/11/2015 01:00 AM
Carbon disulfide	1.2	0.050	2.0	J ug/L	2	8/11/2015 01:00 AM
Carbon tetrachloride	ND	0.11	1.0	ug/L	2	8/11/2015 01:00 AM
Chlorobenzene	ND	0.072	2.0	ug/L	2	8/11/2015 01:00 AM

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



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ANALYTICAL RESULTS

Print Date: 17-Aug-15

CLIENT: CH2MHill
Lab Order: N016534
Project: SFPP - Norwalk Site
Lab ID: N016534-001

Client Sample ID: INF-08-06
Collection Date: 8/6/2015 1:45:00 PM
Matrix: WASTEWATER

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

EPA 8260B

RunID: MS5_150810A	QC Batch: P15VW131	PrepDate:	Analyst: QBM			
Chloroethane	ND	0.20	2.0	ug/L	2	8/11/2015 01:00 AM
Chloroform	ND	0.072	2.0	ug/L	2	8/11/2015 01:00 AM
Chloromethane	ND	0.23	2.0	ug/L	2	8/11/2015 01:00 AM
cis-1,2-Dichloroethene	ND	0.10	2.0	ug/L	2	8/11/2015 01:00 AM
cis-1,3-Dichloropropene	ND	0.088	2.0	ug/L	2	8/11/2015 01:00 AM
Di-isopropyl ether	16	0.034	2.0	ug/L	2	8/11/2015 01:00 AM
Dibromochloromethane	ND	0.14	2.0	ug/L	2	8/11/2015 01:00 AM
Dibromomethane	ND	0.34	2.0	ug/L	2	8/11/2015 01:00 AM
Dichlorodifluoromethane	ND	0.14	2.0	ug/L	2	8/11/2015 01:00 AM
Ethyl tert-butyl ether	ND	0.078	2.0	ug/L	2	8/11/2015 01:00 AM
Ethylbenzene	500	0.36	10	ug/L	10	8/11/2015 12:34 AM
Freon-113	ND	0.15	2.0	ug/L	2	8/11/2015 01:00 AM
Hexachlorobutadiene	ND	0.21	2.0	ug/L	2	8/11/2015 01:00 AM
Isopropylbenzene	34	0.068	2.0	ug/L	2	8/11/2015 01:00 AM
m,p-Xylene	4400	2.4	100	ug/L	100	8/11/2015 12:09 AM
Methylene chloride	ND	0.56	4.0	ug/L	2	8/11/2015 01:00 AM
MTBE	700	0.62	10	ug/L	10	8/11/2015 12:34 AM
n-Butylbenzene	14	0.062	2.0	ug/L	2	8/11/2015 01:00 AM
n-Propylbenzene	94	0.036	2.0	ug/L	2	8/11/2015 01:00 AM
Naphthalene	350	0.48	10	ug/L	10	8/11/2015 12:34 AM
o-Xylene	1800	4.2	100	ug/L	100	8/11/2015 12:09 AM
sec-Butylbenzene	9.9	0.050	2.0	ug/L	2	8/11/2015 01:00 AM
Styrene	ND	0.070	2.0	ug/L	2	8/11/2015 01:00 AM
Tert-amyl methyl ether	6.4	0.078	2.0	ug/L	2	8/11/2015 01:00 AM
Tert-Butanol	ND	0.60	10	ug/L	2	8/11/2015 01:00 AM
tert-Butylbenzene	0.38	0.060	2.0	J ug/L	2	8/11/2015 01:00 AM
Tetrachloroethene	0.46	0.33	2.0	J ug/L	2	8/11/2015 04:01 PM
Toluene	3100	4.2	200	ug/L	100	8/11/2015 12:09 AM
trans-1,2-Dichloroethene	ND	0.14	2.0	ug/L	2	8/11/2015 01:00 AM
trans-1,3-Dichloropropene	ND	0.078	2.0	ug/L	2	8/11/2015 01:00 AM
Trichloroethene	ND	0.25	2.0	ug/L	2	8/11/2015 04:01 PM
Trichlorofluoromethane	ND	0.062	2.0	ug/L	2	8/11/2015 01:00 AM
Vinyl chloride	ND	0.19	1.0	ug/L	2	8/11/2015 01:00 AM
Xylenes, Total	6200	150	200	ug/L	100	8/11/2015 12:09 AM
Surr: 1,2-Dichloroethane-d4	98.2	0	72-119	%REC	2	8/11/2015 04:01 PM
Surr: 1,2-Dichloroethane-d4	101	0	72-119	%REC	100	8/11/2015 12:09 AM

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



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ANALYTICAL RESULTS

Print Date: 17-Aug-15

CLIENT: CH2MHill
Lab Order: N016534
Project: SFPP - Norwalk Site
Lab ID: N016534-001

Client Sample ID: INF-08-06
Collection Date: 8/6/2015 1:45:00 PM
Matrix: WASTEWATER

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

EPA 8260B

RunID: MS5_150810A	QC Batch: P15VW131	PrepDate:	Analyst: QBM
Surr: 1,2-Dichloroethane-d4	97.2 0	72-119 %REC	2 8/11/2015 01:00 AM
Surr: 1,2-Dichloroethane-d4	98.7 0	72-119 %REC	10 8/11/2015 12:34 AM
Surr: 4-Bromofluorobenzene	104 0	76-119 %REC	100 8/11/2015 12:09 AM
Surr: 4-Bromofluorobenzene	108 0	76-119 %REC	10 8/11/2015 12:34 AM
Surr: 4-Bromofluorobenzene	108 0	76-119 %REC	2 8/11/2015 01:00 AM
Surr: 4-Bromofluorobenzene	108 0	76-119 %REC	2 8/11/2015 04:01 PM
Surr: Dibromofluoromethane	88.4 0	85-115 %REC	2 8/11/2015 04:01 PM
Surr: Dibromofluoromethane	91.4 0	85-115 %REC	2 8/11/2015 01:00 AM
Surr: Dibromofluoromethane	98.5 0	85-115 %REC	100 8/11/2015 12:09 AM
Surr: Dibromofluoromethane	95.3 0	85-115 %REC	10 8/11/2015 12:34 AM
Surr: Toluene-d8	106 0	81-120 %REC	2 8/11/2015 01:00 AM
Surr: Toluene-d8	102 0	81-120 %REC	100 8/11/2015 12:09 AM
Surr: Toluene-d8	103 0	81-120 %REC	2 8/11/2015 04:01 PM
Surr: Toluene-d8	101 0	81-120 %REC	10 8/11/2015 12:34 AM

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID: GC3_150814A	QC Batch: 51165	PrepDate: 8/13/2015	Analyst: JAA
TPH-Diesel (C13-C22)	17000 160	260 ug/L	10 8/14/2015 10:48 AM
TPH-Oil (C23-C36)	570 14	26 ug/L	1 8/13/2015 07:50 PM
Surr: Octacosane	94.5 0	26-152 %REC	10 8/14/2015 10:48 AM
Surr: Octacosane	98.8 0	26-152 %REC	1 8/13/2015 07:50 PM
Surr: p-Terphenyl	106 0	57-132 %REC	10 8/14/2015 10:48 AM
Surr: p-Terphenyl	115 0	57-132 %REC	1 8/13/2015 07:50 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_150807A	QC Batch: E15VW050	PrepDate:	Analyst: QBM
TPH-Gasoline (C4-C12)	30000 160	500 ug/L	10 8/7/2015 12:40 PM
Surr: Chlorobenzene - d5	79.2 0	74-138 %REC	10 8/7/2015 12:40 PM

TOTAL TPH

EPA 3510C

EPA 8015B

RunID: GC3_150813A	QC Batch: 51165	PrepDate: 8/13/2015	Analyst: JAA
Total TPH	37570 16	50 ug/L	1 8/13/2015 07:50 PM

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



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 Work Order: N016534
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID: MB-51165	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 8/13/2015	RunNo: 101698						
Client ID: PBW	Batch ID: 51165	TestNo: EPA 8015B EPA 3510C		Analysis Date: 8/13/2015	SeqNo: 2062271						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	25									
TPH-Oil (C23-C36)	ND	25									
Surr: Octacosane	71.435		80.00		89.3	26	152				
Surr: p-Terphenyl	79.018		80.00		98.8	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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Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

Sample ID: MB-51165	SampType: MBLK	TestCode: 8015_W_SFP	Units: ug/L	Prep Date: 8/13/2015	RunNo: 101698						
Client ID: PBW	Batch ID: 51165	TestNo: EPA 8015B EPA 3510C		Analysis Date: 8/13/2015	SeqNo: 2062277						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	ND	50									

Qualifiers:

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



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Work Order: N016534
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPF

Sample ID: E150807LCS		SampType: LCS		TestCode: 8015GAS_WS Units: ug/L			Prep Date:		RunNo: 101608		
Client ID: LCSW		Batch ID: E15VW050		TestNo: EPA 8015B			Analysis Date: 8/7/2015		SeqNo: 2058722		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	872.000	50	1000	0	87.2	67	136				
Surr: Chlorobenzene - d5	50434.000		50000		101	74	138				

Sample ID: E150807MB2		SampType: MBLK		TestCode: 8015GAS_WS Units: ug/L			Prep Date:		RunNo: 101608		
Client ID: PBW		Batch ID: E15VW050		TestNo: EPA 8015B			Analysis Date: 8/7/2015		SeqNo: 2058724		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	29.000	50									J
Surr: Chlorobenzene - d5	45255.000		50000		90.5	74	138				

Sample ID: N016535-001BMS		SampType: MS		TestCode: 8015GAS_WS Units: ug/L			Prep Date:		RunNo: 101608		
Client ID: ZZZZZ		Batch ID: E15VW050		TestNo: EPA 8015B			Analysis Date: 8/7/2015		SeqNo: 2058727		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	847.000	50	1000	28.00	81.9	67	136				
Surr: Chlorobenzene - d5	51300.000		50000		103	74	138				

Sample ID: N016535-001BMSD		SampType: MSD		TestCode: 8015GAS_WS Units: ug/L			Prep Date:		RunNo: 101608		
Client ID: ZZZZZ		Batch ID: E15VW050		TestNo: EPA 8015B			Analysis Date: 8/7/2015		SeqNo: 2058728		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	805.000	50	1000	28.00	77.7	67	136	847.0	5.08	30	
Surr: Chlorobenzene - d5	44671.000		50000		89.3	74	138		0	0	

Qualifiers:

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



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CLIENT: CH2MHill
 Work Order: N016534
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P150810LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 101655
Client ID: LCSW	Batch ID: P15VW131	TestNo: EPA 8260B		Analysis Date: 8/10/2015	SeqNo: 2060675

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	21.040	1.0	20.00	0	105	81	129				
1,1,1-Trichloroethane	20.290	1.0	20.00	0	101	67	132				
1,1,2,2-Tetrachloroethane	20.270	1.0	20.00	0	101	63	128				
1,1,2-Trichloroethane	20.340	1.0	20.00	0	102	75	125				
1,1-Dichloroethane	19.870	0.50	20.00	0	99.4	69	133				
1,1-Dichloroethene	20.750	1.0	20.00	0	104	68	130				
1,1-Dichloropropene	21.540	1.0	20.00	0	108	73	132				
1,2,3-Trichlorobenzene	22.950	1.0	20.00	0	115	67	137				
1,2,3-Trichloropropane	20.830	1.0	20.00	0	104	73	124				
1,2,4-Trichlorobenzene	22.200	1.0	20.00	0	111	66	134				
1,2,4-Trimethylbenzene	22.310	1.0	20.00	0	112	74	132				
1,2-Dibromo-3-chloropropane	21.600	2.0	20.00	0	108	50	132				
1,2-Dibromoethane	20.540	1.0	20.00	0	103	80	121				
1,2-Dichlorobenzene	21.000	1.0	20.00	0	105	71	122				
1,2-Dichloroethane	20.520	0.50	20.00	0	103	69	132				
1,2-Dichloropropane	20.800	1.0	20.00	0	104	75	125				
1,3,5-Trimethylbenzene	22.100	1.0	20.00	0	110	74	131				
1,3-Dichlorobenzene	21.460	1.0	20.00	0	107	75	124				
1,3-Dichloropropane	20.960	1.0	20.00	0	105	73	126				
1,4-Dichlorobenzene	20.810	1.0	20.00	0	104	74	123				
2,2-Dichloropropane	17.800	1.0	20.00	0	89.0	69	137				
2-Butanone	190.200	10	200.0	0	95.1	49	136				
2-Chlorotoluene	21.290	1.0	20.00	0	106	73	126				
4-Chlorotoluene	21.530	1.0	20.00	0	108	74	128				
4-Isopropyltoluene	22.670	1.0	20.00	0	113	73	130				
4-Methyl-2-pentanone	214.630	10	200.0	0	107	58	134				
Acetone	185.080	10	200.0	0	92.5	40	135				
Benzene	20.860	1.0	20.00	0	104	81	122				
Bromobenzene	20.550	1.0	20.00	0	103	76	124				
Bromochloromethane	19.570	1.0	20.00	0	97.9	65	129				

Qualifiers:

- | | | |
|--|--|--|
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CLIENT: CH2MHill
Work Order: N016534
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P150810LCS		SampType: LCS		TestCode: 8260_WP_SF Units: ug/L			Prep Date:		RunNo: 101655		
Client ID: LCSW		Batch ID: P15VW131		TestNo: EPA 8260B			Analysis Date: 8/10/2015		SeqNo: 2060675		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	20.730	1.0	20.00	0	104	76	121				
Bromoform	20.910	1.0	20.00	0	105	69	128				
Bromomethane	20.960	1.0	20.00	0	105	53	141				
Carbon disulfide	20.480	1.0	20.00	0	102	75	125				
Carbon tetrachloride	21.780	0.50	20.00	0	109	66	138				
Chlorobenzene	20.810	1.0	20.00	0	104	81	122				
Chloroethane	26.520	1.0	20.00	0	133	58	133				
Chloroform	19.620	1.0	20.00	0	98.1	69	128				
Chloromethane	18.980	1.0	20.00	0	94.9	56	131				
cis-1,2-Dichloroethene	19.830	1.0	20.00	0	99.2	72	126				
cis-1,3-Dichloropropene	21.120	1.0	20.00	0	106	69	131				
Di-isopropyl ether	21.180	1.0	20.00	0	106	70	130				
Dibromochloromethane	20.340	1.0	20.00	0	102	66	133				
Dibromomethane	20.670	1.0	20.00	0	103	76	125				
Dichlorodifluoromethane	20.660	1.0	20.00	0	103	53	153				
Ethyl tert-butyl ether	21.120	1.0	20.00	0	106	70	130				
Ethylbenzene	20.760	1.0	20.00	0	104	73	127				
Freon-113	20.060	1.0	20.00	0	100	75	125				
Hexachlorobutadiene	21.240	1.0	20.00	0	106	67	131				
Isopropylbenzene	22.040	1.0	20.00	0	110	75	127				
m,p-Xylene	42.880	1.0	40.00	0	107	76	128				
Methylene chloride	19.850	2.0	20.00	0	99.2	63	137				
MTBE	19.670	1.0	20.00	0	98.4	65	123				
n-Butylbenzene	21.620	1.0	20.00	0	108	69	137				
n-Propylbenzene	22.000	1.0	20.00	0	110	72	129				
Naphthalene	20.330	1.0	20.00	0	102	54	138				
o-Xylene	21.710	1.0	20.00	0	109	80	121				
sec-Butylbenzene	22.290	1.0	20.00	0	111	72	127				
Styrene	22.250	1.0	20.00	0	111	65	134				
Tert-amyl methyl ether	20.890	1.0	20.00	0	104	70	130				

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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Work Order: N016534
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P150810LCS		SampType: LCS		TestCode: 8260_WP_SF		Units: ug/L		Prep Date:		RunNo: 101655	
Client ID: LCSSW		Batch ID: P15VW131		TestNo: EPA 8260B				Analysis Date: 8/10/2015		SeqNo: 2060675	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tert-Butanol	95.400	5.0	100.0	0	95.4	70	130				
tert-Butylbenzene	22.200	1.0	20.00	0	111	70	129				
Tetrachloroethene	20.290	1.0	20.00	0	101	66	128				
Toluene	20.950	2.0	20.00	0	105	77	122				
trans-1,2-Dichloroethene	20.530	1.0	20.00	0	103	63	137				
trans-1,3-Dichloropropene	20.820	1.0	20.00	0	104	59	135				
Trichloroethene	20.510	1.0	20.00	0	103	70	127				
Trichlorofluoromethane	21.280	1.0	20.00	0	106	57	129				
Vinyl chloride	20.870	0.50	20.00	0	104	50	134				
Xylenes, Total	64.590	2.0	60.00	0	108	75	125				
Surr: 1,2-Dichloroethane-d4	25.650		25.00		103	72	119				
Surr: 4-Bromofluorobenzene	26.680		25.00		107	76	119				
Surr: Dibromofluoromethane	26.150		25.00		105	85	115				
Surr: Toluene-d8	26.390		25.00		106	81	120				

Sample ID: P150810LCSD		SampType: LCSD		TestCode: 8260_WP_SF		Units: ug/L		Prep Date:		RunNo: 101655	
Client ID: LCSS02		Batch ID: P15VW131		TestNo: EPA 8260B				Analysis Date: 8/10/2015		SeqNo: 2060675	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	20.550	1.0	20.00	0	103	81	129	21.04	2.36	20	
1,1,1-Trichloroethane	19.800	1.0	20.00	0	99.0	67	132	20.29	2.44	20	
1,1,2,2-Tetrachloroethane	19.530	1.0	20.00	0	97.6	63	128	20.27	3.72	20	
1,1,2-Trichloroethane	20.010	1.0	20.00	0	100	75	125	20.34	1.64	20	
1,1-Dichloroethane	19.420	0.50	20.00	0	97.1	69	133	19.87	2.29	20	
1,1-Dichloroethene	21.160	1.0	20.00	0	106	68	130	20.75	1.96	20	
1,1-Dichloropropene	21.080	1.0	20.00	0	105	73	132	21.54	2.16	20	
1,2,3-Trichlorobenzene	21.870	1.0	20.00	0	109	67	137	22.95	4.82	20	
1,2,3-Trichloropropane	20.060	1.0	20.00	0	100	73	124	20.83	3.77	20	
1,2,4-Trichlorobenzene	21.160	1.0	20.00	0	106	66	134	22.20	4.80	20	
1,2,4-Trimethylbenzene	21.720	1.0	20.00	0	109	74	132	22.31	2.68	20	

Qualifiers:

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

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P150810LCSD	SampType: LCSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 101655						
Client ID: LCSS02	Batch ID: P15VW131	TestNo: EPA 8260B		Analysis Date: 8/10/2015	SeqNo: 2060676						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	20.960	2.0	20.00	0	105	50	132	21.60	3.01	20	
1,2-Dibromoethane	20.640	1.0	20.00	0	103	80	121	20.54	0.486	20	
1,2-Dichlorobenzene	20.320	1.0	20.00	0	102	71	122	21.00	3.29	20	
1,2-Dichloroethane	20.100	0.50	20.00	0	101	69	132	20.52	2.07	20	
1,2-Dichloropropane	20.650	1.0	20.00	0	103	75	125	20.80	0.724	20	
1,3,5-Trimethylbenzene	21.360	1.0	20.00	0	107	74	131	22.10	3.41	20	
1,3-Dichlorobenzene	20.420	1.0	20.00	0	102	75	124	21.46	4.97	20	
1,3-Dichloropropane	20.300	1.0	20.00	0	102	73	126	20.96	3.20	20	
1,4-Dichlorobenzene	20.390	1.0	20.00	0	102	74	123	20.81	2.04	20	
2,2-Dichloropropane	17.060	1.0	20.00	0	85.3	69	137	17.80	4.25	20	
2-Butanone	187.980	10	200.0	0	94.0	49	136	190.2	1.17	20	
2-Chlorotoluene	20.770	1.0	20.00	0	104	73	126	21.29	2.47	20	
4-Chlorotoluene	20.780	1.0	20.00	0	104	74	128	21.53	3.55	20	
4-Isopropyltoluene	21.680	1.0	20.00	0	108	73	130	22.67	4.46	20	
4-Methyl-2-pentanone	213.060	10	200.0	0	107	58	134	214.6	0.734	20	
Acetone	180.390	10	200.0	0	90.2	40	135	185.1	2.57	20	
Benzene	20.300	1.0	20.00	0	102	81	122	20.86	2.72	20	
Bromobenzene	19.920	1.0	20.00	0	99.6	76	124	20.55	3.11	20	
Bromochloromethane	20.380	1.0	20.00	0	102	65	129	19.57	4.06	20	
Bromodichloromethane	20.520	1.0	20.00	0	103	76	121	20.73	1.02	20	
Bromoform	20.300	1.0	20.00	0	102	69	128	20.91	2.96	20	
Bromomethane	21.180	1.0	20.00	0	106	53	141	20.96	1.04	20	
Carbon disulfide	21.140	1.0	20.00	0	106	75	125	20.48	3.17	20	
Carbon tetrachloride	21.050	0.50	20.00	0	105	66	138	21.78	3.41	20	
Chlorobenzene	20.260	1.0	20.00	0	101	81	122	20.81	2.68	20	
Chloroethane	23.250	1.0	20.00	0	116	58	133	26.52	13.1	20	
Chloroform	19.140	1.0	20.00	0	95.7	69	128	19.62	2.48	20	
Chloromethane	18.850	1.0	20.00	0	94.3	56	131	18.98	0.687	20	
cis-1,2-Dichloroethene	19.600	1.0	20.00	0	98.0	72	126	19.83	1.17	20	
cis-1,3-Dichloropropene	20.310	1.0	20.00	0	102	69	131	21.12	3.91	20	

Qualifiers:

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



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ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N016534
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P150810LCSD	SampType: LCSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 101655						
Client ID: LCSS02	Batch ID: P15VW131	TestNo: EPA 8260B		Analysis Date: 8/10/2015	SeqNo: 2060676						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-isopropyl ether	20.470	1.0	20.00	0	102	70	130	21.18	3.41	20	
Dibromochloromethane	19.880	1.0	20.00	0	99.4	66	133	20.34	2.29	20	
Dibromomethane	21.280	1.0	20.00	0	106	76	125	20.67	2.91	20	
Dichlorodifluoromethane	20.600	1.0	20.00	0	103	53	153	20.66	0.291	20	
Ethyl tert-butyl ether	21.000	1.0	20.00	0	105	70	130	21.12	0.570	20	
Ethylbenzene	20.330	1.0	20.00	0	102	73	127	20.76	2.09	20	
Freon-113	20.480	1.0	20.00	0	102	75	125	20.06	2.07	20	
Hexachlorobutadiene	21.070	1.0	20.00	0	105	67	131	21.24	0.804	20	
Isopropylbenzene	21.150	1.0	20.00	0	106	75	127	22.04	4.12	20	
m,p-Xylene	42.070	1.0	40.00	0	105	76	128	42.88	1.91	20	
Methylene chloride	19.770	2.0	20.00	0	98.8	63	137	19.85	0.404	20	
MTBE	19.540	1.0	20.00	0	97.7	65	123	19.67	0.663	20	
n-Butylbenzene	21.020	1.0	20.00	0	105	69	137	21.62	2.81	20	
n-Propylbenzene	21.060	1.0	20.00	0	105	72	129	22.00	4.37	20	
Naphthalene	20.010	1.0	20.00	0	100	54	138	20.33	1.59	20	
o-Xylene	21.420	1.0	20.00	0	107	80	121	21.71	1.34	20	
sec-Butylbenzene	21.320	1.0	20.00	0	107	72	127	22.29	4.45	20	
Styrene	21.940	1.0	20.00	0	110	65	134	22.25	1.40	20	
Tert-amyl methyl ether	20.620	1.0	20.00	0	103	70	130	20.89	1.30	20	
Tert-Butanol	100.690	5.0	100.0	0	101	70	130	95.40	5.40	20	
tert-Butylbenzene	21.350	1.0	20.00	0	107	70	129	22.20	3.90	20	
Tetrachloroethene	19.720	1.0	20.00	0	98.6	66	128	20.29	2.85	20	
Toluene	20.810	2.0	20.00	0	104	77	122	20.95	0.670	20	
trans-1,2-Dichloroethene	20.580	1.0	20.00	0	103	63	137	20.53	0.243	20	
trans-1,3-Dichloropropene	20.420	1.0	20.00	0	102	59	135	20.82	1.94	20	
Trichloroethene	20.470	1.0	20.00	0	102	70	127	20.51	0.195	20	
Trichlorofluoromethane	21.250	1.0	20.00	0	106	57	129	21.28	0.141	20	
Vinyl chloride	20.900	0.50	20.00	0	104	50	134	20.87	0.144	20	
Xylenes, Total	63.490	2.0	60.00	0	106	75	125	64.59	1.72	20	
Surr: 1,2-Dichloroethane-d4	25.560		25.00		102	72	119		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: N016534
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P150810LCSD	SampType: LCSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 101655						
Client ID: LCSS02	Batch ID: P15VW131	TestNo: EPA 8260B	Analysis Date: 8/10/2015	SeqNo: 2060676							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	26.760		25.00		107	76	119		0		
Surr: Dibromofluoromethane	25.400		25.00		102	85	115		0		
Surr: Toluene-d8	26.040		25.00		104	81	120		0		

Sample ID: P150810MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 101655						
Client ID: PBW	Batch ID: P15VW131	TestNo: EPA 8260B	Analysis Date: 8/10/2015	SeqNo: 2060677							
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	0.290	1.0									J
1,2,3-Trichloropropane	ND	1.0									
1,2,4-Trichlorobenzene	0.260	1.0									J
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	2.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	0.080	1.0									J
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	0.040	1.0									J
1,3-Dichlorobenzene	0.080	1.0									J
1,3-Dichloropropane	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
2,2-Dichloropropane	ND	1.0									
2-Butanone	ND	10									

Qualifiers:

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

TestCode: 8260_WP_SFPP

Sample ID: P150810MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 101655						
Client ID: PBW	Batch ID: P15VW131	TestNo: EPA 8260B		Analysis Date: 8/10/2015	SeqNo: 2060677						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chlorotoluene	0.040	1.0									J
4-Chlorotoluene	0.040	1.0									J
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	0.050	1.0									J
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									
Hexachlorobutadiene	ND	1.0									
Isopropylbenzene	ND	1.0									
m,p-Xylene	0.050	1.0									J
Methylene chloride	ND	2.0									

Qualifiers:

- | | | |
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Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P150810MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 101655						
Client ID: PBW	Batch ID: P15VW131	TestNo: EPA 8260B	Analysis Date: 8/10/2015	SeqNo: 2060677							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	ND	1.0									
n-Butylbenzene	0.090	1.0									J
n-Propylbenzene	0.050	1.0									J
Naphthalene	ND	1.0									
o-Xylene	ND	1.0									
sec-Butylbenzene	0.050	1.0									J
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	25.580		25.00		102	72	119				
Surr: 4-Bromofluorobenzene	24.910		25.00		99.6	76	119				
Surr: Dibromofluoromethane	26.330		25.00		105	85	115				
Surr: Toluene-d8	25.720		25.00		103	81	120				

Qualifiers:

- | | | |
|--|--|--|
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CLIENT: CH2MHill
Work Order: N016534
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID: P150811LCS	SampType: LCS	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 101660
Client ID: LCSW	Batch ID: P15VW132	TestNo: EPA 8260B		Analysis Date: 8/11/2015	SeqNo: 2060795

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	20.720	1.0	20.00	0	104	66	128				
Trichloroethene	20.610	1.0	20.00	0	103	70	127				
Surr: 1,2-Dichloroethane-d4	24.250		25.00		97.0	72	119				
Surr: 4-Bromofluorobenzene	26.290		25.00		105	76	119				
Surr: Dibromofluoromethane	23.550		25.00		94.2	85	115				
Surr: Toluene-d8	25.450		25.00		102	81	120				

Sample ID: P150811LCS D	SampType: LCS D	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 101660
Client ID: LCSS02	Batch ID: P15VW132	TestNo: EPA 8260B		Analysis Date: 8/11/2015	SeqNo: 2060796

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	20.510	1.0	20.00	0	103	66	128	20.72	1.02	20	
Trichloroethene	20.760	1.0	20.00	0	104	70	127	20.61	0.725	20	
Surr: 1,2-Dichloroethane-d4	24.060		25.00		96.2	72	119		0		
Surr: 4-Bromofluorobenzene	26.550		25.00		106	76	119		0		
Surr: Dibromofluoromethane	23.740		25.00		95.0	85	115		0		
Surr: Toluene-d8	25.800		25.00		103	81	120		0		

Sample ID: P150811MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 101660
Client ID: PBW	Batch ID: P15VW132	TestNo: EPA 8260B		Analysis Date: 8/11/2015	SeqNo: 2060797

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	0.170	1.0									J
Trichloroethene	ND	1.0									
Surr: 1,2-Dichloroethane-d4	23.660		25.00		94.6	72	119				
Surr: 4-Bromofluorobenzene	25.060		25.00		100	76	119				
Surr: Dibromofluoromethane	24.370		25.00		97.5	85	115				
Surr: Toluene-d8	25.140		25.00		101	81	120				

Qualifiers:

- | | | |
|--|--|--|
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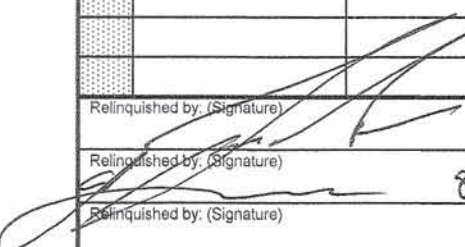


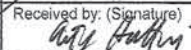

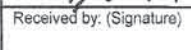
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Advanced Technology Laboratories
 3151 W. Post Road
 Las Vegas, NV 89118
 Tel: 702-307-2659 Fax: 702-307-2691
 Marlon Cartin [marlon@ati-labs.com]

CHAIN OF CUSTODY RECORD

DATE: 8/6/15
 PAGE: 1 OF 1

150 IR#

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Defibaugh				CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site				P.O. NO.:					
ADDRESS: 1100 Town & Country Road				PROJECT CONTACT: James Dye				QUOTE NO.:					
CITY: Orange, CA 92868				SAMPLER(S): (SIGNATURE) 				LAB USE ONLY <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>					
TEL: 714-560-4802	FAX: 714-560-4601	E-MAIL: james_dye@kindermorgan.com											
TURNAROUND TIME <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS				REQUESTED ANALYSIS									
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL <u> </u> / <u> </u> / <u> </u>													
SPECIAL INSTRUCTIONS Report to D. Jablonski/CH2M HILL, cc: KMEP Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195 "J" flags required/Use lowest possible detection limit - all methods.													
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING		MAT- RIX	NO. OF CONT.	TPH - g (8015M)	TPH-tp (8015M)	VOCs, Full List (8260B)	Comments			
			DATE	TIME									
	INF- 08-06	Influent	8/6/15	1345	WW	8	X	X	X	N016534 - 01			
										Monthly			
Relinquished by: (Signature) 						Received by: (Signature) 						Date: 8-6-15	Time: 3:50 PM
Relinquished by: (Signature) 						Received by: (Signature) 						Date: 8-7-15	Time: 0906
Relinquished by: (Signature) 						Received by: (Signature) 						Date:	Time:

ASSET Laboratories

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

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

Cooler Received/Opened On: 8/7/2015 Workorder: N016534
 Rep sample Temp (Deg C): 1.5 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 2439 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? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Was Client notified? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments

Checklist Completed B JPG  08/07/15

Reviewed By:  08/10/15

ASSET Laboratories

WORK ORDER Summary

07-Aug-15

WorkOrder: N016534

Client ID: CH2HI03

Project: SFPP - Norwalk Site

QC Level: RTNE

Date Received: 8/7/2015

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

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N016534-001A	INF-08-06	8/6/2015 1:45:00 PM	8/14/2015	Wastewater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
			8/14/2015		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N016534-001B			8/14/2015		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/14/2015		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			8/14/2015		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N016534-002A	FOLDER		8/14/2015	Folder	Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB



800-322-5555 www.gso.com

Ship From

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

Tracking #: 528852439

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



40953379

Print Date: 8/6/2015 4:24 PM

LABEL INSTRUCTIONS:

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

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

September 23, 2015

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

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

TEL:
FAX:

Workorder No.: N016929

RE: SFPP-Norwalk Site

Attention: Dan Jablonski

Enclosed are the results for sample(s) received on September 16, 2015 by ASSET Laboratories .
The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in
accordance with the applicable laboratory certifications.

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

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

Sincerely,



Glen Gesmundo
QA Manager

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



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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Project: SFPP-Norwalk Site
Lab Order: N016929

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 8015B_DRO/ORO:

Surrogate p-Terphenyl recovery was outside recovery limit for sample possibly due to matrix interference. Sample contains high concentration possibly interfering with surrogate recovery.

Analytical Comments for EPA 8260B:

Dilution was necessary due to high concentration of some analytes.



CLIENT: CH2MHill
Project: SFPP-Norwalk Site
Lab Order: N016929
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N016929-001A	INF-09-15	Wastewater	9/15/2015 1:15:00 PM	9/16/2015	9/23/2015
N016929-001B	INF-09-15	Wastewater	9/15/2015 1:15:00 PM	9/16/2015	9/23/2015



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 23-Sep-15

CLIENT: CH2MHill
 Lab Order: N016929
 Project: SFPP-Norwalk Site
 Lab ID: N016929-001

Client Sample ID: INF-09-15
 Collection Date: 9/15/2015 1:15:00 PM
 Matrix: WASTEWATER

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

EPA 8260B

RunID: MS5_150922A	QC Batch: P15VW167	PrepDate	Analyst: QBM			
1,1,1,2-Tetrachloroethane	ND	0.13	2.0	ug/L	2	9/22/2015 02:27 PM
1,1,1-Trichloroethane	ND	0.14	2.0	ug/L	2	9/22/2015 02:27 PM
1,1,2,2-Tetrachloroethane	ND	0.062	2.0	ug/L	2	9/22/2015 02:27 PM
1,1,2-Trichloroethane	ND	0.12	2.0	ug/L	2	9/22/2015 02:27 PM
1,1-Dichloroethane	ND	0.044	1.0	ug/L	2	9/22/2015 02:27 PM
1,1-Dichloroethene	ND	0.17	2.0	ug/L	2	9/22/2015 02:27 PM
1,1-Dichloropropene	ND	0.088	2.0	ug/L	2	9/22/2015 02:27 PM
1,2,3-Trichlorobenzene	ND	0.11	2.0	ug/L	2	9/22/2015 02:27 PM
1,2,3-Trichloropropane	ND	0.12	2.0	ug/L	2	9/22/2015 02:27 PM
1,2,4-Trichlorobenzene	ND	0.12	2.0	ug/L	2	9/22/2015 02:27 PM
1,2,4-Trimethylbenzene	4800	4.2	100	ug/L	100	9/22/2015 03:42 PM
1,2-Dibromo-3-chloropropane	ND	0.094	4.0	ug/L	2	9/22/2015 02:27 PM
1,2-Dibromoethane	ND	0.11	2.0	ug/L	2	9/22/2015 02:27 PM
1,2-Dichlorobenzene	ND	0.080	2.0	ug/L	2	9/22/2015 02:27 PM
1,2-Dichloroethane	ND	0.13	1.0	ug/L	2	9/22/2015 02:27 PM
1,2-Dichloropropane	ND	0.12	2.0	ug/L	2	9/22/2015 02:27 PM
1,3,5-Trimethylbenzene	1400	1.5	100	ug/L	100	9/22/2015 03:42 PM
1,3-Dichlorobenzene	ND	0.11	2.0	ug/L	2	9/22/2015 02:27 PM
1,3-Dichloropropane	ND	0.080	2.0	ug/L	2	9/22/2015 02:27 PM
1,4-Dichlorobenzene	ND	0.060	2.0	ug/L	2	9/22/2015 02:27 PM
2,2-Dichloropropane	ND	0.052	2.0	ug/L	2	9/22/2015 02:27 PM
2-Butanone	ND	0.97	20	ug/L	2	9/22/2015 02:27 PM
2-Chlorotoluene	ND	0.080	2.0	ug/L	2	9/22/2015 02:27 PM
4-Chlorotoluene	ND	0.072	2.0	ug/L	2	9/22/2015 02:27 PM
4-Isopropyltoluene	23	0.044	2.0	ug/L	2	9/22/2015 02:27 PM
4-Methyl-2-pentanone	ND	0.34	20	ug/L	2	9/22/2015 02:27 PM
Acetone	11	2.1	20	J ug/L	2	9/22/2015 02:27 PM
Benzene	3200	3.6	100	ug/L	100	9/22/2015 03:42 PM
Bromobenzene	ND	0.086	2.0	ug/L	2	9/22/2015 02:27 PM
Bromochloromethane	ND	0.44	2.0	ug/L	2	9/22/2015 02:27 PM
Bromodichloromethane	ND	0.062	2.0	ug/L	2	9/22/2015 02:27 PM
Bromoform	ND	0.65	2.0	ug/L	2	9/22/2015 02:27 PM
Bromomethane	ND	0.65	2.0	ug/L	2	9/22/2015 02:27 PM
Carbon disulfide	0.78	0.050	2.0	J ug/L	2	9/22/2015 02:27 PM
Carbon tetrachloride	ND	0.11	1.0	ug/L	2	9/22/2015 02:27 PM
Chlorobenzene	ND	0.072	2.0	ug/L	2	9/22/2015 02:27 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: 23-Sep-15

CLIENT: CH2MHill
Lab Order: N016929
Project: SFPP-Norwalk Site
Lab ID: N016929-001

Client Sample ID: INF-09-15
Collection Date: 9/15/2015 1:15:00 PM
Matrix: WASTEWATER

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

EPA 8260B

RunID: MS5_150922A	QC Batch: P15VW167	PrepDate	Analyst: QBM			
Chloroethane	ND	0.20	2.0	ug/L	2	9/22/2015 02:27 PM
Chloroform	ND	0.072	2.0	ug/L	2	9/22/2015 02:27 PM
Chloromethane	ND	0.23	2.0	ug/L	2	9/22/2015 02:27 PM
cis-1,2-Dichloroethene	ND	0.10	2.0	ug/L	2	9/22/2015 02:27 PM
cis-1,3-Dichloropropene	ND	0.088	2.0	ug/L	2	9/22/2015 02:27 PM
Di-isopropyl ether	15	0.034	2.0	ug/L	2	9/22/2015 02:27 PM
Dibromochloromethane	ND	0.14	2.0	ug/L	2	9/22/2015 02:27 PM
Dibromomethane	ND	0.34	2.0	ug/L	2	9/22/2015 02:27 PM
Dichlorodifluoromethane	ND	0.14	2.0	ug/L	2	9/22/2015 02:27 PM
Ethyl tert-butyl ether	ND	0.078	2.0	ug/L	2	9/22/2015 02:27 PM
Ethylbenzene	1800	3.6	100	ug/L	100	9/22/2015 03:42 PM
Freon-113	ND	0.15	2.0	ug/L	2	9/22/2015 02:27 PM
Hexachlorobutadiene	ND	0.21	2.0	ug/L	2	9/22/2015 02:27 PM
Isopropylbenzene	97	0.068	2.0	ug/L	2	9/22/2015 02:27 PM
m,p-Xylene	10000	2.4	100	ug/L	100	9/22/2015 03:42 PM
Methylene chloride	ND	0.56	4.0	ug/L	2	9/22/2015 02:27 PM
MTBE	820	0.62	10	ug/L	10	9/22/2015 03:17 PM
n-Butylbenzene	84	0.062	2.0	ug/L	2	9/22/2015 02:27 PM
n-Propylbenzene	400	0.18	10	ug/L	10	9/22/2015 03:17 PM
Naphthalene	1700	4.8	100	ug/L	100	9/22/2015 03:42 PM
o-Xylene	3900	4.2	100	ug/L	100	9/22/2015 03:42 PM
sec-Butylbenzene	37	0.050	2.0	ug/L	2	9/22/2015 02:27 PM
Styrene	ND	0.070	2.0	ug/L	2	9/22/2015 02:27 PM
Tert-amyl methyl ether	7.7	0.078	2.0	ug/L	2	9/22/2015 02:27 PM
Tert-Butanol	ND	0.60	10	ug/L	2	9/22/2015 02:27 PM
tert-Butylbenzene	ND	0.060	2.0	ug/L	2	9/22/2015 02:27 PM
Tetrachloroethene	ND	0.33	2.0	ug/L	2	9/22/2015 02:27 PM
Toluene	6500	4.2	200	ug/L	100	9/22/2015 03:42 PM
trans-1,2-Dichloroethene	ND	0.14	2.0	ug/L	2	9/22/2015 02:27 PM
trans-1,3-Dichloropropene	ND	0.078	2.0	ug/L	2	9/22/2015 02:27 PM
Trichloroethene	ND	0.25	2.0	ug/L	2	9/22/2015 02:27 PM
Trichlorofluoromethane	ND	0.062	2.0	ug/L	2	9/22/2015 02:27 PM
Vinyl chloride	ND	0.19	1.0	ug/L	2	9/22/2015 02:27 PM
Xylenes, Total	14000	150	200	ug/L	100	9/22/2015 03:42 PM
Surr: 1,2-Dichloroethane-d4	103	0	72-119	%REC	10	9/22/2015 03:17 PM
Surr: 1,2-Dichloroethane-d4	102	0	72-119	%REC	100	9/22/2015 03:42 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: 23-Sep-15

CLIENT: CH2MHill
Lab Order: N016929
Project: SFPP-Norwalk Site
Lab ID: N016929-001

Client Sample ID: INF-09-15
Collection Date: 9/15/2015 1:15:00 PM
Matrix: WASTEWATER

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

EPA 8260B

RunID: MS5_150922A	QC Batch: P15VW167			PrepDate	Analyst: QBM		
Surr: 1,2-Dichloroethane-d4	107	0	72-119	%REC	2	9/22/2015 02:27 PM	
Surr: 4-Bromofluorobenzene	110	0	76-119	%REC	2	9/22/2015 02:27 PM	
Surr: 4-Bromofluorobenzene	99.2	0	76-119	%REC	10	9/22/2015 03:17 PM	
Surr: 4-Bromofluorobenzene	102	0	76-119	%REC	100	9/22/2015 03:42 PM	
Surr: Dibromofluoromethane	103	0	85-115	%REC	10	9/22/2015 03:17 PM	
Surr: Dibromofluoromethane	104	0	85-115	%REC	100	9/22/2015 03:42 PM	
Surr: Dibromofluoromethane	105	0	85-115	%REC	2	9/22/2015 02:27 PM	
Surr: Toluene-d8	101	0	81-120	%REC	100	9/22/2015 03:42 PM	
Surr: Toluene-d8	99.1	0	81-120	%REC	2	9/22/2015 02:27 PM	
Surr: Toluene-d8	102	0	81-120	%REC	10	9/22/2015 03:17 PM	

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

RunID: GC3_150918A	QC Batch: 51449			PrepDate	9/17/2015	Analyst: MDM
TPH-Diesel (C13-C22)	79000	1500	2500	ug/L	100	9/18/2015 11:01 AM
TPH-Oil (C23-C36)	2700	14	25	ug/L	1	9/18/2015 12:38 AM
Surr: Octacosane	100	0	26-152	%REC	1	9/18/2015 12:38 AM
Surr: p-Terphenyl	150	0	57-132	S %REC	1	9/18/2015 12:38 AM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: GC4_150916A	QC Batch: E15VW056			PrepDate	Analyst: QBM		
TPH-Gasoline (C4-C12)	50000	160	500	ug/L	10	9/16/2015 06:29 PM	
Surr: Chlorobenzene - d5	79.5	0	74-138	%REC	10	9/16/2015 06:29 PM	

TOTAL TPH

EPA 8015B

RunID: GC3_150918A	QC Batch: R102181			PrepDate	Analyst: MDM		
Total TPH	129000	16	50	ug/L	1	9/18/2015	

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



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CLIENT: CH2MHill
Work Order: N016929
Project: SFPP-Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

Sample ID MB-51449	SampType: MBLK	TestCode: 8015_W_FP_	Units: ug/L	Prep Date: 9/17/2015	RunNo: 102181						
Client ID: PBW	Batch ID: 51449	TestNo: EPA 8015B EPA 3510C		Analysis Date: 9/17/2015	SeqNo: 2085915						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Diesel (C13-C22)	ND	25									
TPH-Oil (C23-C36)	ND	25									
Surr: Octacosane	71.988		80.00		90.0	26	152				
Surr: p-Terphenyl	79.160		80.00		99.0	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 |



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CLIENT: CH2MHill
Work Order: N016929
Project: SFPP-Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_SFPPTOT

Sample ID MB-R102181	SampType: MBLK	TestCode: 8015_W_SFP	Units: ug/L	Prep Date:	RunNo: 102181						
Client ID: PBW	Batch ID: R102181	TestNo: EPA 8015B		Analysis Date: 9/17/2015	SeqNo: 2085927						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total TPH	ND	50									

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N016929
Project: SFPP-Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

Sample ID E150916LCS	SampType: LCS	TestCode: 8015GAS_W	Units: ug/L	Prep Date:	RunNo: 102155						
Client ID: LCSW	Batch ID: E15VW056	TestNo: EPA 8015B		Analysis Date: 9/16/2015	SeqNo: 2084847						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	801.000	50	1000	0	80.1	67	136				
Surr: Chlorobenzene - d5	45253.000		50000		90.5	74	138				

Sample ID E150916MB2	SampType: MBLK	TestCode: 8015GAS_W	Units: ug/L	Prep Date:	RunNo: 102155						
Client ID: PBW	Batch ID: E15VW056	TestNo: EPA 8015B		Analysis Date: 9/16/2015	SeqNo: 2084849						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	29.000	50									J
Surr: Chlorobenzene - d5	50547.000		50000		101	74	138				

Sample ID N016928-003AMS	SampType: MS	TestCode: 8015GAS_W	Units: ug/L	Prep Date:	RunNo: 102155						
Client ID: ZZZZZ	Batch ID: E15VW056	TestNo: EPA 8015B		Analysis Date: 9/16/2015	SeqNo: 2084854						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	890.000	50	1000	30.00	86.0	67	136				
Surr: Chlorobenzene - d5	48320.000		50000		96.6	74	138				

Sample ID N016928-003AMSD	SampType: MSD	TestCode: 8015GAS_W	Units: ug/L	Prep Date:	RunNo: 102155						
Client ID: ZZZZZ	Batch ID: E15VW056	TestNo: EPA 8015B		Analysis Date: 9/16/2015	SeqNo: 2084855						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-Gasoline (C4-C12)	886.000	50	1000	30.00	85.6	67	136	890.0	0.450	30	
Surr: Chlorobenzene - d5	47905.000		50000		95.8	74	138		0	0	

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N016929
Project: SFPP-Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
P150922LCS	LCS	8260_WP_SF	ug/L		102251						
Client ID: LCSW	Batch ID: P15VW167	TestNo: EPA 8260B		Analysis Date: 9/22/2015	SeqNo: 2089722						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	21.110	1.0	20.00	0	106	81	129				
1,1,1-Trichloroethane	20.960	1.0	20.00	0	105	67	132				
1,1,2,2-Tetrachloroethane	21.160	1.0	20.00	0	106	63	128				
1,1,2-Trichloroethane	20.830	1.0	20.00	0	104	75	125				
1,1-Dichloroethane	20.160	0.50	20.00	0	101	69	133				
1,1-Dichloroethene	20.730	1.0	20.00	0	104	68	130				
1,1-Dichloropropene	20.500	1.0	20.00	0	103	73	132				
1,2,3-Trichlorobenzene	21.980	1.0	20.00	0	110	67	137				
1,2,3-Trichloropropane	20.440	1.0	20.00	0	102	73	124				
1,2,4-Trichlorobenzene	21.920	1.0	20.00	0	110	66	134				
1,2,4-Trimethylbenzene	20.740	1.0	20.00	0	104	74	132				
1,2-Dibromo-3-chloropropane	20.580	2.0	20.00	0	103	50	132				
1,2-Dibromoethane	20.780	1.0	20.00	0	104	80	121				
1,2-Dichlorobenzene	20.950	1.0	20.00	0	105	71	122				
1,2-Dichloroethane	20.000	0.50	20.00	0	100	69	132				
1,2-Dichloropropane	20.060	1.0	20.00	0	100	75	125				
1,3,5-Trimethylbenzene	20.840	1.0	20.00	0	104	74	131				
1,3-Dichlorobenzene	21.230	1.0	20.00	0	106	75	124				
1,3-Dichloropropane	20.220	1.0	20.00	0	101	73	126				
1,4-Dichlorobenzene	20.730	1.0	20.00	0	104	74	123				
2,2-Dichloropropane	21.550	1.0	20.00	0	108	69	137				
2-Butanone	192.460	10	200.0	0	96.2	49	136				
2-Chlorotoluene	20.870	1.0	20.00	0	104	73	126				
4-Chlorotoluene	20.860	1.0	20.00	0	104	74	128				
4-Isopropyltoluene	20.920	1.0	20.00	0	105	73	130				
4-Methyl-2-pentanone	201.710	10	200.0	0	101	58	134				
Acetone	162.860	10	200.0	0	81.4	40	135				
Benzene	20.780	1.0	20.00	0	104	81	122				
Bromobenzene	21.310	1.0	20.00	0	107	76	124				
Bromochloromethane	20.000	1.0	20.00	0	100	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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CLIENT: CH2MHill
Work Order: N016929
Project: SFPP-Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
P150922LCS	LCS	8260_WP_SF	ug/L		102251						
Client ID: LCSW	Batch ID: P15VW167	TestNo: EPA 8260B		Analysis Date: 9/22/2015	SeqNo: 2089722						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	21.400	1.0	20.00	0	107	76	121				
Bromoform	20.010	1.0	20.00	0	100	69	128				
Bromomethane	10.930	1.0	20.00	0	54.6	53	141				
Carbon disulfide	21.000	1.0	20.00	0	105	75	125				
Carbon tetrachloride	21.780	0.50	20.00	0	109	66	138				
Chlorobenzene	20.440	1.0	20.00	0	102	81	122				
Chloroethane	14.390	1.0	20.00	0	72.0	58	133				
Chloroform	20.490	1.0	20.00	0	102	69	128				
Chloromethane	16.010	1.0	20.00	0	80.1	56	131				
cis-1,2-Dichloroethene	20.350	1.0	20.00	0	102	72	126				
cis-1,3-Dichloropropene	20.690	1.0	20.00	0	103	69	131				
Di-isopropyl ether	19.980	1.0	20.00	0	99.9	70	130				
Dibromochloromethane	21.820	1.0	20.00	0	109	66	133				
Dibromomethane	21.110	1.0	20.00	0	106	76	125				
Dichlorodifluoromethane	20.260	1.0	20.00	0	101	53	153				
Ethyl tert-butyl ether	20.290	1.0	20.00	0	101	70	130				
Ethylbenzene	20.330	1.0	20.00	0	102	73	127				
Freon-113	20.510	1.0	20.00	0	103	75	125				
Hexachlorobutadiene	21.140	1.0	20.00	0	106	67	131				
Isopropylbenzene	20.840	1.0	20.00	0	104	75	127				
m,p-Xylene	40.790	1.0	40.00	0	102	76	128				
Methylene chloride	21.230	2.0	20.00	0	106	63	137				
MTBE	19.580	1.0	20.00	0	97.9	65	123				
n-Butylbenzene	21.240	1.0	20.00	0	106	69	137				
n-Propylbenzene	21.220	1.0	20.00	0	106	72	129				
Naphthalene	22.020	1.0	20.00	0	110	54	138				
o-Xylene	20.210	1.0	20.00	0	101	80	121				
sec-Butylbenzene	21.030	1.0	20.00	0	105	72	127				
Styrene	20.650	1.0	20.00	0	103	65	134				
Tert-amyl methyl ether	19.340	1.0	20.00	0	96.7	70	130				

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N016929
Project: SFPP-Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	SampType:	TestCode:	Units:	Prep Date:	RunNo:						
P150922LCS	LCS	8260_WP_SF	ug/L		102251						
Client ID:	Batch ID:	TestNo:			SeqNo:						
LCSW	P15VW167	EPA 8260B			2089722						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tert-Butanol	95.800	5.0	100.0	0	95.8	70	130				
tert-Butylbenzene	20.910	1.0	20.00	0	105	70	129				
Tetrachloroethene	20.560	1.0	20.00	0	103	66	128				
Toluene	21.420	2.0	20.00	0	107	77	122				
trans-1,2-Dichloroethene	20.800	1.0	20.00	0	104	63	137				
trans-1,3-Dichloropropene	21.210	1.0	20.00	0	106	59	135				
Trichloroethene	20.920	1.0	20.00	0	105	70	127				
Trichlorofluoromethane	24.080	1.0	20.00	0	120	57	129				
Vinyl chloride	20.800	0.50	20.00	0	104	50	134				
Xylenes, Total	61.000	2.0	60.00	0	102	75	125				
Surr: 1,2-Dichloroethane-d4	25.320		25.00		101	72	119				
Surr: 4-Bromofluorobenzene	24.820		25.00		99.3	76	119				
Surr: Dibromofluoromethane	25.710		25.00		103	85	115				
Surr: Toluene-d8	25.370		25.00		101	81	120				

Sample ID	SampType:	TestCode:	Units:	Prep Date:	RunNo:						
P150922LCSD	LCSD	8260_WP_SF	ug/L		102251						
Client ID:	Batch ID:	TestNo:			SeqNo:						
LCSS02	P15VW167	EPA 8260B			2089723						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	21.150	1.0	20.00	0	106	81	129	21.11	0.189	20	
1,1,1-Trichloroethane	20.600	1.0	20.00	0	103	67	132	20.96	1.73	20	
1,1,2,2-Tetrachloroethane	21.270	1.0	20.00	0	106	63	128	21.16	0.519	20	
1,1,2-Trichloroethane	20.390	1.0	20.00	0	102	75	125	20.83	2.13	20	
1,1-Dichloroethane	20.400	0.50	20.00	0	102	69	133	20.16	1.18	20	
1,1-Dichloroethene	20.460	1.0	20.00	0	102	68	130	20.73	1.31	20	
1,1-Dichloropropene	20.160	1.0	20.00	0	101	73	132	20.50	1.67	20	
1,2,3-Trichlorobenzene	21.740	1.0	20.00	0	109	67	137	21.98	1.10	20	
1,2,3-Trichloropropane	19.450	1.0	20.00	0	97.3	73	124	20.44	4.96	20	
1,2,4-Trichlorobenzene	21.570	1.0	20.00	0	108	66	134	21.92	1.61	20	
1,2,4-Trimethylbenzene	20.380	1.0	20.00	0	102	74	132	20.74	1.75	20	

Qualifiers:

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CLIENT: CH2MHill
Work Order: N016929
Project: SFPP-Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	P150922LCSD	SampType: LCSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 102251					
Client ID:	LCSS02	Batch ID:	P15VW167	TestNo:	EPA 8260B	Analysis Date:	9/22/2015	SeqNo:	2089723		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	20.130	2.0	20.00	0	101	50	132	20.58	2.21	20	
1,2-Dibromoethane	20.310	1.0	20.00	0	102	80	121	20.78	2.29	20	
1,2-Dichlorobenzene	20.890	1.0	20.00	0	104	71	122	20.95	0.287	20	
1,2-Dichloroethane	19.540	0.50	20.00	0	97.7	69	132	20.00	2.33	20	
1,2-Dichloropropane	19.320	1.0	20.00	0	96.6	75	125	20.06	3.76	20	
1,3,5-Trimethylbenzene	20.460	1.0	20.00	0	102	74	131	20.84	1.84	20	
1,3-Dichlorobenzene	21.010	1.0	20.00	0	105	75	124	21.23	1.04	20	
1,3-Dichloropropane	20.200	1.0	20.00	0	101	73	126	20.22	0.0990	20	
1,4-Dichlorobenzene	20.590	1.0	20.00	0	103	74	123	20.73	0.678	20	
2,2-Dichloropropane	20.790	1.0	20.00	0	104	69	137	21.55	3.59	20	
2-Butanone	191.120	10	200.0	0	95.6	49	136	192.5	0.699	20	
2-Chlorotoluene	20.420	1.0	20.00	0	102	73	126	20.87	2.18	20	
4-Chlorotoluene	20.690	1.0	20.00	0	103	74	128	20.86	0.818	20	
4-Isopropyltoluene	20.600	1.0	20.00	0	103	73	130	20.92	1.54	20	
4-Methyl-2-pentanone	199.090	10	200.0	0	99.5	58	134	201.7	1.31	20	
Acetone	165.420	10	200.0	0	82.7	40	135	162.9	1.56	20	
Benzene	20.310	1.0	20.00	0	102	81	122	20.78	2.29	20	
Bromobenzene	21.340	1.0	20.00	0	107	76	124	21.31	0.141	20	
Bromochloromethane	19.970	1.0	20.00	0	99.8	65	129	20.00	0.150	20	
Bromodichloromethane	20.690	1.0	20.00	0	103	76	121	21.40	3.37	20	
Bromoform	19.720	1.0	20.00	0	98.6	69	128	20.01	1.46	20	
Bromomethane	11.390	1.0	20.00	0	57.0	53	141	10.93	4.12	20	
Carbon disulfide	20.790	1.0	20.00	0	104	75	125	21.00	1.01	20	
Carbon tetrachloride	20.610	0.50	20.00	0	103	66	138	21.78	5.52	20	
Chlorobenzene	20.070	1.0	20.00	0	100	81	122	20.44	1.83	20	
Chloroethane	17.390	1.0	20.00	0	87.0	58	133	14.39	18.9	20	
Chloroform	20.230	1.0	20.00	0	101	69	128	20.49	1.28	20	
Chloromethane	15.640	1.0	20.00	0	78.2	56	131	16.01	2.34	20	
cis-1,2-Dichloroethene	20.400	1.0	20.00	0	102	72	126	20.35	0.245	20	
cis-1,3-Dichloropropene	20.330	1.0	20.00	0	102	69	131	20.69	1.76	20	

Qualifiers:

- | | | |
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CLIENT: CH2MHill
Work Order: N016929
Project: SFPP-Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
P150922LCSD	LCSD	8260_WP_SF	ug/L		102251						
Client ID	Batch ID	TestNo			SeqNo						
LCSS02	P15VW167	EPA 8260B			2089723						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-isopropyl ether	19.740	1.0	20.00	0	98.7	70	130	19.98	1.21	20	
Dibromochloromethane	21.730	1.0	20.00	0	109	66	133	21.82	0.413	20	
Dibromomethane	20.880	1.0	20.00	0	104	76	125	21.11	1.10	20	
Dichlorodifluoromethane	19.940	1.0	20.00	0	99.7	53	153	20.26	1.59	20	
Ethyl tert-butyl ether	19.890	1.0	20.00	0	99.4	70	130	20.29	1.99	20	
Ethylbenzene	20.100	1.0	20.00	0	101	73	127	20.33	1.14	20	
Freon-113	20.140	1.0	20.00	0	101	75	125	20.51	1.82	20	
Hexachlorobutadiene	20.790	1.0	20.00	0	104	67	131	21.14	1.67	20	
Isopropylbenzene	20.670	1.0	20.00	0	103	75	127	20.84	0.819	20	
m,p-Xylene	40.640	1.0	40.00	0	102	76	128	40.79	0.368	20	
Methylene chloride	21.170	2.0	20.00	0	106	63	137	21.23	0.283	20	
MTBE	19.550	1.0	20.00	0	97.8	65	123	19.58	0.153	20	
n-Butylbenzene	20.680	1.0	20.00	0	103	69	137	21.24	2.67	20	
n-Propylbenzene	20.490	1.0	20.00	0	102	72	129	21.22	3.50	20	
Naphthalene	21.420	1.0	20.00	0	107	54	138	22.02	2.76	20	
o-Xylene	19.980	1.0	20.00	0	99.9	80	121	20.21	1.14	20	
sec-Butylbenzene	20.440	1.0	20.00	0	102	72	127	21.03	2.85	20	
Styrene	20.300	1.0	20.00	0	102	65	134	20.65	1.71	20	
Tert-amyl methyl ether	18.670	1.0	20.00	0	93.4	70	130	19.34	3.53	20	
Tert-Butanol	94.250	5.0	100.0	0	94.2	70	130	95.80	1.63	20	
tert-Butylbenzene	20.490	1.0	20.00	0	102	70	129	20.91	2.03	20	
Tetrachloroethene	20.020	1.0	20.00	0	100	66	128	20.56	2.66	20	
Toluene	21.020	2.0	20.00	0	105	77	122	21.42	1.89	20	
trans-1,2-Dichloroethene	20.520	1.0	20.00	0	103	63	137	20.80	1.36	20	
trans-1,3-Dichloropropene	20.220	1.0	20.00	0	101	59	135	21.21	4.78	20	
Trichloroethene	19.920	1.0	20.00	0	99.6	70	127	20.92	4.90	20	
Trichlorofluoromethane	23.510	1.0	20.00	0	118	57	129	24.08	2.40	20	
Vinyl chloride	20.310	0.50	20.00	0	102	50	134	20.80	2.38	20	
Xylenes, Total	60.620	2.0	60.00	0	101	75	125	61.00	0.625	20	
Surr: 1,2-Dichloroethane-d4	24.830		25.00		99.3	72	119		0		

Qualifiers:

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Project: SFPP-Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID P150922LCSD	SampType: LCSD	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 102251						
Client ID: LCSS02	Batch ID: P15VW167	TestNo: EPA 8260B		Analysis Date: 9/22/2015	SeqNo: 2089723						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	24.970		25.00		99.9	76	119		0		
Surr: Dibromofluoromethane	25.470		25.00		102	85	115		0		
Surr: Toluene-d8	24.970		25.00		99.9	81	120		0		

Sample ID P150922MB3	SampType: MBLK	TestCode: 8260_WP_SF	Units: ug/L	Prep Date:	RunNo: 102251						
Client ID: PBW	Batch ID: P15VW167	TestNo: EPA 8260B		Analysis Date: 9/22/2015	SeqNo: 2089724						
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	0.150	1.0									J
1,2,3-Trichloropropane	ND	1.0									
1,2,4-Trichlorobenzene	0.130	1.0									J
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	0.020	1.0									J
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									

Qualifiers:

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

TestCode: 8260_WP_SFPP

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
P150922MB3	MBLK	8260_WP_SF	ug/L		102251						
Client ID: PBW	Batch ID: P15VW167	TestNo: EPA 8260B		Analysis Date: 9/22/2015	SeqNo: 2089724						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	0.040	1.0									J
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	0.060	1.0									J
Chloromethane	0.250	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	0.040	1.0									J
Methylene chloride	ND	2.0									

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 |



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

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

"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N016929
Project: SFPP-Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
P150922MB3	MBLK	8260_WP_SF	ug/L		102251						
Client ID: PBW	Batch ID: P15VW167	TestNo: EPA 8260B		Analysis Date: 9/22/2015	SeqNo: 2089724						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	ND	1.0									
n-Butylbenzene	0.090	1.0									J
n-Propylbenzene	ND	1.0									
Naphthalene	0.180	1.0									J
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	0.350	2.0									J
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	25.220		25.00		101	72	119				
Surr: 4-Bromofluorobenzene	24.750		25.00		99.0	76	119				
Surr: Dibromofluoromethane	25.710		25.00		103	85	115				
Surr: Toluene-d8	25.290		25.00		101	81	120				

Qualifiers:

- | | | |
|--|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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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: 9/15/15
 PAGE: 1 OF 1

5.6°C, 4.8°C, 4.3°C, 4.7°C; 1R#2

LABORATORY CLIENT: Kinder Morgan Energy Partners, Attn: Steve Defibaugh			CLIENT PROJECT NAME / NUMBER: SFPP - Norwalk Site			P.O. NO.:					
ADDRESS: 1100 Town & Country Road			PROJECT CONTACT: James Dye			QUOTE NO.:					
CITY: Orange, CA 92868			SAMPLER(S): (SIGNATURE) 			LAB USE ONLY: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>					
TEL: 714-560-4802	FAX: 714-560-4601	E-MAIL: james.dye@kindermorgan.com	REQUESTED ANALYSIS								
TURNAROUND TIME <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS											
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL ___/___/___			TPB - g, TPH-d, and TPH-oil (8015M) Full VOC+ Oxygenates List (8260B)								
SPECIAL INSTRUCTIONS Report to D. Jablonski/CH2M HILL, cc: KMEP Direct Bill KMEP/SFPP - Steve Defibaugh-ref. AFE# 81195 "J" flags required/Use lowest possible detection limit - all methods.											
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING		MAT- RIX	NO. OF CONT.				Comments	
			DATE	TIME							
	INF- 09-15	Influent	9/15/15	1315	WW	8	X	X	NO10929-1		
Relinquished by: (Signature) 				Received by: (Signature) 				Date: 9/15/15	Time: 4:00PM		
Relinquished by: (Signature) 				Received by: (Signature) 				Date: 9-16-15	Time: 0917		
Relinquished by: (Signature) 				Received by: (Signature) 				Date:	Time:		

ASSET Laboratories

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

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

Cooler Received/Opened On: 9/16/2015 Workorder: N016929
 Rep sample Temp (Deg C): 5.6/4.8/4.3/4.7 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 0876/0877/0878/0879 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? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Was Client notified? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments:

Checklist Completed By: MBC *MBC* 9/16/2015

Reviewed By: *gog* 09/17/15

ASSET Laboratories

WORK ORDER Summary

16-Sep-15

WorkOrder: N016929

Client ID: CH2HI03

Project: SFPP-Norwalk Site

QC Level: RTNE

Date Received: 9/16/2015

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

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N016929-001A	INF-09-15	9/15/2015 1:15:00 PM	9/23/2015	Wastewater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
			9/23/2015		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N016929-001B			9/23/2015		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/23/2015		EPA 8015B	TPH EXTRACTABLE BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			9/23/2015		EPA 8015B	Total TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N016929-002A	FOLDER		9/23/2015	Folder	Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB



800-322-5555 www.gso.com

Ship From

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

Tracking #: 529280879

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



42446214

Print Date: 9/15/2015 5:17 PM

Package 4 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.



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Ship From

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

Tracking #: 529280878

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

42446213

Print Date: 9/15/2015 5:17 PM

Package 3 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.



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Ship From

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

Tracking #: 529280877

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

42446212

Print Date: 9/15/2015 5:17 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.



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

Tracking #: 529280876

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

42446211

Print Date: 9/15/2015 5:17 PM

Package 1 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.