

REPORT

Third Quarter 2016
Remediation Progress Report
SFPP Norwalk Pump Station
Norwalk, California

Prepared for

Kinder Morgan Energy Partners, L.P.

October 19, 2016



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



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Acronyms and Abbreviations

| | |
|-----------|---|
| µg/L | micrograms per liter |
| 1,2-DCA | 1,2-dichloroethane |
| Air Tech | Air Technology Laboratories |
| Asset | Asset Laboratories (formerly Advanced Technology Laboratories) |
| ASTM | ASTM International |
| BTEX | benzene, toluene, ethylbenzene, and total xylenes |
| CH2M | CH2M HILL Engineers, Inc. |
| DAF | dissolved air flotation |
| EPA | U.S. Environmental Protection Agency |
| GWE | groundwater extraction |
| GWTS | groundwater treatment system |
| 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 |
| RAB | Restoration Advisory Board |
| RWQCB | California Regional Water Quality Control Board, Los Angeles Region |
| SCAQMD | South Coast Air Quality Management District |
| scfm | standard cubic feet per minute |
| SF6 | sulfur hexafluoride |
| SFPP | SFPP, L.P., an operating partnership of Kinder Morgan Energy Partners, L.P. |
| SVE | soil vapor extraction |
| TBA | tertiary butyl alcohol |
| TFE | total fluids extraction |
| TPH | total petroleum hydrocarbons |
| TPH-d | total petroleum hydrocarbons quantified as diesel |
| TPH-g | total petroleum hydrocarbons quantified as gasoline |
| TPH-o | total petroleum hydrocarbons quantified as oil |
| TPH-total | total petroleum hydrocarbons quantified as gasoline, diesel, and oil |
| VOC | volatile organic compound |
| WSB | West Side Barrier |

Introduction

CH2M HILL Engineers, Inc. (CH2M) has prepared this report on behalf of SFPP, L.P. (SFPP), an operating partnership of Kinder Morgan Energy Partners, L.P., to summarize remediation activities performed at the former SFPP Norwalk Pump Station located within the Defense Fuel Support Point Norwalk, at 15306 Norwalk Boulevard, Norwalk, California (the site; Figure 1) during the third quarter 2016 reporting period.

This progress report is submitted pursuant to a request from the California Regional Water Quality Control Board, Los Angeles Region (RWQCB) in its letter dated October 25, 2006 (RWQCB, 2006). Additional site background information can be found in the report titled, *Conceptual Site Model and Proposed Alternate Interim Remedy for Soil, Groundwater, and LNAPL* (CH2M, 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 2016 with documentation of the following tasks:

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

The remediation activities performed from July through September 2016 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 top-loading pumps, 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. SFPP also operates a horizontal biosparge system to enhance mass removal of free-phase and dissolved-phase hydrocarbon constituents in the south-central area of the site. Further discussion of this system is provided below.

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 system is conducted in accordance with Permits to Construct (Application Nos. 569588 and 567723, respectively; ID 110835) issued by the South Coast Air Quality Management District (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; Order No. R4-2011-0095).

In August 2014, SFPP completed installation of a horizontal biosparge well (BS-01) in the south-central area of the site. Construction of the biosparge well is documented in the report titled, *Horizontal Biosparge Well and Soil Vapor Monitoring Probe Completion Report* (CH2M, 2015). Installation of the associated mechanical and electrical equipment was completed in December 2015. The biosparge system injects ambient air into the horizontal biosparge well, via a rotary screw air compressor, at a maximum design rate of approximately 500 standard cubic feet per minute (scfm). SFPP's SVE system has an interlock that ensures the biosparge system cannot operate unless the SVE system is operating. Operation of the SVE system reduces the potential for off-gassing of VOCs during biosparge operations. Pilot testing commenced on January 6, 2016, and is anticipated to continue for approximately 1 year in order to evaluate the feasibility of system expansion. Soil vapor and groundwater data collected as part of the pilot testing will be submitted to the RWQCB and Restoration Advisory Board (RAB) under separate cover. 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 2016. The remediation system layout is presented in Figure 2.

Operations and Maintenance

During the third quarter 2016 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, the SVE system, and the horizontal biosparge system.
- Completed the installation of a new dissolved air flotation (DAF) tank/OWS, and associated piping and concrete containment pad.
- Performed ongoing weekly maintenance on the GWTS after restart on September 7, 2016.

The remediation systems operated during the third quarter 2016 with the following exceptions:

- The GWTS, SVE, and biosparging systems were turned off on June 24, 2016, to facilitate collection of biosparge pilot test groundwater monitoring data. The SVE and biosparging systems were restarted on July 1, 2016. The GWTS remained offline for installation of the new DAF/OWS. The GWTS was restarted on September 7, 2016.
- The SVE and biosparging systems were shut down due to an SVE low air pressure alarm on August 9, 2016. The alarm was reset and the system was restarted on August 10, 2016.
- The SVE and biosparging systems were shut down due to a power outage on August 11, 2016. The systems were restarted on August 12, 2016.
- The SVE and biosparging systems were turned off on August 19, 2016, to facilitate collection of biosparge pilot test groundwater monitoring data. The systems were restarted on August 24, 2016.
- The SVE and biosparging systems were shut down due to a power outage on August 26, 2016. The systems were restarted later that day.
- The SVE and biosparging systems were shut down due to an SVE low air pressure alarm on September 5, 2016. The alarm was reset, a blown fuse was replaced, and the systems were restarted on September 6, 2016.
- The GWTS, SVE, and biosparging systems were turned off on September 27, 2016, to facilitate gauging and sampling activities for the second semiannual groundwater monitoring event. The SVE and biosparge systems were restarted on October 7, 2016. The GWTS was restarted on October 11, 2016.

During this reporting period, SVE and biosparge 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 2016, the SVE and biosparging systems were operational 87 percent of the time (98 percent of the time excluding planned shutdowns), and the GWTS operated 25 percent of the time (100 percent of the time excluding planned shutdowns). The low uptime for the GWTS was due to the planned installation of the new DAF/OWS system. Table 2 presents the SVE system operations summary. Extracted vapor photoionization detector (PID) measurements collected during the third quarter 2016 are summarized in Table 3. Extracted vapor analytical results for the third quarter 2016 are summarized in Table 4. The groundwater remediation system operation activities for the third quarter 2016 are summarized in Table 5. The extracted groundwater analytical results for the third quarter 2016 are summarized in Table 6. Table 7 presents the biosparge system operations summary.

Historical (post-2007) gauging results of select TFE and SVE wells are provided in Table 8. 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 2016 when the systems were in operation. During the third quarter 2016, influent vapor samples were collected on July 7, August 2, and September 7, 2016. Influent water samples were collected on September 20, 2016, after installation of the new DAF/OWS and once the GWTS was operating. The water samples were delivered to Asset Laboratories (Asset; formerly Advanced Technology Laboratories) of Las Vegas, Nevada, for analysis. Asset 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
- VOCs using U.S. Environmental Protection Agency (EPA) Method TO-15
- Total VOCs using EPA Method TO-3

Asset analyzed the water samples for the following:

- Total petroleum hydrocarbons (TPH) quantified as gasoline (TPH-g), TPH quantified as diesel (TPH-d), and TPH quantified as oil (TPH-o) (collectively referred to as TPH-total) using 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 30,403 pounds during the third quarter 2016. A significant increase in mass removal was observed during the first and second quarters of 2016 due to higher influent concentrations resulting from operation of the horizontal biosparge system. During the third quarter 2016, influent concentrations declined to less than 1,000 parts per million by volume (ppmv), resulting in mass removal quantities similar to those reported in the second half of 2015. Since SVE implementation in September 1995, the cumulative mass of VOCs removed was 3,472,430 pounds (Table 2). The cumulative mass removed by SVE does not include the mass removed by naturally occurring in situ biodegradation.

A total of 217,956 gallons of groundwater was extracted during the third quarter 2016 (Table 5). No water was extracted from the WSB area during the third quarter 2016. Approximately 97.6 million gallons of groundwater has been extracted from the south-central, southeastern, and WSB areas since GWTS operations first began in 1996.

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

No free product accumulated in the product holding tank during the third quarter 2016. Since 1995, a total of 14,097 gallons of product has been removed by TFE, vacuum truck, or manual bailing operations. The estimated mass removal (pounds) of hydrocarbons by the GWTS is shown in Table 5. Mass removal estimates between 1996 and 2005 are based on benzene, toluene, ethylbenzene, and total xylene (BTEX) and MTBE concentrations in the groundwater influent (TPH data were not available) and total volume of extracted groundwater. Mass removal estimates between 2006 and 2011 are based on groundwater influent concentrations of TPH-g and TPH quantified as fuel product, and the total volume of extracted groundwater. Mass removal estimates between 2012 and 2016 are based on groundwater influent TPH-total concentrations (TPH-total includes TPH-g, TPH-d, and TPH-o) and the total volume of extracted groundwater. Since GWE first began in 1996, hydrocarbon mass removed by the GWTS is estimated to be 19,364 pounds. During the third quarter 2016, the mass removal of hydrocarbons was estimated to be 7.4 pounds. This represents a significant decrease in mass removal since the second quarter 2016, when the mass removed was 253 pounds. The decrease is primarily due to lower uptime of the GWTS during the third quarter 2016; the lower uptime is a result of the DAF/OWS installation as previously noted above. Table 6 shows the extracted groundwater analytical results for the sample collected on September 20, 2016. As shown in the table, the TPH concentration has declined by an order of magnitude since the second quarter 2016, and is at an all-time low since total TPH was first measured in 2012. The lower TPH concentrations at the influent are a direct result of continued biosparge operations in the south-central area.

The biosparge system operated for 1,793 hours in the third quarter 2016 (Table 7). The biosparge system flow (air injection) rate ranged from 120 scfm (upon startup events) to a maximum of 559 scfm during the third quarter 2016.

System Evaluation and Optimization

During the third quarter 2016, all offsite SVE well valves have been fully open to ensure maximum vapor extraction from the offsite area; onsite SVE well valves were 50 percent open to optimize SVE system operation and compliance. Since August 2016, SVE influent concentrations have declined to less than 1,000 ppmv; therefore, in the fourth quarter 2016, operation of the SVE system will include more onsite wells in the fully open position to increase influent concentrations and optimize SVE system performance.

As previously stated in Sections 3 and 4, the GWTS was offline for most of the third quarter 2016 to facilitate installation of the new DAF/OWS system. The DAF/OWS system was successfully installed and brought online on September 7, 2016. The GWTS was then shut down on September 27, 2016, to allow groundwater levels to recover to static conditions prior to sitewide gauging for the second semiannual groundwater monitoring event (scheduled for early October). The GWTS was restarted on October 11, 2016, and will continue to operate during the fourth quarter 2016 for hydraulic control and product recovery in the south-central and southeastern areas. TFE pump inlet depths will be adjusted, as needed, to optimize GWE and product recovery.

The first semiannual 2016 groundwater monitoring event in the WSB region occurred during the second quarter 2016. 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 during routine semiannual groundwater monitoring events; the WSB system will be restarted if necessary.

As shown in Table 8, measurable free product was observed in seven remediation wells during the first semiannual groundwater monitoring event (conducted during the second quarter of 2016). Of these, one well (GMW-36) in the southeastern area had measureable product; the remaining six wells (GMW-10, GMW-22, GMWO-11, GMW-O-12, GMW-O-21, and MW-O-2) with measurable product are located in the south-central area. Up to 6.49 feet of measurable product was observed in offsite well GMW-O-12 on April 11, 2016. It is believed that increased product thicknesses, previously observed, are indicative of declining water levels across the site (Figure 3). However, during recent groundwater monitoring conducted in August 2016 (for pilot test data collection), measurable free product was observed in only three remediation wells in the south-central area (GMW-10, GMW-O-11, and GMW-O-12). The product thicknesses ranged from 0.01 foot in GMW-O-11 to 2.49 feet in GMW-O-12. As noted above, approximately 6.5 feet of measurable product had been observed in GMW-O-12 during April 2016. The substantial decline in measurable product in the south-central area is directly attributed to biosparge system operations. Biosparge system operations will continue during the fourth quarter 2016. Air injection rates will be optimized to ensure adequate destruction efficiency of extracted vapors by the SVE system.

Planned Fourth Quarter 2016 Activities

During the fourth quarter 2016, SFPP plans to continue to focus remedial efforts on the south-central and southeastern areas. The following maintenance and other activities are planned to be completed during the fourth quarter 2016:

- Continue weekly maintenance and monitoring of the south-central and southeastern SVE and TFE/GWE treatment systems, and horizontal biosparge system.
- Measure individual well vapor concentrations.
- Collect and analyze system influent vapor and groundwater samples.
- Perform as-needed carbon changeouts of the LGAC vessels.
- Remove, inspect, and repair existing TFE/GWE pumps and associated discharge lines.
- Install pumps and associated equipment necessary for TFE at select wells with measurable free product.
- Continue to remove free product from wells without TFE pumps using manual bailing methods.
- Deliver new regenerative thermal oxidizer vapor extraction and treatment system, and complete installation.
- Continue 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). Soil vapor and groundwater data collected as part of the pilot testing will be submitted to the RWQCB and RAB under separate cover.

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 2016 will be described in the Fourth Quarter 2016 Remediation Progress Report, to be submitted by January 15, 2017.

Pilot testing of the horizontal biosparge system in the south-central area will continue in the fourth quarter 2016. A comprehensive evaluation report, which includes soil vapor and groundwater data collected as part of the pilot test since January 2016, will be prepared and submitted to the RWQCB in the first quarter 2017. A recommendation for system expansion will be included in the report.

References

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

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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 2016 | |
|-------------------|---------------------|-------------------|---|---------------------------------|---------------------------|--|---------|
| | | | | | | SVE/BS | TFE/GWE |
| South-Central | MW-SF-1 | 6/18/1990 | 78.93 | 25 - 40 | SVE | OFF | -- |
| | MW-SF-2 | 6/18/1990 | 78.53 | 25 - 40 | SVE; TFE | OFF | OFF |
| | MW-SF-3 | 6/18/1990 | 78.12 | 25 - 40 | SVE; TFE | OFF | OFF |
| | MW-SF-4 | 6/19/1990 | 79.38 | 25 - 40 | SVE | OFF | -- |
| | MW-SF-5 | 9/19/1990 | 79.74 | 23 - 38 | SVE | OFF | -- |
| | MW-SF-6 | 9/19/1990 | 76.80 | 25 - 40 | SVE; TFE | OFF | OFF |
| | MW-SF-9 | 6/15/1995 | 74.10 | -- | SVE | OFF | -- |
| | MW-SF-10 | 9/23/2003 | 76.53 | 10 - 30 | SVE | OFF | -- |
| | MW-SF-11 | 6/19/2007 | 78.56 | 20 - 40 | SVE; TFE | OFF | OFF |
| | MW-SF-12 | 6/18/2007 | 78.07 | 20 - 40 | SVE; TFE | OFF | OFF |
| | MW-SF-13 | 6/19/2007 | 73.40 | 20 - 40 | SVE; TFE | OFF | OFF |
| | MW-SF-14 | 6/21/2007 | 78.16 | 20 - 40 | SVE; TFE | OFF | OFF |
| | MW-SF-15 | 6/21/2007 | 78.27 | 20 - 40 | SVE; TFE | OFF | OFF |
| | MW-SF-16 | 6/20/2007 | 78.21 | 20 - 40 | SVE; TFE | OFF | OFF |
| | MW-SF-17 | -- | -- | -- | SVE | OFF | -- |
| | GMW-9 | 7/8/1991 | 77.16 | 20 - 50 | SVE; TFE | OFF | OFF |
| | GMW-10 | 7/8/1991 | N/A | 25 - 50 | SVE; TFE | OFF | OFF |
| | GMW-22 | 8/2/1991 | 77.24 | 25 - 60 | SVE; TFE | OFF | OFF |
| | GMW-24 | 8/5/1991 | 77.48 | 25 - 60 | SVE; TFE | OFF | OFF |
| | GMW-25 | 1/10/1992 | 78.14 | 20 - 50 | SVE; TFE | OFF | OFF |
| | GWR-3 | 1/10/1992 | 77.60 | 20 - 50 | SVE; TFE | OFF | OFF |
| | VEW-1 | 09/19/90 | -- | 5 - 25 | SVE | OFF | -- |
| | VEW-2 | 09/19/90 | -- | 5 - 25 | SVE | OFF | -- |
| | MW-O-1 | 1/22/1991 | 75.48 | 25 - 40 | SVE; TFE | OFF | OFF |
| | MW-O-2 | 1/23/1991 | 71.90 | 25 - 40 | SVE; TFE | OFF | OFF |
| | GMW-O-11 | 5/20/1992 | 74.17 | 20 - 50 | SVE; TFE | OFF | OFF |
| | GMW-O-12 | 5/21/1992 | 73.49 | 20 - 50 | SVE | OFF | -- |
| | GMW-O-20 | 6/15/1995 | 73.32 | -- | SVE; TFE | OFF | OFF |
| | GMW-O-21 | 10/1/1997 | 71.43 | 26 - 46 | TFE | -- | OFF |
| | GMW-O-23 | 6/25/2007 | 73.63 | 20 - 40 | SVE; TFE | OFF | OFF |
| | MW-18 (MID) | 6/10/1991 | 75.67 | 50 - 60 | SVE | OFF | -- |
| | HW-1 | 09/06/92 | -- | -- | SVE | OFF | -- |
| | HW-2 | 09/06/92 | -- | -- | SVE | OFF | -- |
| BS-01 | 08/27/14 | 75.06 | -- | BIOSPARGE | OFF | -- | |
| Southeastern | GMW-O-15 | 4/19/1994 | 74.23 | 20 - 50 | SVE; TFE | OFF | OFF |
| | GMW-O-18 | 7/25/1994 | 74.36 | 21 - 40 | SVE; TFE | OFF | OFF |
| | GMW-36 | 4/11/1994 | 76.66 | 20 - 50 | SVE; TFE | OFF | OFF |
| | GMW-SF-9 | 4/1/2003 | 73.05 | 37 - 46 | TFE | -- | -- |
| | GMW-SF-10 | 4/2/2003 | 75.77 | 37 - 46 | TFE | -- | -- |
| West Side Barrier | BW-2 | 5/20/1996 | 73.57 | 27 - 47 | GWE | -- | OFF |
| | BW-3 | 5/17/1996 | 74.16 | 31 - 50 | GWE | -- | OFF |
| | BW-4 | 5/20/1996 | 74.61 | 28 - 47 | GWE | -- | OFF |
| | BW-5 | 5/23/1996 | 73.59 | 27 - 46 | GWE | -- | OFF |
| | BW-6 | 5/22/1996 | 73.48 | 28 - 47 | GWE | -- | OFF |
| | BW-7 | 5/22/1996 | 74.65 | 27 - 46 | GWE | -- | OFF |
| | BW-8 | 5/21/1996 | 75.08 | 27 - 46 | GWE | -- | OFF |
| | BW-9 | 5/21/1996 | 76.19 | 27 - 46 | GWE | -- | OFF |

Notes:

-- = information not available or not applicable

BS = biosparge

feet bgs = feet below ground surface

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

GWE = groundwater extraction

SVE = soil vapor extraction

TFE = total fluids extraction

Table 2. 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 |
| 2015 Totals | 98,408 | 4,325 | -- | -- | -- | 122,706 |
| First Quarter 2016 Totals | 100,105 | 1,697 | -- | -- | -- | 74,148 |
| Second Quarter 2016 Totals | 101,900 | 3,492 | -- | -- | -- | 47,416 |
| 7/1/2016 | 101,900 | 0 | 1,780 | 2,250 | 65 | 0 |
| 7/7/2016 | 102,042 | 142 | 1,780 | 1,996 | 75 | 4,333 |
| 7/12/2016 | 102,162 | 120 | 1,096 | 1,991 | 75 | 2,222 |
| 7/19/2016 | 102,331 | 170 | 1,082 | 1,870 | 75 | 2,974 |
| 7/26/2016 | 102,497 | 166 | 860 | 1,953 | 75 | 2,461 |
| 8/2/2016 | 102,664 | 167 | 658 | 1,879 | 80 | 1,890 |
| 8/11/2016 | 102,858 | 194 | 1,044 | 1,942 | 80 | 3,589 |
| 8/16/2016 | 102,966 | 108 | 1,012 | 1,895 | 80 | 1,959 |
| 8/24/2016 | 103,033 | 67 | 898 | 2,150 | 65 | 1,085 |
| 8/25/2016 | 103,055 | 21 | 624 | 2,045 | 65 | 239 |
| 8/26/2016 | 103,069 | 14 | 608 | 2,020 | 65 | 154 |
| 8/30/2016 | 103,161 | 92 | 796 | 2,041 | 75 | 1,330 |
| 9/6/2016 | 103,300 | 139 | 902 | 2,052 | 75 | 2,282 |
| 9/13/2016 | 103,471 | 171 | 848 | 1,931 | 75 | 2,590 |
| 9/20/2016 | 103,641 | 170 | 806 | 1,902 | 80 | 2,287 |
| 9/27/2016 | 103,808 | 168 | 372 | 1,888 | 75 | 1,009 |
| Third Quarter 2016 Totals | 103,808 | 1,908 | -- | -- | -- | 30,403 |
| Cumulative Totals | 101,900 | -- | -- | -- | -- | 3,472,430 |

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 | 07/12/2016 (ppmv as Hexane) ^a |
|------------------|---------------------|---------------------------|--|
| South-Central | MW-SF-1 | SVE | 420 |
| | MW-SF-2 | SVE; TFE | 1,234 |
| | MW-SF-3 | SVE; TFE | 432 |
| | MW-SF-4 | SVE | 910 |
| | MW-SF-5 | SVE | 238 |
| | MW-SF-6 | SVE; TFE | 2,388 |
| | MW-SF-9 | SVE | 2,692 |
| | MW-SF-10 | SVE | 624 |
| | MW-SF-11 | SVE; TFE | 112 |
| | MW-SF-12 | SVE; TFE | 2,142 |
| | MW-SF-13 | SVE; TFE | 834 |
| | MW-SF-14 | SVE; TFE | 256 |
| | MW-SF-15 | SVE; TFE | 1,146 |
| | MW-SF-16 | SVE; TFE | 246 |
| | MW-SF-17 | SVE; TFE | -- |
| | GMW-9 | SVE; TFE | >5000 |
| | GMW-10 | SVE | 284 |
| | GMW-22 | SVE; TFE | >5000 |
| | GMW-24 | SVE; TFE | 826 |
| | GMW-25 | SVE; GWE | 826 |
| | GWR-3 | SVE; GWE | 3,280 |
| | VEW-1 | SVE | Water in Line |
| | VEW-2 | SVE | 1154 |
| | MW-O-1 | SVE; TFE | 688 |
| | MW-O-2 | SVE; TFE | 1,026 |
| | GMW-O-11 | SVE; TFE | 176 |
| | GMW-O-12 | SVE | >5000 |
| | GMW-O-20 | SVE; TFE | -- |
| | GMW-O-23 | SVE; TFE | -- |
| | MW-18 (MID) | SVE | 158 |
| | HW-1 | SVE | 1,184 |
| | HW-2 | SVE | 2,158 |
| Southeastern | GMW-36 | SVE; TFE | 456 |
| | GMW-O-15 | SVE; TFE | 456 |
| | GMW-O-18 | SVE; TFE | 456 |

Notes:

^a Vapor readings measured in the field with an Eagle 2 photoionization detector (PID) calibrated using
 -- = not applicable or not available
 GWE = groundwater extraction
 ppmv = parts per million by volume
 SVE = soil vapor extraction
 TFE = total fluids extraction

Table 4. Extracted Vapor Analytical Results^a

SFPF 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) | TVOC (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) | TVOC (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 |
| 10/6/2015 | 0.0067 | 0.43 | 21 | --- | --- | 960 | 14,000 | 3,100 | 25,000 | 15,900 | <200 |
| 11/10/2015 | 0.0028 | 0.30 | 21 | --- | 860 | --- | 9,100 | 1,800 | 15,000 | 9,400 | <97 |
| 12/10/2016 | 0.004 | 0.41 | 21 | --- | 580 | --- | 6,400 | 1,200 | 10,000 | 7,600 | <120 |
| 1/4/2016 ^c | 0.0059 | 0.27 | 22 | --- | 750 | --- | 9,600 | 2,400 | 20,000 | 13,500 | <220 |
| 2/4/2016 ^c | 0.0038 | 0.58 | 21 | --- | 2,000 | --- | 16,000 | 2,600 | 29,000 | 19,300 | <610 |
| 3/3/2016 ^c | 0.004 | 0.64 | 21 | --- | 1,200 | --- | 11,000 | 3,000 | 27,000 | 27,500 | <130 |
| 4/5/2016 | 0.033 | 0.49 | 21 | --- | 400 | --- | 3,900 | 5,500 | 7,300 | 4,600 | <63 |
| 5/13/2016 | 0.0034 | 0.50 | 21 | --- | 290 | --- | 2,200 | 300 | 4,300 | 810 | <23 |
| 6/7/2016 | 0.0065 | 0.32 | 21 | --- | 150 | --- | 1,000 | 25 J | 1,100 | 117 J | <36 |
| 7/7/2016 | 0.014 | 0.48 | 21 | --- | 170 | --- | 1,000 | 220 | 2,500 | 1,630 | <51 |
| 8/2/2016 | 0.0047 | 0.54 | 21 | --- | 260 | --- | 1,900 | 720 | 5,000 | 7,400 | <22 |
| 9/7/2016 | 0.0066 | 0.53 | 21 | --- | 250 | --- | 1,600 | 680 | 3,800 | 5,000 | <21 |

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

J = Resulting analyte concentration is between the reporting limit and the method detection limit.

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)

TVOC = total volatile organic compound

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 |
| 2015 Totals | 3,410,458 | 0 | 3,410,458 | -- | 5,960 | 2,605 |
| First Quarter 2016 Totals | 767,657 | 0 | 767,657 | -- | 4,203 | 201 |
| Second Quarter 2016 Totals | 856,588 | 0 | 856,588 | -- | 253 | 37 |
| 7/1/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/2/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/3/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/4/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/5/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/6/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/7/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/8/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/9/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/10/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/11/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/12/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/13/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |

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) |
|------------------------|---|---|-------------------------------------|---|--|----------------------------|
| 7/14/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/15/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/16/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/17/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/18/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/19/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/20/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/21/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/22/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/23/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/24/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/25/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/26/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/27/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/28/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/29/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/30/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 7/31/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/1/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/2/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/3/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/4/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/5/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/6/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/7/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/8/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/9/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/10/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/11/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/12/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/13/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/14/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/15/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/16/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/17/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |

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) |
|------------------------|---|---|-------------------------------------|---|--|----------------------------|
| 8/18/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/19/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/20/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/21/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/22/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/23/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/24/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/25/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/26/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/27/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/28/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/29/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/30/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 8/31/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 9/1/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 9/2/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 9/3/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 9/4/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 9/5/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 9/6/2016 | 0 | 0 | 0 | 6,580 | 0.00 | |
| 9/7/2016 | 1,452 | 0 | 1,452 | 6,580 | 0.08 | |
| 9/8/2016 | 7,500 | 0 | 7,500 | 6,580 | 0.41 | |
| 9/9/2016 | 9,398 | 0 | 9,398 | 6,580 | 0.52 | |
| 9/10/2016 | 8,751 | 0 | 8,751 | 6,580 | 0.48 | |
| 9/11/2016 | 8,572 | 0 | 8,572 | 6,580 | 0.47 | |
| 9/12/2016 | 6,461 | 0 | 6,461 | 6,580 | 0.35 | |
| 9/13/2016 | 7,884 | 0 | 7,884 | 6,580 | 0.43 | |
| 9/14/2016 | 15,252 | 0 | 15,252 | 6,580 | 0.84 | |
| 9/15/2016 | 13,971 | 0 | 13,971 | 6,580 | 0.77 | |
| 9/16/2016 | 13,640 | 0 | 13,640 | 6,580 | 0.75 | |
| 9/17/2016 | 12,723 | 0 | 12,723 | 6,580 | 0.70 | |
| 9/18/2016 | 12,156 | 0 | 12,156 | 6,580 | 0.67 | |
| 9/19/2016 | 12,387 | 0 | 12,387 | 6,580 | 0.68 | |
| 9/20/2016 | 10,771 | 0 | 10,771 | 390 | 0.03 | |
| 9/21/2016 | 12,609 | 0 | 12,609 | 390 | 0.04 | |

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) |
|----------------------------------|---|---|-------------------------------------|---|--|----------------------------|
| 9/22/2016 | 11,929 | 0 | 11,929 | 390 | 0.04 | |
| 9/23/2016 | 11,324 | 0 | 11,324 | 390 | 0.04 | |
| 9/24/2016 | 11,093 | 0 | 11,093 | 390 | 0.04 | |
| 9/25/2016 | 11,405 | 0 | 11,405 | 390 | 0.04 | |
| 9/26/2016 | 10,943 | 0 | 10,943 | 390 | 0.04 | |
| 9/27/2016 | 7,735 | 0 | 7,735 | 390 | 0.03 | |
| 9/28/2016 | 0 | 0 | 0 | 390 | 0.00 | |
| 9/29/2016 | 0 | 0 | 0 | 390 | 0.00 | |
| 9/30/2016 | 0 | 0 | 0 | 390 | 0.00 | |
| Third Quarter 2016 Totals | 217,956 | 0 | 217,956 | -- | 7.4 | 0 |
| Cumulative Total | 70,715,174 | 26,902,604 | 97,617,778 | -- | 19,364 | 14,097 |

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
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) |
| 1/30/2003 | -- | -- | -- | -- | -- | <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 |
| 10/8/2016 | 51,000 | 55,000 | 1,800 | 107,800 | -- | 5,700 | 1,400 | 11,000 | 11,000 | 680 | <0.60 | 16 | <0.078 | 6.2 |
| 11/24/2015 | 45,000 | 74,000 | 2,800 | 121,800 | -- | 3,400 | 1,100 | 7,000 | 7,800 | <0.31 | <1.5 | 16 | <0.20 | <0.20 |
| 12/3/2015 | 40,000 | 120,000 | 4,000 | 164,000 | -- | 4,800 | 1,100 | 7,700 | 8,300 | 580 | <1.5 | 19 | <0.20 | 5.9 |
| 1/21/2016 | 88,000 | 2,500,000 | 97,000 | 2,685,000 | -- | 4,200 | 1,700 | 10,000 | 14,000 | 380 | <0.60 | 12 | <0.078 | <0.078 |
| 2/2/2016 | 31,000 | 110,000 | 4,700 | 145,700 | -- | 2,600 | 750 | 4,600 | 9,500 | 430 | <0.60 | 8.6 | <0.078 | <0.078 |
| 4/5/2016 | 32,000 | 31,000 | 1,100 | 64,100 | -- | 1,500 | 450 | 2,200 | 12,000 | 390 | <3.0 | <0.17 | <0.39 | <0.39 |
| 5/3/2016 | 2,600 | 20,000 | 680 | 23,280 | -- | 990 | 18 | 83 | 260 | 6.0 | 100 | 7.1 | <0.039 | <0.039 |
| 6/14/2016 | 1,900 | 4,400 | 280 | 6,580 | -- | 290 | 21 | 110 | 400 | 8.6 | <5.0 | 6.00 | <1.0 | <1.0 |
| The GWTS was down between June 24 and September 9, 2016, to facilitate installation of the new DAF/OWS. | | | | | | | | | | | | | | |
| 9/20/2016 | 32 | 230 | 130 | 390 | -- | <0.036 | 0.18 J | 0.080 J | 2.6 | 2.2 | 150 | 10 | <0.039 | <0.039 |

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) show

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. Biosparge System Operation Summary
SFPP Norwalk Pump Station, Norwalk, California

| System Inspection Date | Cumulative Hours of Operation (hours) | Incremental Hours of Operation (hours) | Incremental Uptime (%) | System Flow^a (scfm) | BS-01 Sparge Leg Pressure (psi) |
|-----------------------------------|--|---|-------------------------------|---------------------------------------|--|
| 1/6/2016 | 0 | | | 60 | 10 |
| 2/16/2016 | 899 | 899 | 91.9 | 500 | 13 |
| 2/23/2016 | 1,071 | 172 | 99.1 | 500 | 14 |
| 2/29/2016 | 1,192 | 121 | 85.1 | 500 | 13 |
| 3/1/2016 | 1,214 | 22 | 98.5 | 500 | 13 |
| 3/8/2016 | 1,381 | 167 | 99.9 | 500 | 14 |
| 3/10/2016 | 1,426 | 45 | 98.5 | 500 | 14 |
| 3/22/2016 | 1,432 | 6 | 2.0 | 240 | 7 |
| 3/31/2016 | 1,524 | 92 | 42.5 | 180 | 8 |
| First Quarter 2016 Totals | 1,524 | 1,524 | 74.7 | -- | -- |
| 4/5/2016 | 1,644 | 120 | 99.2 | 120 | 7 |
| 4/15/2016 | 1,645 | 1 | 0.4 | 120 | 8 |
| 4/19/2016 | 1,735 | 90 | 99.4 | 240 | 9 |
| 4/25/2016 | 1,856 | 121 | 84.6 | 120 | 8 |
| 4/26/2016 | 1,881 | 25 | 87.7 | 240 | 8 |
| 4/29/2016 | 1,955 | 74 | 100.0 | 240 | 7 |
| 5/10/2016 | 1,955 | 0 | 0.0 | 240 | 8 |
| 5/17/2016 | 2,123 | 168 | 99.8 | 240 | 6 |
| 5/19/2016 | 2,140 | 17 | 36.9 | 120 | 5 |
| 5/24/2016 | 2,254 | 114 | 94.4 | 360 | 6 |
| 5/31/2016 | 2,422 | 168 | 98.7 | 360 | 7 |
| 6/7/2016 | 2,591 | 169 | 100.0 | 420 | 7 |
| 6/14/2016 | 2,754 | 163 | 95.3 | 420 | 8 |
| 6/21/2016 | 2,906 | 152 | 92.7 | 420 | 8 |
| 6/24/2016 | 2,982 | 76 | 99.6 | 420 | 8 |
| Second Quarter 2016 Totals | 2,982 | 1,458 | 71.5 | -- | -- |

Table 7. Biosparge System Operation Summary
SFPP Norwalk Pump Station, Norwalk, California

| System Inspection Date | Cumulative Hours of Operation (hours) | Incremental Hours of Operation (hours) | Incremental Uptime (%) | System Flow^a (scfm) | BS-01 Sparge Leg Pressure (psi) |
|----------------------------------|--|---|-------------------------------|---------------------------------------|--|
| 7/1/2016 | 2,982 | 0 | 0.0 | 120 | 5 |
| 7/7/2016 | 3,121 | 139 | 97.9 | 250 | 8 |
| 7/12/2016 | 3,242 | 121 | 100.0 | 420 | 5 |
| 7/19/2016 | 3,410 | 168 | 97.1 | 420 | 8 |
| 7/26/2016 | 3,575 | 165 | 99.8 | 420 | 8 |
| 8/2/2016 | 3,744 | 169 | 99.6 | 425 | 8 |
| 8/11/2016 | 3,931 | 187 | 88.0 | 240 | 7 |
| 8/16/2016 | 3,961 | 30 | 24.7 | 220 | 8 |
| 8/24/2016 | 4,033 | 72 | 36.5 | 120 | 4 |
| 8/25/2016 | 4,053 | 20 | 89.9 | 220 | 8 |
| 8/26/2016 | 4,067 | 14 | 66.7 | 78 | 5 |
| 8/30/2016 | 4,157 | 90 | 96.8 | 300 | 9 |
| 9/6/2016 | 4,303 | 146 | 84.5 | 85 | 5 |
| 9/13/2016 | 4,440 | 137 | 81.7 | 400 | 8 |
| 9/20/2016 | 4,611 | 171 | 100.0 | 586 | 14 |
| 9/27/2016 | 4,775 | 164 | 100.0 | 559 | 13 |
| Third Quarter 2016 Totals | 4,775 | 1,793 | 78.7 | -- | -- |
| Cumulative Totals | 4,775 | -- | 75.1 | -- | -- |

Notes:

^a Estimated system flow based on header flowmeter

-- = not applicable or not available

psi = pounds per square inch

scfm = standard cubic feet per minute

Table 8. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

| Well ID | Date Gauged | Top of Well Casing Elevation (feet msl) | Measured Depth to Groundwater (feet btoc) | Measured Depth to Product (feet btoc) | Apparent Product Thickness (feet) | Corrected Groundwater Elevation (feet msl) | Gauged By |
|------------|-------------|---|---|---------------------------------------|-----------------------------------|--|--------------|
| GMW-9 | 4/30/2007 | 74.44 | 26.71 | --- | --- | 47.73 | Secor |
| | 11/12/2007 | 74.44 | 27.32 | 27.04 | 0.28 | 47.34 | Secor |
| | 8/8/2008 | 74.44 | 28.01 | 27.96 | 0.05 | 46.47 | Envent |
| | 10/16/2008 | 74.44 | 28.36 | 28.35 | 0.01 | 46.09 | Envent |
| | 12/17/2008 | 74.44 | 27.61 | --- | --- | 46.83 | Envent |
| | 1/15/2009 | 74.44 | 28.91 | --- | --- | 45.53 | Envent |
| | 3/27/2009 | 74.44 | 29.04 | --- | --- | 45.40 | Envent |
| | 4/21/2009 | 74.44 | 28.16 | --- | --- | 46.28 | Envent |
| | 7/21/2009 | 74.44 | 28.31 | --- | --- | 46.13 | Envent |
| | 10/19/2009 | 74.44 | NM | --- | --- | NC | Blaine Tech |
| | 5/24/2010 | 74.44 | 30.47 | --- | --- | 43.97 | Blaine Tech |
| | 5/28/2010 | 74.44 | 30.35 | --- | --- | 44.09 | Blaine Tech |
| | 10/4/2010 | 74.44 | 30.30 | --- | --- | 44.14 | Blaine Tech |
| | 1/10/2011 | 74.44 | 32.02 | --- | --- | 42.42 | Blaine Tech |
| | 4/11/2011 | 74.44 | 25.41 | --- | --- | 49.03 | Blaine Tech |
| | 7/11/2011 | 74.44 | NM | --- | --- | NC | |
| | 10/10/2011 | 74.44 | 28.91 | --- | --- | 45.53 | Blaine Tech |
| | 4/16/2012 | 74.44 | 31.15 | --- | --- | 43.29 | Blaine Tech |
| | 7/9/2012 | --- | 31.64 | --- | --- | NC | Blaine Tech |
| | 10/15/2012 | 77.16 | 31.82 | --- | --- | 45.34 | Blaine Tech |
| | 1/14/2013 | 77.16 | 31.88 | --- | --- | 45.28 | Blaine Tech |
| | 4/8/2013 | 77.16 | 31.83 | --- | --- | 45.33 | Blaine Tech |
| | 10/7/2013 | 77.16 | 35.30 | 31.25 | 4.05 | 45.02 | Blaine Tech |
| | 4/14/2014 | 77.16 | 37.66 | 31.65 | 6.01 | 44.19 | Blaine Tech |
| | 5/5/2014 | 77.16 | 37.81 | 31.76 | 6.05 | 44.07 | Nieto & Sons |
| | 5/12/2014 | 77.16 | 37.39 | 31.83 | 5.56 | 44.11 | Nieto & Sons |
| | 5/20/2014 | 77.16 | 37.70 | 33.85 | 3.85 | 42.46 | Nieto & Sons |
| | 5/27/2014 | 77.16 | 32.41 | 28.84 | 3.57 | 47.53 | Nieto & Sons |
| | 6/4/2014 | 77.16 | 33.20 | --- | --- | 43.96 | Nieto & Sons |
| | 6/10/2014 | 77.16 | 37.51 | 32.77 | 4.74 | 43.35 | Nieto & Sons |
| | 7/3/2014 | 77.16 | 39.26 | 32.59 | 6.67 | 43.10 | Nieto & Sons |
| | 7/8/2014 | 77.16 | 38.59 | 32.45 | 6.14 | 43.36 | Blaine Tech |
| | 7/18/2014 | 77.16 | 37.15 | 32.73 | 4.42 | 43.46 | Blaine Tech |
| | 7/24/2014 | 77.16 | 37.78 | 32.48 | 5.30 | 43.51 | Blaine Tech |
| | 8/1/2014 | 77.16 | 36.72 | 32.30 | 4.42 | 43.89 | Blaine Tech |
| | 8/8/2014 | 77.16 | 36.55 | 32.26 | 4.29 | 43.96 | Blaine Tech |
| | 8/13/2014 | 77.16 | 36.25 | 32.33 | 3.92 | 43.97 | Blaine Tech |
| | 8/19/2014 | 77.16 | 36.04 | 32.38 | 3.66 | 43.97 | Blaine Tech |
| | 8/29/2014 | 77.16 | 36.23 | 32.33 | 3.90 | 43.97 | Blaine Tech |
| | 9/5/2014 | 77.16 | 36.26 | 32.35 | 3.91 | 43.95 | Blaine Tech |
| | 9/11/2014 | 77.16 | 36.27 | 32.33 | 3.94 | 43.96 | Blaine Tech |
| | 9/18/2014 | 77.16 | 36.42 | 32.37 | 4.05 | 43.90 | Blaine Tech |
| | 9/26/2014 | 77.16 | 36.39 | 32.35 | 4.04 | 43.92 | Blaine Tech |
| | 10/1/2014 | 77.16 | 36.11 | 32.42 | 3.69 | 43.93 | Blaine Tech |
| | 10/6/2014 | 77.16 | 35.99 | 32.42 | 3.57 | 43.95 | Blaine Tech |
| | 10/14/2014 | 77.16 | 36.24 | 32.34 | 3.90 | 43.96 | Blaine Tech |
| | 10/23/2014 | 77.16 | 36.32 | 32.35 | 3.97 | 43.94 | Blaine Tech |
| 10/27/2014 | 77.16 | 36.04 | 32.42 | 3.62 | 43.94 | Blaine Tech | |
| 11/3/2014 | 77.16 | 36.40 | 32.35 | 4.05 | 43.92 | Blaine Tech | |
| 11/10/2014 | 77.16 | 36.32 | 32.41 | 3.91 | 43.89 | Blaine Tech | |
| 11/18/2014 | 77.16 | 36.28 | 32.43 | 3.85 | 43.88 | Blaine Tech | |
| 11/25/2014 | 77.16 | 36.21 | 32.49 | 3.72 | 43.85 | Blaine Tech | |
| 12/3/2014 | 77.16 | 36.18 | 32.43 | 3.75 | 43.90 | Blaine Tech | |
| 12/12/2014 | 77.16 | 36.58 | 32.74 | 3.84 | 43.58 | Blaine Tech | |
| 12/19/2014 | 77.16 | 37.05 | 32.76 | 4.29 | 43.46 | Blaine Tech | |
| 3/6/2015 | 77.16 | 39.40 | 33.13 | 6.27 | 42.65 | Kinder Morgan | |
| 4/20/2015 | 77.16 | 36.98 | 32.99 | 3.99 | 43.29 | Blaine Tech | |
| 10/20/2015 | 77.16 | 34.61 | 34.37 | 0.24 | 42.74 | Kinder Morgan | |
| 3/14/2016 | 77.16 | 36.10 | --- | --- | 41.06 | Blaine Tech | |
| 4/11/2016 | 77.16 | 36.20 | --- | --- | 40.96 | Blaine Tech | |
| 6/30/2016 | 77.16 | 31.02 | --- | --- | 46.14 | Kinder Morgan | |
| 8/22/2016 | 77.16 | 37.27 | --- | --- | 39.89 | Kinder Morgan | |
| GMW-10 | 4/30/2007 | 74.67 | 25.90 | --- | --- | 48.77 | Secor |
| | 11/12/2007 | 74.67 | 25.02 | 25.82 | 0.83 | 50.33 | Secor |
| | 4/14/2008 | 74.67 | 25.38 | 25.44 | 0.06 | 49.34 | Secor |
| | 10/13/2008 | 74.67 | 24.16 | --- | --- | 50.51 | Stantec |
| | 4/20/2009 | 74.67 | 24.46 | --- | --- | 50.21 | Blaine Tech |
| | 10/19/2009 | 74.67 | 27.20 | --- | --- | 47.47 | Blaine Tech |

Table 8. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

| Well ID | Date Gauged | Top of Well Casing Elevation (feet msl) | Measured Depth to Groundwater (feet btoc) | Measured Depth to Product (feet btoc) | Apparent Product Thickness (feet) | Corrected Groundwater Elevation (feet msl) | Gauged By |
|---------|-------------|---|---|---------------------------------------|-----------------------------------|--|---------------|
| | 5/24/2010 | 74.67 | 26.72 | --- | --- | 47.95 | Blaine Tech |
| | 5/28/2010 | 74.67 | 26.70 | --- | --- | 47.97 | Blaine Tech |
| | 10/4/2010 | 74.67 | 27.15 | --- | --- | 47.52 | Blaine Tech |
| | 4/11/2011 | 74.67 | 25.21 | --- | --- | 49.46 | Blaine Tech |
| | 10/10/2011 | 74.67 | 27.75 | --- | --- | 46.92 | Blaine Tech |
| | 4/27/2012 | 74.67 | 28.47 | --- | --- | 46.20 | Blaine Tech |
| | 7/9/2012 | 74.67 | NM | --- | --- | NC | Blaine Tech |
| | 10/15/2012 | 74.67 | 29.15 | 29.02 | 0.13 | 45.63 | Blaine Tech |
| | 4/8/2013 | 74.67 | 33.64 | 28.12 | 5.52 | 45.53 | Blaine Tech |
| | 9/26/2013 | 73.35 | 36.15 | 29.25 | 6.90 | 42.82 | Blaine Tech |
| | 10/7/2013 | 73.35 | 31.85 | 29.32 | 2.53 | 43.56 | Blaine Tech |
| | 4/14/2014 | 73.35 | 29.43 | 29.01 | 0.42 | 44.26 | Blaine Tech |
| | 8/19/2014 | 73.35 | 29.80 | 29.53 | 0.27 | 43.77 | Blaine Tech |
| | 8/29/2014 | 73.35 | 29.68 | 29.25 | 0.43 | 44.02 | Blaine Tech |
| | 9/26/2014 | 73.35 | 29.98 | 29.23 | 0.75 | 43.98 | Blaine Tech |
| | 10/1/2014 | 73.35 | 29.98 | 29.19 | 0.79 | 44.01 | Blaine Tech |
| | 10/6/2014 | 73.35 | 30.01 | 29.16 | 0.85 | 44.03 | Blaine Tech |
| | 10/14/2014 | 73.35 | 30.01 | 29.18 | 0.83 | 44.02 | Blaine Tech |
| | 10/23/2014 | 73.35 | 30.17 | 29.15 | 1.02 | 44.01 | Blaine Tech |
| | 10/27/2014 | 73.35 | 30.19 | 29.12 | 1.07 | 44.03 | Blaine Tech |
| | 11/3/2014 | 73.35 | 30.25 | 29.13 | 1.12 | 44.01 | Blaine Tech |
| | 11/10/2014 | 73.35 | 29.85 | 29.28 | 0.57 | 43.96 | Blaine Tech |
| | 11/18/2014 | 73.35 | 29.95 | 29.28 | 0.67 | 43.95 | Blaine Tech |
| | 11/25/2014 | 73.35 | 30.00 | 29.27 | 0.73 | 43.94 | Blaine Tech |
| | 12/3/2014 | 73.35 | 30.18 | 29.27 | 0.91 | 43.91 | Blaine Tech |
| | 12/12/2014 | 73.35 | 30.81 | 29.45 | 1.36 | 43.65 | Blaine Tech |
| | 12/19/2014 | 73.35 | 30.51 | 30.35 | 0.16 | 42.97 | Blaine Tech |
| | 4/20/2015 | 73.35 | 34.99 | 28.42 | 6.57 | 43.71 | Blaine Tech |
| | 7/17/2015 | 73.35 | 36.10 | 29.41 | 6.69 | 42.70 | Blaine Tech |
| | 10/20/2015 | 73.35 | 32.96 | 31.02 | 1.94 | 41.97 | Kinder Morgan |
| | 3/16/2016 | 73.35 | 34.47 | 33.42 | 1.05 | 39.74 | Kinder Morgan |
| | 4/11/2016 | 73.35 | 33.70 | 32.10 | 1.60 | 40.95 | Blaine Tech |
| | 6/29/2016 | 73.35 | 33.02 | --- | --- | 40.33 | Blaine Tech |
| | 8/22/2016 | 73.35 | 33.82 | 32.93 | 0.89 | 40.26 | Blaine Tech |
| GMW-22 | 4/30/2007 | 74.17 | 25.79 | --- | --- | 48.38 | Secor |
| | 11/12/2007 | 74.17 | 26.45 | 25.91 | 0.54 | 48.16 | Stantec |
| | 8/12/2008 | 74.17 | 26.70 | --- | --- | 47.47 | Envent |
| | 10/31/2008 | 74.17 | 28.25 | 27.04 | 1.21 | 46.91 | Envent |
| | 11/4/2008 | 74.17 | 26.97 | --- | --- | 47.20 | Envent |
| | 12/17/2008 | 74.17 | 26.65 | --- | --- | 47.52 | Envent |
| | 1/15/2009 | 74.17 | 27.18 | --- | --- | 46.99 | Envent |
| | 3/27/2009 | 74.17 | 27.86 | --- | --- | 46.31 | Envent |
| | 4/21/2009 | 74.17 | 27.30 | 27.20 | 0.10 | 46.95 | Envent |
| | 7/21/2009 | 74.17 | 27.70 | --- | --- | 46.47 | Envent |
| | 10/19/2009 | 74.17 | NM | --- | --- | NC | Blaine Tech |
| | 11/6/2009 | 74.17 | 28.12 | --- | --- | 46.05 | Kinder Morgan |
| | 9/3/2010 | 74.17 | 28.36 | 25.10 | 3.26 | 48.47 | Kinder Morgan |
| | 10/4/2010 | 74.17 | 27.65 | --- | --- | 46.52 | Blaine Tech |
| | 4/11/2011 | 74.17 | 26.45 | --- | --- | 47.72 | Blaine Tech |
| | 10/10/2011 | 74.17 | 29.68 | --- | --- | 44.49 | Blaine Tech |
| | 4/16/2012 | 74.17 | 31.15 | --- | --- | 43.02 | Blaine Tech |
| | 7/9/2012 | --- | NM | --- | --- | NC | Blaine Tech |
| | 10/15/2012 | 77.24 | 31.05 | --- | --- | 46.19 | Blaine Tech |
| | 4/8/2013 | 77.24 | 31.92 | --- | --- | 45.32 | Blaine Tech |
| | 10/7/2013 | 77.24 | 34.28 | 31.65 | 2.63 | 45.10 | Blaine Tech |
| | 4/14/2014 | 77.24 | 35.59 | 32.30 | 3.29 | 44.33 | Blaine Tech |
| | 5/6/2014 | 77.24 | 35.87 | 32.35 | 3.52 | 44.24 | Nieto & Sons |
| | 5/12/2014 | 77.24 | 35.76 | 32.28 | 3.48 | 44.32 | Nieto & Sons |
| | 5/20/2014 | 77.24 | 37.90 | 32.70 | 5.20 | 43.58 | Nieto & Sons |
| | 5/27/2014 | 77.24 | 36.34 | 32.71 | 3.63 | 43.86 | Nieto & Sons |
| | 6/4/2014 | 77.24 | 33.36 | --- | --- | 43.88 | Nieto & Sons |
| | 6/10/2014 | 77.24 | 36.74 | 32.82 | 3.92 | 43.69 | Nieto & Sons |
| | 7/3/2014 | 77.24 | 37.66 | 32.91 | 4.75 | 43.45 | Nieto & Sons |
| | 7/8/2014 | 77.24 | 36.70 | 32.79 | 3.91 | 43.73 | Blaine Tech |
| | 7/18/2014 | 77.24 | 36.68 | 32.77 | 3.91 | 43.75 | Blaine Tech |
| | 7/24/2014 | 77.24 | 36.79 | 32.62 | 4.17 | 43.85 | Blaine Tech |
| | 8/1/2014 | 77.24 | 35.82 | 32.44 | 3.38 | 44.17 | Blaine Tech |
| | 8/8/2014 | 77.24 | 35.72 | 32.44 | 3.28 | 44.19 | Blaine Tech |

Table 8. 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 | 77.24 | 35.68 | 32.45 | 3.23 | 44.19 | Blaine Tech |
| | 8/19/2014 | 77.24 | 35.64 | 32.45 | 3.19 | 44.20 | Blaine Tech |
| | 8/29/2014 | 77.24 | 35.65 | 32.44 | 3.21 | 44.21 | Blaine Tech |
| | 9/5/2014 | 77.24 | 35.73 | 32.46 | 3.27 | 44.18 | Blaine Tech |
| | 9/11/2014 | 77.24 | 35.78 | 32.47 | 3.31 | 44.16 | Blaine Tech |
| | 9/18/2014 | 77.24 | 35.85 | 32.49 | 3.36 | 44.13 | Blaine Tech |
| | 9/26/2014 | 77.24 | 35.85 | 32.46 | 3.39 | 44.15 | Blaine Tech |
| | 10/1/2014 | 77.24 | 35.76 | 32.45 | 3.31 | 44.18 | Blaine Tech |
| | 10/6/2014 | 77.24 | 35.72 | 32.44 | 3.28 | 44.19 | Blaine Tech |
| | 10/14/2014 | 77.24 | 35.75 | 32.42 | 3.33 | 44.20 | Blaine Tech |
| | 10/23/2014 | 77.24 | 35.84 | 32.43 | 3.41 | 44.18 | Blaine Tech |
| | 10/27/2014 | 77.24 | 35.74 | 32.41 | 3.33 | 44.21 | Blaine Tech |
| | 11/3/2014 | 77.24 | 35.89 | 32.45 | 3.44 | 44.15 | Blaine Tech |
| | 11/10/2014 | 77.24 | 35.94 | 32.45 | 3.49 | 44.14 | Blaine Tech |
| | 11/18/2014 | 77.24 | 35.97 | 32.48 | 3.49 | 44.11 | Blaine Tech |
| | 11/25/2014 | 77.24 | 35.97 | 32.51 | 3.46 | 44.09 | Blaine Tech |
| | 12/3/2014 | 77.24 | 35.84 | 32.45 | 3.39 | 44.16 | Blaine Tech |
| | 12/12/2014 | 77.24 | 36.44 | 32.65 | 3.79 | 43.89 | Blaine Tech |
| | 12/19/2014 | 77.24 | 36.80 | 34.71 | 2.09 | 42.14 | Blaine Tech |
| | 4/20/2015 | 77.24 | 36.64 | 32.84 | 3.80 | 43.70 | Blaine Tech |
| | 7/24/2015 | 77.24 | 39.80 | 33.70 | 6.10 | 42.41 | Northstar |
| | 10/20/2015 | 77.24 | 36.10 | 34.92 | 1.18 | 42.10 | Kinder Morgan |
| | 3/16/2016 | 77.24 | 39.73 | 37.61 | 2.12 | 39.24 | Kinder Morgan |
| | 4/11/2016 | 77.24 | 38.59 | 35.50 | 3.09 | 41.17 | Blaine Tech |
| | 6/30/2016 | 77.24 | 36.55 | --- | --- | 40.69 | Blaine Tech |
| GMW-24 | 4/30/2007 | 74.04 | 27.07 | --- | --- | 46.97 | Secor |
| | 11/12/2007 | 74.04 | 27.50 | 27.46 | 0.04 | 46.57 | Stantec |
| | 8/12/2008 | 74.04 | NM | --- | --- | NC | Envent |
| | 8/19/2008 | 74.04 | 29.34 | 28.24 | 1.10 | 45.58 | Envent |
| | 10/17/2008 | 74.04 | 30.88 | 29.90 | 0.98 | 43.94 | Envent |
| | 10/21/2008 | 74.04 | 29.64 | 28.30 | 1.34 | 45.47 | Envent |
| | 12/18/2008 | 74.04 | 29.04 | --- | --- | 45.00 | Envent |
| | 1/15/2009 | 74.04 | 30.56 | 29.80 | 0.76 | 44.09 | Envent |
| | 3/20/2009 | 74.04 | 31.28 | --- | --- | 42.76 | Envent |
| | 3/27/2009 | 74.04 | 30.45 | --- | --- | 43.59 | Envent |
| | 4/21/2009 | 74.04 | 29.91 | --- | --- | 44.13 | Envent |
| | 7/21/2009 | 74.04 | 32.78 | --- | --- | 41.26 | Envent |
| | 10/19/2009 | 74.04 | NM | --- | --- | NC | Blaine Tech |
| | 2/4/2010 | 74.04 | 29.67 | 29.40 | 0.27 | 44.59 | Kinder Morgan |
| | 6/22/2010 | 74.04 | 29.47 | --- | --- | 44.57 | Blaine Tech |
| | 9/3/2010 | 74.04 | 29.90 | --- | --- | 44.14 | Kinder Morgan |
| | 10/4/2010 | 74.04 | 29.50 | --- | --- | 44.54 | Blaine Tech |
| | 4/11/2011 | 74.04 | 28.21 | --- | --- | 45.83 | Blaine Tech |
| | 10/10/2011 | 74.04 | 28.78 | --- | --- | 45.26 | Blaine Tech |
| | 4/16/2012 | 74.04 | 30.49 | 30.31 | 0.18 | 43.69 | Blaine Tech |
| | 7/9/2012 | --- | NM | --- | --- | NC | Blaine Tech |
| | 10/15/2012 | 77.48 | 31.34 | --- | --- | 46.14 | Blaine Tech |
| | 4/8/2013 | 77.48 | NM | --- | --- | NC | Blaine Tech |
| | 6/14/2013 | 77.48 | 33.35 | 32.40 | 0.95 | 44.89 | Blaine Tech |
| | 10/7/2013 | 77.48 | 35.42 | 31.61 | 3.81 | 45.11 | Blaine Tech |
| | 4/14/2014 | 77.48 | 37.74 | 32.01 | 5.73 | 44.32 | Blaine Tech |
| | 5/5/2014 | 77.48 | 37.81 | 32.09 | 5.72 | 44.25 | Nieto & Sons |
| | 5/12/2014 | 77.48 | 37.52 | 32.14 | 5.38 | 44.26 | Nieto & Sons |
| | 5/20/2014 | 77.48 | 37.39 | 32.21 | 5.18 | 44.23 | Nieto & Sons |
| | 5/27/2014 | 77.48 | 37.95 | 32.90 | 5.05 | 43.57 | Nieto & Sons |
| | 6/4/2014 | 77.48 | 37.00 | 32.70 | 4.30 | 43.92 | Nieto & Sons |
| | 6/10/2014 | 77.48 | 37.85 | 32.98 | 4.87 | 43.53 | Nieto & Sons |
| | 7/3/2014 | 77.48 | 39.60 | 33.04 | 6.56 | 43.13 | Nieto & Sons |
| | 7/8/2014 | 77.48 | 38.67 | 32.89 | 5.78 | 43.43 | Blaine Tech |
| | 7/18/2014 | 77.48 | 38.64 | 32.86 | 5.78 | 43.46 | Blaine Tech |
| | 7/24/2014 | 77.48 | 38.27 | 32.82 | 5.45 | 43.57 | Blaine Tech |
| | 8/1/2014 | 77.48 | 37.00 | 32.55 | 4.45 | 44.04 | Blaine Tech |
| | 8/8/2014 | 77.48 | 36.97 | 32.51 | 4.46 | 44.08 | Blaine Tech |
| | 8/13/2014 | 77.48 | 36.82 | 32.54 | 4.28 | 44.08 | Blaine Tech |
| | 8/19/2014 | 77.48 | 36.92 | 32.55 | 4.37 | 44.06 | Blaine Tech |
| | 8/29/2014 | 77.48 | 36.92 | 32.51 | 4.41 | 44.09 | Blaine Tech |
| | 9/5/2014 | 77.48 | 36.97 | 32.55 | 4.42 | 44.05 | Blaine Tech |
| | 9/11/2014 | 77.48 | 37.99 | 32.57 | 5.42 | 43.83 | Blaine Tech |

Table 8. 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 | 77.48 | 36.89 | 32.60 | 4.29 | 44.02 | Blaine Tech |
| | 9/26/2014 | 77.48 | 36.86 | 32.58 | 4.28 | 44.04 | Blaine Tech |
| | 10/1/2014 | 77.48 | 36.64 | 32.61 | 4.03 | 44.06 | Blaine Tech |
| | 10/6/2014 | 77.48 | 36.93 | 32.92 | 4.01 | 43.76 | Blaine Tech |
| | 10/14/2014 | 77.48 | 36.92 | 32.88 | 4.04 | 43.79 | Blaine Tech |
| | 10/23/2014 | 77.48 | 37.00 | 32.90 | 4.10 | 43.76 | Blaine Tech |
| | 10/27/2014 | 77.48 | 36.82 | 32.91 | 3.91 | 43.79 | Blaine Tech |
| | 11/3/2014 | 77.48 | 37.01 | 32.99 | 4.02 | 43.69 | Blaine Tech |
| | 11/10/2014 | 77.48 | 37.33 | 33.95 | 3.38 | 42.85 | Blaine Tech |
| | 11/18/2014 | 77.48 | 36.96 | 33.01 | 3.95 | 43.68 | Blaine Tech |
| | 11/25/2014 | 77.48 | 36.91 | 33.55 | 3.36 | 43.26 | Blaine Tech |
| | 12/3/2014 | 77.48 | 36.87 | 32.99 | 3.88 | 43.71 | Blaine Tech |
| | 12/12/2014 | 77.48 | 37.36 | 33.25 | 4.11 | 43.41 | Blaine Tech |
| | 12/19/2014 | 77.48 | 37.75 | 33.31 | 4.44 | 43.28 | Blaine Tech |
| | 3/10/2015 | 77.48 | 36.25 | --- | --- | 41.23 | Kinder Morgan |
| | 4/20/2015 | 77.48 | 36.29 | 33.82 | 2.47 | 43.17 | Blaine Tech |
| | 7/24/2015 | 77.48 | 39.80 | 33.70 | 6.10 | 42.56 | Blaine Tech |
| | 10/20/2015 | 77.48 | 35.44 | --- | --- | 42.04 | Kinder Morgan |
| | 3/16/2016 | 77.48 | 38.83 | --- | --- | 38.65 | Kinder Morgan |
| | 4/11/2016 | 77.48 | 37.10 | --- | --- | 40.38 | Blaine Tech |
| | 6/29/2016 | 77.48 | 38.20 | --- | --- | 39.28 | Blaine Tech |
| | 8/22/2016 | 77.48 | 38.40 | --- | --- | 39.08 | Blaine Tech |
| GMW-25 | 4/30/2007 | 74.29 | 26.60 | --- | --- | 47.69 | Secor |
| | 11/12/2007 | 74.29 | 27.30 | 27.25 | 0.05 | 47.03 | Stantec |
| | 8/12/2008 | 74.29 | 27.81 | --- | --- | 46.48 | Envent |
| | 10/17/2008 | 74.29 | 28.26 | --- | --- | 46.03 | Envent |
| | 12/18/2008 | 74.29 | 29.01 | --- | --- | 45.28 | Envent |
| | 1/15/2009 | 74.29 | 28.62 | --- | --- | 45.67 | Envent |
| | 3/24/2009 | 74.29 | 28.79 | --- | --- | 45.50 | Envent |
| | 4/21/2009 | 74.29 | 28.35 | --- | --- | 45.94 | Envent |
| | 7/21/2009 | 74.29 | 29.80 | --- | --- | 44.49 | Envent |
| | 10/19/2009 | 74.29 | 30.28 | --- | --- | 44.01 | Blaine Tech |
| | 6/22/2010 | 74.29 | 31.64 | --- | --- | 42.65 | Blaine Tech |
| | 10/4/2010 | 74.29 | 29.25 | --- | --- | 45.04 | Blaine Tech |
| | 4/11/2011 | 74.29 | 26.21 | --- | --- | 48.08 | Blaine Tech |
| | 10/10/2011 | 74.29 | 30.02 | --- | --- | 44.27 | Blaine Tech |
| | 4/16/2012 | 74.29 | 31.30 | --- | --- | 42.99 | Blaine Tech |
| | 7/9/2012 | --- | NM | --- | --- | NC | Blaine Tech |
| | 10/15/2012 | 78.14 | 31.88 | --- | --- | 46.26 | Blaine Tech |
| | 4/8/2013 | 78.14 | 32.11 | --- | --- | 46.03 | Blaine Tech |
| | 10/7/2013 | 78.14 | 33.23 | 33.10 | 0.13 | 45.01 | Blaine Tech |
| | 4/14/2014 | 78.14 | 37.40 | 33.00 | 4.40 | 44.13 | Blaine Tech |
| | 5/5/2014 | 78.14 | 37.51 | 33.06 | 4.45 | 44.06 | Nieto & Sons |
| | 5/12/2014 | 78.14 | 34.97 | 33.73 | 1.24 | 44.12 | Nieto & Sons |
| | 5/20/2014 | 78.14 | 36.75 | 34.30 | 2.45 | 43.28 | Nieto & Sons |
| | 5/27/2014 | 78.14 | 34.64 | 34.44 | 0.20 | 43.65 | Nieto & Sons |
| | 6/4/2014 | 78.14 | 35.00 | --- | --- | 43.14 | Nieto & Sons |
| | 6/10/2014 | 78.14 | 36.67 | 34.18 | 2.49 | 43.39 | Nieto & Sons |
| | 7/3/2014 | 78.14 | 34.21 | --- | --- | 43.93 | Nieto & Sons |
| | 7/24/2014 | 78.14 | 34.29 | --- | --- | 43.85 | Blaine Tech |
| | 8/1/2014 | 78.14 | 35.02 | 33.99 | 1.03 | 43.91 | Blaine Tech |
| | 8/8/2014 | 78.14 | 34.54 | 34.06 | 0.48 | 43.97 | Blaine Tech |
| | 8/14/2014 | 78.14 | 34.48 | 34.06 | 0.42 | 43.98 | Blaine Tech |
| | 8/19/2014 | 78.14 | 34.51 | 34.07 | 0.44 | 43.97 | Blaine Tech |
| | 8/29/2014 | 78.14 | 34.65 | 33.96 | 0.69 | 44.02 | Blaine Tech |
| | 9/18/2014 | 78.14 | 35.21 | 34.01 | 1.20 | 43.85 | Blaine Tech |
| | 9/26/2014 | 78.14 | 34.87 | 34.06 | 0.81 | 43.89 | Blaine Tech |
| | 10/1/2014 | 78.14 | 34.92 | 33.98 | 0.94 | 43.94 | Blaine Tech |
| | 10/6/2014 | 78.14 | 34.93 | 33.99 | 0.94 | 43.93 | Blaine Tech |
| | 10/14/2014 | 78.14 | 35.10 | 33.91 | 1.19 | 43.96 | Blaine Tech |
| | 10/23/2014 | 78.14 | 35.34 | 33.91 | 1.43 | 43.90 | Blaine Tech |
| | 10/27/2014 | 78.14 | 34.78 | 33.95 | 0.83 | 44.00 | Blaine Tech |
| | 11/3/2014 | 78.14 | 34.92 | 33.98 | 0.94 | 43.94 | Blaine Tech |
| | 11/10/2014 | 78.14 | 35.12 | 34.02 | 1.10 | 43.87 | Blaine Tech |
| | 11/18/2014 | 78.14 | 34.90 | 34.11 | 0.79 | 43.85 | Blaine Tech |
| | 11/25/2014 | 78.14 | 35.07 | 34.07 | 1.00 | 43.84 | Blaine Tech |
| | 12/3/2014 | 78.14 | 35.10 | 33.98 | 1.12 | 43.90 | Blaine Tech |
| | 12/12/2014 | 78.14 | 35.22 | 34.30 | 0.92 | 43.63 | Blaine Tech |

Table 8. 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 | 78.14 | 35.05 | 34.50 | 0.55 | 43.51 | Blaine Tech |
| | 4/20/2015 | 78.14 | 35.19 | 34.47 | 0.72 | 43.50 | Blaine Tech |
| | 6/25/2015 | 78.14 | 36.35 | 35.40 | 0.95 | 42.52 | Blaine Tech |
| | 10/20/2015 | 78.14 | 35.40 | 35.38 | 0.02 | 42.76 | Kinder Morgan |
| | 3/16/2016 | 78.14 | 38.99 | --- | --- | 39.15 | Kinder Morgan |
| | 4/12/2016 | 78.14 | 37.15 | --- | --- | 40.99 | Kinder Morgan |
| | 6/29/2016 | 78.14 | 38.40 | --- | --- | 39.74 | Blaine Tech |
| | 8/22/2016 | 78.14 | 38.44 | --- | --- | 39.70 | Blaine Tech |
| GMW-36 | 3/12/2007 | 74.53 | 24.29 | --- | --- | 50.24 | Secor |
| | 4/30/2007 | 74.53 | 24.40 | --- | --- | 50.13 | Secor |
| | 8/28/2007 | 74.53 | 24.31 | --- | --- | 50.22 | Stantec |
| | 11/12/2007 | 74.53 | 24.86 | 24.85 | 0.01 | 49.68 | Stantec |
| | 2/19/2008 | 74.53 | 25.50 | --- | --- | 49.03 | Stantec |
| | 4/14/2008 | 74.53 | 24.61 | --- | --- | 49.92 | Stantec |
| | 8/8/2008 | 74.53 | 26.20 | 26.14 | 0.06 | 48.38 | Envent |
| | 10/16/2008 | 74.77 | 26.11 | 26.09 | 0.02 | 48.68 | Envent |
| | 12/18/2008 | 74.53 | 28.70 | 28.65 | 0.05 | 45.87 | Envent |
| | 1/15/2009 | 74.53 | 27.73 | 27.45 | 0.28 | 47.02 | Envent |
| | 2/20/2009 | 74.53 | 26.39 | 26.35 | 0.04 | 48.17 | Envent |
| | 2/23/2009 | 74.53 | 26.13 | 25.80 | 0.33 | 48.66 | Blaine Tech |
| | 3/24/2009 | 74.53 | 29.83 | --- | --- | 44.70 | Envent |
| | 4/20/2009 | 74.53 | 25.63 | 25.59 | 0.04 | 48.93 | Blaine Tech |
| | 7/17/2009 | 74.53 | 27.40 | --- | --- | 47.13 | Envent |
| | 7/20/2009 | 74.53 | 25.90 | --- | --- | 48.63 | Blaine Tech |
| | 7/21/2009 | 74.53 | 26.03 | --- | --- | 48.50 | Envent |
| | 7/22/2009 | 74.53 | 25.90 | --- | --- | 48.63 | Blaine Tech |
| | 10/19/2009 | 74.53 | 26.56 | 26.45 | 0.11 | 48.06 | Blaine Tech |
| | 2/4/2010 | 74.53 | 26.93 | 26.80 | 0.13 | 47.70 | Kinder Morgan |
| | 3/15/2010 | 74.53 | 26.80 | --- | --- | 47.73 | Blaine Tech |
| | 4/16/2010 | 74.53 | 26.90 | --- | --- | 47.63 | Blaine Tech |
| | 5/24/2010 | 74.53 | 25.96 | 25.90 | 0.06 | 48.62 | Blaine Tech |
| | 5/28/2010 | 74.53 | 25.94 | 25.88 | 0.06 | 48.64 | Blaine Tech |
| | 6/22/2010 | 74.53 | 25.94 | 25.91 | 0.03 | 48.61 | Blaine Tech |
| | 7/12/2010 | 74.53 | NM | --- | --- | NC | |
| | 8/12/2010 | 74.53 | NM | --- | --- | NC | |
| | 9/20/2010 | 74.53 | NM | --- | --- | NC | |
| | 10/4/2010 | 74.53 | 26.90 | --- | --- | 47.63 | |
| | 10/24/2010 | 74.53 | 26.90 | --- | --- | 47.63 | Blaine Tech |
| | 11/23/2010 | 74.53 | 27.35 | 27.10 | 0.25 | 47.38 | Blaine Tech |
| | 12/22/2010 | 74.53 | 28.35 | 26.84 | 1.51 | 47.39 | Blaine Tech |
| | 1/10/2011 | 74.53 | 29.10 | 27.70 | 1.40 | 46.55 | Blaine Tech |
| | 2/24/2011 | 74.53 | NM | --- | --- | NC | Blaine Tech |
| | 3/23/2011 | 74.53 | NM | --- | --- | NC | Blaine Tech |
| | 4/12/2011 | 74.53 | 26.98 | 25.05 | 1.93 | 49.09 | Blaine Tech |
| | 5/13/2011 | 74.53 | NM | --- | --- | NC | Blaine Tech |
| | 6/22/2011 | 74.53 | NM | --- | --- | NC | |
| | 7/11/2011 | 74.53 | NM | --- | --- | NC | |
| | 8/19/2011 | 74.53 | NM | --- | --- | NC | |
| | 9/22/2011 | 74.53 | NM | --- | --- | NC | |
| | 10/10/2011 | 74.53 | 25.96 | --- | --- | 48.57 | Blaine Tech |
| | 11/28/2011 | 74.53 | NM | --- | --- | NC | |
| | 12/2/2011 | 74.53 | 26.71 | --- | --- | 47.82 | Kinder Morgan |
| | 12/21/2011 | 74.53 | 28.17 | --- | --- | 46.36 | Blaine Tech |
| | 1/9/2012 | 74.53 | 27.26 | --- | --- | 47.27 | Blaine Tech |
| | 2/23/2012 | 74.53 | 27.85 | --- | --- | 46.68 | Blaine Tech |
| | 3/28/2012 | 74.53 | NM | --- | --- | NC | Blaine Tech |
| | 4/16/2012 | 74.53 | 27.34 | --- | --- | 47.19 | Blaine Tech |
| | 5/25/2012 | 74.53 | NM | --- | --- | NC | Blaine Tech |
| | 6/15/2012 | --- | 33.27 | --- | --- | NC | Blaine Tech |
| | 7/9/2012 | --- | 33.71 | --- | --- | NC | Blaine Tech |
| | 8/29/2012 | --- | NM | --- | --- | NC | Blaine Tech |
| | 9/26/2012 | --- | NM | --- | --- | NC | Blaine Tech |
| | 10/15/2012 | 76.66 | 32.11 | --- | --- | 44.55 | Blaine Tech |
| | 11/29/2012 | 76.66 | 33.93 | 31.68 | 2.25 | 44.53 | Blaine Tech |
| | 12/26/2012 | 76.66 | 34.86 | 30.36 | 4.50 | 45.40 | Blaine Tech |
| | 1/14/2013 | 76.66 | 34.12 | 30.42 | 3.70 | 45.50 | Blaine Tech |
| | 2/20/2013 | 76.66 | NM | --- | --- | NC | Blaine Tech |
| | 4/10/2013 | 76.66 | 32.42 | 29.75 | 2.67 | 46.38 | Blaine Tech |

Table 8. 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 |
|----------|-------------|---|---|---------------------------------------|-----------------------------------|--|---------------|
| | 10/7/2013 | 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 |
| | 10/21/2015 | 76.66 | 33.55 | 33.16 | 0.39 | 43.42 | Blaine Tech |
| | 4/12/2016 | 76.66 | 34.30 | 34.03 | 0.27 | 42.58 | Kinder Morgan |
| GMW-O-11 | 4/30/2007 | 74.17 | 23.91 | 23.90 | 0.01 | 50.27 | Secor |
| | 11/12/2007 | 74.17 | 24.40 | --- | --- | 49.77 | Stantec |
| | 8/15/2008 | 74.17 | 29.30 | --- | --- | 44.87 | Envent |
| | 10/17/2008 | 74.17 | 24.45 | --- | --- | 49.72 | Envent |
| | 12/19/2008 | 74.17 | 24.85 | --- | --- | 49.32 | Envent |
| | 1/15/2009 | 74.17 | 26.87 | 24.38 | 2.49 | 49.29 | Envent |
| | 2/24/2009 | 74.17 | 24.31 | 24.21 | 0.10 | 49.94 | Envent |
| | 3/27/2009 | 74.17 | 31.08 | --- | --- | 43.09 | Envent |
| | 4/21/2009 | 74.17 | 25.36 | 25.34 | 0.02 | 48.83 | Envent |
| | 7/21/2009 | 74.17 | 26.18 | --- | --- | 47.99 | Envent |
| | 10/19/2009 | 74.17 | NM | --- | --- | NC | Blaine Tech |
| | 11/6/2009 | 74.17 | 26.33 | 26.18 | 0.15 | 47.96 | Kinder Morgan |
| | 10/4/2010 | 74.17 | 30.00 | --- | --- | 44.17 | Blaine Tech |
| | 4/13/2011 | 74.17 | 24.19 | --- | --- | 49.98 | Blaine Tech |
| | 10/10/2011 | 74.17 | 24.38 | --- | --- | 49.79 | Blaine Tech |
| | 4/16/2012 | 74.17 | NM | --- | --- | NC | Blaine Tech |
| | 7/9/2012 | 74.17 | NM | --- | --- | NC | Blaine Tech |
| | 10/15/2012 | 74.17 | 28.12 | --- | --- | 46.05 | Blaine Tech |
| | 4/8/2013 | 74.17 | NM | --- | --- | NC | Blaine Tech |
| | 9/24/2013 | 74.17 | 31.25 | 28.15 | 3.10 | 45.40 | Blaine Tech |
| | 10/7/2013 | 74.17 | 31.19 | 27.69 | 3.50 | 45.78 | Blaine Tech |
| | 4/25/2014 | 74.17 | 28.96 | 28.62 | 0.34 | 45.48 | Blaine Tech |
| | 9/5/2014 | 74.17 | 31.13 | 27.89 | 3.24 | 45.63 | Blaine Tech |
| | 9/11/2014 | 74.17 | 31.12 | 27.85 | 3.27 | 45.67 | Blaine Tech |
| | 9/18/2014 | 74.17 | 31.22 | 27.85 | 3.37 | 45.65 | Blaine Tech |
| | 9/26/2014 | 74.17 | 31.34 | 27.91 | 3.43 | 45.57 | Blaine Tech |
| | 10/1/2014 | 74.17 | 31.19 | 27.84 | 3.35 | 45.66 | Blaine Tech |
| | 10/6/2014 | 74.17 | 32.19 | 27.84 | 4.35 | 45.46 | Blaine Tech |
| | 10/14/2014 | 74.17 | 31.18 | 28.85 | 2.33 | 44.85 | Blaine Tech |
| | 10/23/2014 | 74.17 | 31.34 | 27.85 | 3.49 | 45.62 | Blaine Tech |
| | 10/27/2014 | 74.17 | 31.28 | 28.89 | 2.39 | 44.80 | Blaine Tech |
| | 11/3/2014 | 74.17 | 32.34 | 27.83 | 4.51 | 45.44 | Blaine Tech |
| | 11/10/2014 | 74.17 | 31.46 | 27.97 | 3.49 | 45.50 | Blaine Tech |
| | 11/18/2014 | 74.17 | 31.41 | 27.88 | 3.53 | 45.58 | Blaine Tech |
| | 11/25/2014 | 74.17 | 31.48 | 27.87 | 3.61 | 45.58 | Blaine Tech |
| | 12/3/2014 | 74.17 | 33.34 | 29.95 | 3.39 | 43.54 | Blaine Tech |
| | 12/12/2014 | 74.17 | 33.25 | 29.08 | 4.17 | 44.26 | Blaine Tech |
| | 12/19/2014 | 74.17 | 32.52 | 28.09 | 4.43 | 45.19 | Blaine Tech |
| | 4/22/2015 | 74.17 | 31.54 | 28.10 | 3.44 | 45.38 | Blaine Tech |
| | 10/22/2015 | 74.17 | 33.08 | 29.23 | 3.85 | 44.17 | Kinder Morgan |
| | 3/16/2016 | 74.17 | 33.39 | 33.16 | 0.23 | 40.96 | Kinder Morgan |
| | 4/12/2016 | 74.17 | 33.33 | 33.12 | 0.21 | 41.01 | Kinder Morgan |
| | 6/30/2016 | 74.17 | 31.50 | --- | --- | 42.67 | Kinder Morgan |
| | 8/22/2016 | 74.17 | 32.75 | 32.74 | 0.01 | 41.43 | Kinder Morgan |

Table 8. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

| Well ID | Date Gauged | Top of Well Casing Elevation (feet msl) | Measured Depth to Groundwater (feet btoc) | Measured Depth to Product (feet btoc) | Apparent Product Thickness (feet) | Corrected Groundwater Elevation (feet msl) | Gauged By |
|------------|-------------|---|---|---------------------------------------|-----------------------------------|--|--------------|
| GMW-O-12 | 4/30/2007 | 73.49 | 22.81 | --- | --- | 50.68 | Secor |
| | 11/12/2007 | 73.49 | 23.13 | --- | --- | 50.36 | Stantec |
| | 4/14/2008 | 73.49 | 23.36 | --- | --- | 50.13 | Stantec |
| | 10/13/2008 | 73.49 | 24.20 | --- | --- | 49.29 | Stantec |
| | 4/20/2009 | 73.49 | 24.21 | --- | --- | 49.28 | Blaine Tech |
| | 10/19/2009 | 73.49 | 25.08 | --- | --- | 48.41 | Blaine Tech |
| | 5/24/2010 | 73.49 | 24.80 | --- | --- | 48.69 | Blaine Tech |
| | 5/28/2010 | 73.49 | 24.74 | --- | --- | 48.75 | Blaine Tech |
| | 10/4/2010 | 73.49 | 25.31 | 25.20 | 0.11 | 48.27 | Blaine Tech |
| | 1/10/2011 | 73.49 | 26.42 | 26.32 | 0.10 | 47.15 | Blaine Tech |
| | 4/11/2011 | 73.49 | 24.04 | --- | --- | 49.45 | Blaine Tech |
| | 7/11/2011 | 73.49 | NM | --- | --- | NC | |
| | 10/10/2011 | 73.49 | 24.68 | --- | --- | 48.81 | Blaine Tech |
| | 1/9/2012 | 73.49 | 25.12 | --- | --- | 48.37 | Blaine Tech |
| | 4/16/2012 | 73.49 | 25.40 | --- | --- | 48.09 | Blaine Tech |
| | 7/9/2012 | 73.49 | 26.96 | --- | --- | 46.53 | Blaine Tech |
| | 10/15/2012 | 73.49 | 25.48 | 25.44 | 0.04 | 48.04 | Blaine Tech |
| | 1/14/2013 | 73.49 | 25.62 | 25.58 | 0.04 | 47.90 | Blaine Tech |
| | 4/8/2013 | 73.49 | 26.60 | 26.51 | 0.09 | 46.96 | Blaine Tech |
| | 9/24/2013 | 73.49 | 27.90 | 27.74 | 0.16 | 45.72 | Blaine Tech |
| | 10/7/2013 | 73.49 | 27.34 | 27.28 | 0.06 | 46.20 | Blaine Tech |
| | 4/14/2014 | 73.49 | 30.34 | 26.80 | 3.54 | 45.96 | Blaine Tech |
| | 5/6/2014 | 73.49 | 30.93 | 26.74 | 4.19 | 45.89 | Nieto & Sons |
| | 5/12/2014 | 73.49 | 30.81 | 26.82 | 3.99 | 45.85 | Nieto & Sons |
| | 5/20/2014 | 73.49 | 31.78 | 27.32 | 4.46 | 45.26 | Nieto & Sons |
| | 5/27/2014 | 73.49 | 33.04 | 26.78 | 6.26 | 45.43 | Nieto & Sons |
| | 6/4/2014 | 73.49 | 33.00 | 27.75 | 5.25 | 44.66 | Nieto & Sons |
| | 6/10/2014 | 73.49 | 34.53 | 26.81 | 7.72 | 45.10 | Nieto & Sons |
| | 7/3/2014 | 73.49 | 34.27 | 26.94 | 7.33 | 45.05 | Blaine Tech |
| | 7/8/2014 | 73.49 | 33.87 | 26.87 | 7.00 | 45.19 | Blaine Tech |
| | 7/18/2014 | 73.49 | 33.36 | 27.07 | 6.29 | 45.13 | Blaine Tech |
| | 7/24/2014 | 73.49 | 33.00 | 26.98 | 6.02 | 45.28 | Blaine Tech |
| | 8/1/2014 | 73.49 | 31.80 | 26.83 | 4.97 | 45.64 | Blaine Tech |
| | 8/8/2014 | 73.49 | 31.26 | 26.91 | 4.35 | 45.69 | Blaine Tech |
| | 8/13/2014 | 73.49 | 31.18 | 26.88 | 4.30 | 45.73 | Blaine Tech |
| | 8/19/2014 | 73.49 | 31.01 | 26.86 | 4.15 | 45.78 | Blaine Tech |
| | 8/29/2014 | 73.49 | 31.03 | 26.89 | 4.14 | 45.75 | Blaine Tech |
| | 9/5/2014 | 73.49 | 31.19 | 26.88 | 4.31 | 45.73 | Blaine Tech |
| | 9/18/2014 | 73.49 | 31.30 | 26.82 | 4.48 | 45.75 | Blaine Tech |
| | 9/26/2014 | 73.49 | 31.33 | 26.89 | 4.44 | 45.69 | Blaine Tech |
| | 10/1/2014 | 73.49 | 31.21 | 26.85 | 4.36 | 45.75 | Blaine Tech |
| | 10/6/2014 | 73.49 | 31.20 | 29.84 | 1.36 | 43.37 | Blaine Tech |
| | 10/14/2014 | 73.49 | 31.14 | 26.86 | 4.28 | 45.75 | Blaine Tech |
| | 10/23/2014 | 73.49 | 31.30 | 26.85 | 4.45 | 45.73 | Blaine Tech |
| | 10/27/2014 | 73.49 | 31.28 | 26.90 | 4.38 | 45.69 | Blaine Tech |
| | 11/3/2014 | 73.49 | 32.30 | 26.84 | 5.46 | 45.53 | Blaine Tech |
| | 11/10/2014 | 73.49 | 31.45 | 26.91 | 4.54 | 45.65 | Blaine Tech |
| | 11/18/2014 | 73.49 | 32.34 | 26.90 | 5.44 | 45.47 | Blaine Tech |
| | 11/25/2014 | 73.49 | 31.57 | 27.87 | 3.70 | 44.86 | Blaine Tech |
| | 12/3/2014 | 73.49 | 33.87 | 28.81 | 5.06 | 43.64 | Blaine Tech |
| 12/19/2014 | 73.49 | 32.78 | 26.97 | 5.81 | 45.33 | Blaine Tech | |
| 4/20/2015 | 73.49 | 33.35 | 26.91 | 6.44 | 45.26 | Blaine Tech | |
| 4/22/2015 | 73.49 | 33.35 | 26.91 | 6.44 | 45.26 | Blaine Tech | |
| 5/21/2015 | 73.49 | 34.31 | 27.35 | 6.96 | 44.71 | Northstar | |
| 5/29/2015 | 73.49 | 34.15 | 27.24 | 6.91 | 44.83 | Northstar | |
| 6/2/2015 | 73.49 | 34.00 | 27.27 | 6.73 | 44.84 | Northstar | |
| 6/5/2015 | 73.49 | 34.00 | 27.50 | 6.50 | 44.66 | Northstar | |
| 6/12/2015 | 73.49 | 33.96 | 27.35 | 6.61 | 44.78 | Northstar | |
| 6/19/2015 | 73.49 | 33.98 | 27.58 | 6.40 | 44.60 | Northstar | |
| 6/26/2015 | 73.49 | 33.97 | 28.15 | 5.82 | 44.15 | Northstar | |
| 7/2/2015 | 73.49 | 33.83 | 28.20 | 5.63 | 44.14 | Northstar | |
| 7/7/2015 | 73.49 | 33.60 | 27.93 | 5.67 | 44.40 | Northstar | |
| 7/17/2015 | 73.49 | 33.57 | 27.85 | 5.72 | 44.47 | Northstar | |
| 7/24/2015 | 73.49 | 33.15 | 28.25 | 4.90 | 44.24 | Northstar | |
| 7/29/2015 | 73.49 | 33.02 | 28.10 | 4.92 | 44.38 | Northstar | |
| 8/11/2015 | 73.49 | 33.00 | 28.90 | 4.10 | 43.75 | Northstar | |
| 8/18/2015 | 73.49 | 32.65 | 28.23 | 4.42 | 44.35 | Northstar | |
| 8/28/2015 | 73.49 | 32.41 | 28.17 | 4.24 | 44.45 | Kinder Morgan | |

Table 8. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPD 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 |
|----------|-------------|---|---|---------------------------------------|-----------------------------------|--|---------------|
| | 9/1/2015 | 73.49 | 33.18 | 28.65 | 4.53 | 43.91 | Kinder Morgan |
| | 9/25/2015 | 73.49 | 34.69 | 28.03 | 6.66 | 44.09 | Kinder Morgan |
| | 10/16/2015 | 73.49 | 34.63 | 27.83 | 6.80 | 44.27 | Kinder Morgan |
| | 10/19/2015 | 73.49 | 34.65 | 27.82 | 6.83 | 44.27 | Blaine Tech |
| | 10/30/2015 | 73.49 | 39.38 | 28.11 | 11.27 | 43.07 | Kinder Morgan |
| | 3/14/2016 | 73.49 | 32.40 | 31.60 | 0.80 | 41.73 | Blaine Tech |
| | 4/11/2016 | 73.49 | 33.35 | 26.86 | 6.49 | 45.30 | Blaine Tech |
| | 6/29/2016 | 73.49 | 33.90 | 33.10 | 0.80 | 40.23 | Blaine Tech |
| | 8/22/2016 | 73.49 | 33.56 | 31.07 | 2.49 | 41.91 | Blaine Tech |
| GMW-O-15 | 4/30/2007 | 74.23 | 23.41 | 23.30 | 0.11 | 50.91 | Secor |
| | 11/12/2007 | 74.23 | 23.95 | 23.85 | 0.10 | 50.36 | Stantec |
| | 4/14/2008 | 74.23 | 23.64 | --- | --- | 50.59 | Stantec |
| | 8/8/2008 | 74.23 | 24.60 | --- | --- | 49.63 | Envent |
| | 8/11/2008 | 74.23 | 24.40 | 24.34 | 0.06 | 49.88 | Stantec |
| | 10/16/2008 | 74.23 | 24.53 | --- | --- | 49.70 | Envent |
| | 12/18/2008 | 74.23 | 24.86 | --- | --- | 49.37 | Envent |
| | 1/2/2009 | 74.23 | 24.82 | --- | --- | 49.41 | Envent |
| | 1/15/2009 | 74.23 | 26.01 | --- | --- | 48.22 | Envent |
| | 2/20/2009 | 74.23 | 24.80 | --- | --- | 49.43 | Envent |
| | 2/23/2009 | 74.23 | 24.76 | 24.74 | 0.02 | 49.49 | Blaine Tech |
| | 3/24/2009 | 74.23 | 25.55 | --- | --- | 48.68 | Envent |
| | 4/20/2009 | 74.23 | 24.66 | 24.61 | 0.05 | 49.61 | Blaine Tech |
| | 7/17/2009 | 74.23 | 25.01 | --- | --- | 49.22 | Envent |
| | 7/20/2009 | 74.23 | 24.99 | 24.94 | 0.05 | 49.28 | Blaine Tech |
| | 7/22/2009 | 74.23 | 24.99 | 24.94 | 0.05 | 49.28 | Blaine Tech |
| | 10/19/2009 | 74.23 | 25.55 | 25.43 | 0.12 | 48.78 | Blaine Tech |
| | 2/4/2010 | 74.23 | 25.50 | 25.48 | 0.02 | 48.75 | Kinder Morgan |
| | 3/15/2010 | 74.23 | NM | --- | --- | NC | |
| | 4/16/2010 | 74.23 | 23.10 | --- | --- | 51.13 | Blaine Tech |
| | 5/24/2010 | 74.23 | 25.67 | --- | --- | 48.56 | Blaine Tech |
| | 5/28/2010 | 74.23 | 25.35 | --- | --- | 48.88 | Blaine Tech |
| | 6/22/2010 | 74.23 | 25.81 | --- | --- | 48.42 | Blaine Tech |
| | 7/12/2010 | 74.23 | NM | --- | --- | NC | |
| | 8/12/2010 | 74.23 | NM | --- | --- | NC | |
| | 9/20/2010 | 74.23 | NM | --- | --- | NC | |
| | 10/4/2010 | 74.23 | 25.85 | 25.80 | 0.05 | 48.42 | Blaine Tech |
| | 11/23/2010 | 74.23 | NM | --- | --- | NC | Blaine Tech |
| | 12/22/2010 | 74.23 | 26.31 | --- | --- | 47.92 | Blaine Tech |
| | 1/10/2011 | 74.23 | 25.97 | --- | --- | 48.26 | Blaine Tech |
| | 2/24/2011 | 74.23 | NM | --- | --- | NC | Blaine Tech |
| | 3/23/2011 | 74.23 | NM | --- | --- | NC | Blaine Tech |
| | 4/12/2011 | 74.23 | 22.55 | 22.53 | 0.02 | 51.70 | Blaine Tech |
| | 5/13/2011 | 74.23 | NM | --- | --- | NC | Blaine Tech |
| | 6/22/2011 | 74.23 | NM | --- | --- | NC | |
| | 7/11/2011 | 74.23 | NM | --- | --- | NC | |
| | 8/19/2011 | 74.23 | NM | --- | --- | NC | |
| | 9/22/2011 | 74.23 | NM | --- | --- | NC | |
| | 10/10/2011 | 74.23 | 23.79 | 23.22 | 0.57 | 50.90 | Blaine Tech |
| | 11/28/2011 | 74.23 | NM | --- | --- | NC | |
| | 12/2/2011 | 74.23 | 23.92 | 23.86 | 0.06 | 50.36 | Kinder Morgan |
| | 12/21/2011 | 74.23 | 31.13 | --- | --- | 43.10 | Blaine Tech |
| | 1/9/2012 | 74.23 | 27.67 | --- | --- | 46.56 | Blaine Tech |
| | 2/23/2012 | 74.23 | 31.82 | --- | --- | 42.41 | Blaine Tech |
| | 3/28/2012 | 74.23 | 30.30 | --- | --- | 43.93 | Blaine Tech |
| | 4/16/2012 | 74.23 | 26.56 | 26.51 | 0.05 | 47.71 | Blaine Tech |
| | 5/25/2012 | 74.23 | 26.64 | --- | --- | 47.59 | Blaine Tech |
| | 6/15/2012 | 74.23 | 26.93 | --- | --- | 47.30 | Blaine Tech |
| | 7/9/2012 | 74.23 | 25.47 | --- | --- | 48.76 | Blaine Tech |
| | 8/29/2012 | 74.23 | NM | --- | --- | NC | Blaine Tech |
| | 9/26/2012 | 74.23 | 30.64 | --- | --- | 43.59 | Blaine Tech |
| | 10/15/2012 | 74.23 | 31.82 | --- | --- | 42.41 | Blaine Tech |
| | 11/29/2012 | 74.23 | NM | --- | --- | NC | Blaine Tech |
| | 12/26/2012 | 74.23 | 27.41 | --- | --- | 46.82 | Blaine Tech |
| | 1/14/2013 | 74.23 | 27.62 | --- | --- | 46.61 | Blaine Tech |
| | 2/20/2013 | 74.23 | NM | --- | --- | NC | Blaine Tech |
| | 4/10/2013 | 74.23 | NM | --- | --- | NC | Blaine Tech |
| | 4/26/2013 | 74.23 | 27.90 | --- | --- | 46.33 | Kinder Morgan |
| | 10/7/2013 | 74.23 | 29.03 | 28.26 | 0.77 | 45.82 | Blaine Tech |

Table 8. 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 |
|----------|-------------|---|---|---------------------------------------|-----------------------------------|--|---------------|
| | 4/18/2014 | 74.23 | 28.40 | 28.08 | 0.32 | 46.09 | Blaine Tech |
| | 8/14/2014 | 74.23 | 32.59 | 28.26 | 4.33 | 45.10 | Blaine Tech |
| | 8/19/2014 | 74.23 | 32.34 | 28.23 | 4.11 | 45.18 | Blaine Tech |
| | 8/29/2014 | 74.23 | 31.84 | 28.25 | 3.59 | 45.26 | Blaine Tech |
| | 9/5/2014 | 74.23 | 31.91 | 28.29 | 3.62 | 45.22 | Blaine Tech |
| | 9/11/2014 | 74.23 | 32.16 | 28.79 | 3.37 | 44.77 | Blaine Tech |
| | 9/18/2014 | 74.23 | 32.50 | 28.23 | 4.27 | 45.15 | Blaine Tech |
| | 9/26/2014 | 74.23 | 32.20 | 28.27 | 3.93 | 45.17 | Blaine Tech |
| | 10/1/2014 | 74.23 | 31.93 | 28.28 | 3.65 | 45.22 | Blaine Tech |
| | 10/6/2014 | 74.23 | 31.91 | 28.27 | 3.64 | 45.23 | Blaine Tech |
| | 10/14/2014 | 74.23 | 31.85 | 28.29 | 3.56 | 45.23 | Blaine Tech |
| | 10/23/2014 | 74.23 | 32.10 | 28.30 | 3.80 | 45.17 | Blaine Tech |
| | 10/27/2014 | 74.23 | 31.89 | 28.30 | 3.59 | 45.21 | Blaine Tech |
| | 11/18/2014 | 74.23 | 31.86 | 28.39 | 3.47 | 45.15 | Blaine Tech |
| | 11/25/2014 | 74.23 | 32.36 | 28.35 | 4.01 | 45.08 | Blaine Tech |
| | 12/3/2014 | 74.23 | 31.73 | 28.36 | 3.37 | 45.20 | Blaine Tech |
| | 12/12/2014 | 74.23 | 32.61 | 28.54 | 4.07 | 44.88 | Blaine Tech |
| | 12/19/2014 | 74.23 | 32.62 | 28.37 | 4.25 | 45.01 | Blaine Tech |
| | 4/20/2015 | 74.23 | 31.93 | 28.82 | 3.11 | 44.79 | Blaine Tech |
| | 10/19/2015 | 74.23 | 31.91 | 28.89 | 3.02 | 44.74 | Blaine Tech |
| | 4/12/2016 | 74.23 | 29.78 | --- | --- | 44.45 | Kinder Morgan |
| GMW-O-18 | 4/30/2007 | 74.36 | 24.21 | --- | --- | 50.15 | Secor |
| | 11/12/2007 | 74.36 | 22.46 | --- | --- | 51.90 | Secor |
| | 4/14/2008 | 74.36 | 24.50 | --- | --- | 49.86 | Secor |
| | 10/13/2008 | 74.36 | 25.46 | --- | --- | 48.90 | Stantec |
| | 4/20/2009 | 74.36 | 25.59 | --- | --- | 48.77 | Blaine Tech |
| | 10/19/2009 | 74.36 | 26.31 | --- | --- | 48.05 | Blaine Tech |
| | 3/15/2010 | 74.36 | 26.54 | --- | --- | 47.82 | Blaine Tech |
| | 4/16/2010 | 74.36 | 24.25 | --- | --- | 50.11 | Blaine Tech |
| | 5/24/2010 | 74.36 | 26.26 | --- | --- | 48.10 | Blaine Tech |
| | 5/28/2010 | 74.36 | 26.03 | --- | --- | 48.33 | Blaine Tech |
| | 6/22/2010 | 74.36 | 26.41 | --- | --- | 47.95 | |
| | 7/12/2010 | 74.36 | NM | --- | --- | NC | |
| | 8/12/2010 | 74.36 | NM | --- | --- | NC | |
| | 9/20/2010 | 74.36 | NM | --- | --- | NC | |
| | 10/4/2010 | 74.36 | 29.95 | --- | --- | 44.41 | Blaine Tech |
| | 11/16/2010 | 74.36 | NM | --- | --- | NC | |
| | 12/22/2010 | 74.36 | NM | --- | --- | NC | |
| | 1/10/2011 | 74.36 | NM | --- | --- | NC | |
| | 2/24/2011 | 74.36 | NM | --- | --- | NC | Blaine Tech |
| | 3/23/2011 | 74.36 | NM | --- | --- | NC | Blaine Tech |
| | 4/12/2011 | 74.36 | NM | --- | --- | NC | Blaine Tech |
| | 5/13/2011 | 74.36 | NM | --- | --- | NC | Blaine Tech |
| | 6/22/2011 | 74.36 | NM | --- | --- | NC | |
| | 7/11/2011 | 74.36 | NM | --- | --- | NC | |
| | 8/19/2011 | 74.36 | NM | --- | --- | NC | |
| | 9/22/2011 | 74.36 | NM | --- | --- | NC | |
| | 10/10/2011 | 74.36 | 23.68 | --- | --- | 50.68 | Blaine Tech |
| | 11/28/2011 | 74.36 | NM | --- | --- | NC | |
| | 12/2/2011 | 74.36 | 24.22 | --- | --- | 50.14 | Blaine Tech |
| | 12/21/2011 | 74.36 | 27.14 | --- | --- | 47.22 | Blaine Tech |
| | 2/23/2012 | 74.36 | 31.18 | --- | --- | 43.18 | Blaine Tech |
| | 3/28/2012 | 74.36 | NM | --- | --- | NC | Blaine Tech |
| | 4/16/2012 | 74.36 | 27.10 | --- | --- | 47.26 | Blaine Tech |
| | 5/25/2012 | 74.36 | 27.31 | --- | --- | 47.05 | Blaine Tech |
| | 6/15/2012 | 74.36 | 35.13 | --- | --- | 39.23 | Blaine Tech |
| | 7/9/2012 | 74.36 | 29.51 | --- | --- | 44.85 | Blaine Tech |
| | 8/29/2012 | 74.36 | NM | --- | --- | NC | Blaine Tech |
| | 9/26/2012 | 74.36 | 30.83 | --- | --- | 43.53 | Blaine Tech |
| | 10/15/2012 | 74.36 | 29.73 | --- | --- | 44.63 | Blaine Tech |
| | 11/29/2012 | 74.36 | NM | --- | --- | NC | Blaine Tech |
| | 12/26/2012 | 74.36 | 28.87 | --- | --- | 45.49 | Blaine Tech |
| | 1/14/2013 | 74.36 | 28.92 | --- | --- | 45.44 | Blaine Tech |
| | 2/20/2013 | 74.36 | NM | --- | --- | NC | Blaine Tech |
| | 4/10/2013 | 74.36 | 28.10 | --- | --- | 46.26 | Blaine Tech |
| | 10/7/2013 | 74.36 | 26.67 | --- | --- | 47.69 | Blaine Tech |
| | 4/18/2014 | 74.36 | 29.43 | 29.37 | 0.06 | 44.98 | Blaine Tech |
| | 8/14/2014 | 74.36 | 29.87 | 29.45 | 0.42 | 44.83 | Blaine Tech |

Table 8. 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 |
|----------|-------------|---|---|---------------------------------------|-----------------------------------|--|---------------|
| | 8/19/2014 | 74.36 | 29.97 | 29.58 | 0.39 | 44.70 | Blaine Tech |
| | 8/29/2014 | 74.36 | 29.77 | 29.34 | 0.43 | 44.93 | Blaine Tech |
| | 9/11/2014 | 74.36 | 29.96 | 29.61 | 0.35 | 44.68 | Blaine Tech |
| | 9/18/2014 | 74.36 | 29.95 | 29.56 | 0.39 | 44.72 | Blaine Tech |
| | 9/26/2014 | 74.36 | 29.97 | 29.55 | 0.42 | 44.73 | Blaine Tech |
| | 10/1/2014 | 74.36 | 29.90 | 29.52 | 0.38 | 44.76 | Blaine Tech |
| | 10/6/2014 | 74.36 | 29.94 | 29.56 | 0.38 | 44.72 | Blaine Tech |
| | 10/14/2014 | 74.36 | 29.94 | 29.58 | 0.36 | 44.71 | Blaine Tech |
| | 10/23/2014 | 74.36 | 30.00 | 29.62 | 0.38 | 44.66 | Blaine Tech |
| | 10/27/2014 | 74.36 | 29.95 | 29.52 | 0.43 | 44.75 | Blaine Tech |
| | 4/20/2015 | 74.36 | 28.53 | --- | --- | 45.83 | Blaine Tech |
| | 10/19/2015 | 74.36 | 30.90 | --- | --- | 43.46 | Blaine Tech |
| | 4/12/2016 | 74.36 | 31.63 | --- | --- | 42.73 | 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 |
| | 10/19/2009 | 73.32 | NM | --- | --- | NC | Blaine Tech |
| | 11/9/2009 | 73.32 | 25.60 | 25.40 | 0.20 | 47.88 | Kinder Morgan |
| | 6/22/2010 | 73.32 | 24.76 | 24.66 | 0.10 | 48.64 | Blaine Tech |
| | 10/4/2010 | 73.32 | 31.20 | 31.10 | 0.10 | 42.20 | Blaine Tech |
| | 1/10/2011 | 73.32 | 26.62 | 26.48 | 0.14 | 46.81 | Blaine Tech |
| | 4/11/2011 | 73.32 | 23.82 | --- | --- | 49.50 | Blaine Tech |
| | 7/11/2011 | 73.32 | NM | --- | --- | NC | |
| | 10/10/2011 | 73.32 | 24.05 | --- | --- | 49.27 | Blaine Tech |
| | 1/9/2012 | 73.32 | 24.68 | --- | --- | 48.64 | Blaine Tech |
| | 4/16/2012 | 73.32 | 26.18 | --- | --- | 47.14 | Blaine Tech |
| | 7/9/2012 | 73.32 | 32.92 | --- | --- | 40.40 | Blaine Tech |
| | 10/15/2012 | 73.32 | 32.97 | 32.95 | 0.02 | 40.37 | Blaine Tech |
| | 1/14/2013 | 73.32 | 32.98 | 32.93 | 0.05 | 40.38 | Blaine Tech |
| | 4/8/2013 | 73.32 | 29.63 | 26.46 | 3.17 | 46.27 | Blaine Tech |
| | 9/24/2013 | 73.32 | 31.10 | 27.20 | 3.90 | 45.40 | Blaine Tech |
| | 10/7/2013 | 73.32 | 32.09 | 27.06 | 5.03 | 45.33 | Blaine Tech |
| | 4/25/2014 | 73.32 | 28.48 | 28.40 | 0.08 | 44.91 | Blaine Tech |
| | 9/18/2014 | 73.32 | 30.71 | 27.72 | 2.99 | 45.05 | Blaine Tech |
| | 9/26/2014 | 73.32 | 30.87 | 27.75 | 3.12 | 44.99 | Blaine Tech |
| | 10/1/2014 | 73.32 | 30.52 | 27.65 | 2.87 | 45.14 | Blaine Tech |
| | 10/6/2014 | 73.32 | 30.50 | 27.66 | 2.84 | 45.13 | Blaine Tech |
| | 10/14/2014 | 73.32 | 30.63 | 27.62 | 3.01 | 45.14 | Blaine Tech |
| | 10/23/2014 | 73.32 | 30.80 | 27.70 | 3.10 | 45.05 | Blaine Tech |
| | 10/27/2014 | 73.32 | 30.70 | 27.76 | 2.94 | 45.02 | Blaine Tech |
| | 11/3/2014 | 73.32 | 30.81 | 27.62 | 3.19 | 45.11 | Blaine Tech |
| | 11/10/2014 | 73.32 | 30.94 | 27.75 | 3.19 | 44.98 | Blaine Tech |
| | 11/18/2014 | 73.32 | 30.91 | 27.65 | 3.26 | 45.07 | Blaine Tech |
| | 11/25/2014 | 73.32 | 30.95 | 27.65 | 3.30 | 45.06 | Blaine Tech |
| | 12/3/2014 | 73.32 | 32.56 | 27.83 | 4.73 | 44.61 | Blaine Tech |
| | 12/19/2014 | 73.32 | 31.72 | 27.93 | 3.79 | 44.69 | Blaine Tech |
| | 4/22/2015 | 73.32 | 32.25 | 27.98 | 4.27 | 44.55 | Blaine Tech |
| | 10/22/2015 | 73.32 | 31.36 | 29.38 | 1.98 | 43.57 | Kinder Morgan |
| | 3/16/2016 | 73.32 | 32.54 | --- | --- | 40.78 | Kinder Morgan |
| | 4/12/2016 | 73.32 | 32.48 | --- | --- | 40.84 | Kinder Morgan |
| | 6/29/2016 | 73.32 | 32.50 | --- | --- | 40.82 | Blaine Tech |
| | 8/22/2016 | 73.32 | 32.18 | --- | --- | 41.14 | Blaine Tech |
| GMW-O-21 | 12/28/2007 | 71.43 | 27.67 | --- | --- | 43.76 | Geomatrix |
| | 8/15/2008 | 73.94 | NM | --- | --- | NC | Envent |
| | 10/17/2008 | 71.43 | 26.00 | --- | --- | 45.43 | Envent |
| | 12/19/2008 | 71.43 | 24.82 | --- | --- | 46.61 | Envent |
| | 3/27/2009 | 71.43 | 26.41 | --- | --- | 45.02 | Envent |
| | 7/21/2009 | 71.43 | 24.88 | --- | --- | 46.55 | Envent |
| | 10/19/2009 | 71.43 | NM | --- | --- | NC | Blaine Tech |
| | 11/9/2009 | 71.43 | 25.02 | --- | --- | 46.41 | Kinder Morgan |
| | 10/4/2010 | 71.43 | 25.40 | --- | --- | 46.03 | Blaine Tech |
| | 4/13/2011 | 71.43 | 23.72 | --- | --- | 47.71 | Blaine Tech |

Table 8. 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 | 71.43 | 24.65 | --- | --- | 46.78 | Blaine Tech |
| | 4/16/2012 | 71.43 | NM | --- | --- | NC | Blaine Tech |
| | 7/9/2012 | 71.43 | NM | --- | --- | NC | Blaine Tech |
| | 10/15/2012 | 71.43 | 32.50 | --- | --- | 38.93 | Blaine Tech |
| | 4/8/2013 | 71.43 | NM | --- | --- | NC | Blaine Tech |
| | 9/25/2013 | 71.43 | 29.25 | --- | --- | 42.18 | Blaine Tech |
| | 10/7/2013 | 71.43 | NM | --- | --- | NC | Blaine Tech |
| | 4/14/2014 | 71.43 | 28.65 | 28.61 | 0.04 | 42.81 | Blaine Tech |
| | 9/5/2014 | 71.43 | 29.61 | 28.78 | 0.83 | 42.48 | Blaine Tech |
| | 9/26/2014 | 71.43 | 29.85 | 28.77 | 1.08 | 42.44 | Blaine Tech |
| | 10/1/2014 | 71.43 | 29.79 | 28.64 | 1.15 | 42.56 | Blaine Tech |
| | 10/6/2014 | 71.43 | 29.40 | 28.72 | 0.68 | 42.57 | Blaine Tech |
| | 10/27/2014 | 71.43 | 29.75 | 28.93 | 0.82 | 42.34 | Blaine Tech |
| | 11/10/2014 | 71.43 | 29.98 | 28.95 | 1.03 | 42.27 | Blaine Tech |
| | 11/18/2014 | 71.43 | 30.05 | 28.92 | 1.13 | 42.28 | Blaine Tech |
| | 11/25/2014 | 71.43 | 29.73 | 28.85 | 0.88 | 42.40 | Blaine Tech |
| | 12/12/2014 | 71.43 | 30.61 | 29.02 | 1.59 | 42.09 | Blaine Tech |
| | 12/19/2014 | 71.43 | 30.62 | 29.04 | 1.58 | 42.07 | Blaine Tech |
| | 4/20/2015 | 71.43 | 30.15 | 28.99 | 1.16 | 42.21 | Blaine Tech |
| | 6/10/2015 | 71.43 | 31.00 | 30.70 | 0.30 | 40.67 | Blaine Tech |
| | 7/2/2015 | 71.43 | 32.30 | 29.88 | 2.42 | 41.07 | Northstar |
| | 7/7/2015 | 71.43 | 30.65 | 30.06 | 0.59 | 41.25 | Northstar |
| | 7/17/2015 | 71.43 | 30.40 | 30.10 | 0.30 | 41.27 | Northstar |
| | 7/29/2015 | 71.43 | 30.40 | 30.10 | 0.30 | 41.27 | Northstar |
| | 8/11/2015 | 71.43 | 31.00 | 30.70 | 0.30 | 40.67 | Northstar |
| | 10/19/2015 | 71.43 | 31.43 | 31.20 | 0.23 | 40.18 | Blaine Tech |
| | 3/14/2016 | 71.43 | 33.20 | 33.17 | 0.03 | 38.25 | Blaine Tech |
| | 4/11/2016 | 71.43 | 32.17 | 31.84 | 0.33 | 39.52 | Blaine Tech |
| | 6/29/2016 | 71.43 | 33.03 | 32.83 | 0.20 | 38.56 | Blaine Tech |
| | 8/22/2016 | 71.43 | 33.72 | --- | --- | 37.71 | Blaine Tech |
| GMW-O-23 | 8/14/2007 | 73.63 | 23.33 | --- | --- | 50.30 | Geomatrix |
| | 8/21/2007 | 73.63 | 23.31 | --- | --- | 50.32 | Geomatrix |
| | 8/28/2007 | 73.63 | 23.00 | --- | --- | 50.63 | Stantec |
| | 9/11/2007 | 73.63 | 23.42 | --- | --- | 50.21 | Geomatrix |
| | 10/5/2007 | 73.63 | 27.79 | --- | --- | 45.84 | Geomatrix |
| | 11/2/2007 | 73.63 | 25.15 | --- | --- | 48.48 | Geomatrix |
| | 11/13/2007 | 73.63 | 23.90 | --- | --- | 49.73 | Stantec |
| | 12/28/2007 | 73.63 | 24.91 | --- | --- | 48.72 | Geomatrix |
| | 8/15/2008 | 73.63 | 26.28 | --- | --- | 47.35 | Envent |
| | 10/17/2008 | 73.63 | 27.16 | --- | --- | 46.47 | Envent |
| | 12/19/2008 | 73.63 | 27.60 | --- | --- | 46.03 | Envent |
| | 1/15/2009 | 73.63 | 27.54 | --- | --- | 46.09 | Envent |
| | 2/24/2009 | 73.63 | 26.19 | --- | --- | 47.44 | Envent |
| | 3/27/2009 | 73.63 | 23.74 | --- | --- | 49.89 | Envent |
| | 4/21/2009 | 73.63 | 27.30 | --- | --- | 46.33 | Envent |
| | 10/19/2009 | 73.63 | NM | --- | --- | NC | Blaine Tech |
| | 11/9/2009 | 73.63 | 27.50 | --- | --- | 46.13 | Kinder Morgan |
| | 6/22/2010 | 73.63 | 32.10 | --- | --- | 41.53 | Blaine Tech |
| | 10/4/2010 | 73.63 | 25.92 | --- | --- | 47.71 | Blaine Tech |
| | 1/10/2011 | 73.63 | 27.45 | --- | --- | 46.18 | Blaine Tech |
| | 4/11/2011 | 73.63 | 25.03 | --- | --- | 48.60 | Blaine Tech |
| | 7/11/2011 | 73.63 | NM | --- | --- | NC | |
| | 10/10/2011 | 73.63 | 25.25 | --- | --- | 48.38 | Blaine Tech |
| | 1/9/2012 | 73.63 | 25.91 | --- | --- | 47.72 | Blaine Tech |
| | 4/16/2012 | 73.63 | 27.38 | --- | --- | 46.25 | Blaine Tech |
| | 7/9/2012 | 73.63 | 27.41 | --- | --- | 46.22 | Blaine Tech |
| | 10/15/2012 | 73.63 | 26.48 | --- | --- | 47.15 | Blaine Tech |
| | 1/14/2013 | 73.63 | 29.35 | --- | --- | 44.28 | Blaine Tech |
| | 4/8/2013 | 73.63 | 29.81 | 27.74 | 2.07 | 45.48 | Blaine Tech |
| | 9/23/2013 | 73.63 | 29.90 | --- | --- | 43.73 | Blaine Tech |
| | 10/7/2013 | 73.63 | 32.86 | 28.30 | 4.56 | 44.42 | Blaine Tech |
| | 4/25/2014 | 73.63 | 29.81 | 29.66 | 0.15 | 43.94 | Blaine Tech |
| | 9/5/2014 | 73.63 | 32.57 | 28.76 | 3.81 | 44.11 | Blaine Tech |
| | 9/11/2014 | 73.63 | 32.94 | 28.63 | 4.31 | 44.14 | Blaine Tech |
| | 9/18/2014 | 73.63 | 32.80 | 28.65 | 4.15 | 44.15 | Blaine Tech |
| | 9/26/2014 | 73.63 | 32.87 | 28.70 | 4.17 | 44.10 | Blaine Tech |
| | 10/1/2014 | 73.63 | 32.56 | 28.75 | 3.81 | 44.12 | Blaine Tech |
| | 10/6/2014 | 73.63 | 32.50 | 28.73 | 3.77 | 44.15 | Blaine Tech |

Table 8. 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 | 73.63 | 32.75 | 28.20 | 4.55 | 44.52 | Blaine Tech |
| | 10/23/2014 | 73.63 | 32.80 | 28.69 | 4.11 | 44.12 | Blaine Tech |
| | 10/27/2014 | 73.63 | 32.51 | 28.80 | 3.71 | 44.09 | Blaine Tech |
| | 11/3/2014 | 73.63 | 32.82 | 29.68 | 3.14 | 43.32 | Blaine Tech |
| | 11/10/2014 | 73.63 | 32.80 | 28.78 | 4.02 | 44.05 | Blaine Tech |
| | 11/18/2014 | 73.63 | 32.78 | 29.78 | 3.00 | 43.25 | Blaine Tech |
| | 11/25/2014 | 73.63 | 32.64 | 28.78 | 3.86 | 44.08 | Blaine Tech |
| | 12/3/2014 | 73.63 | 33.25 | 28.94 | 4.31 | 43.83 | Blaine Tech |
| | 12/12/2014 | 73.63 | 32.58 | 29.33 | 3.25 | 43.65 | Blaine Tech |
| | 12/19/2014 | 73.63 | 32.71 | 29.37 | 3.34 | 43.59 | Blaine Tech |
| | 3/17/2015 | 73.63 | 30.40 | 30.00 | 0.40 | 43.55 | Kinder Morgan |
| | 4/22/2015 | 73.63 | 33.08 | 30.36 | 2.72 | 42.73 | Blaine Tech |
| | 10/22/2015 | 73.63 | 32.82 | 30.46 | 2.36 | 42.70 | Kinder Morgan |
| | 3/16/2016 | 73.63 | 34.43 | --- | --- | 39.20 | Kinder Morgan |
| | 4/12/2016 | 73.63 | 32.59 | --- | --- | 41.04 | Kinder Morgan |
| | 6/29/2016 | 73.63 | 33.90 | --- | --- | 39.73 | Blaine Tech |
| 8/22/2016 | 73.63 | 33.89 | --- | --- | 39.74 | Blaine Tech | |
| GMW-SF-9 | 4/21/2009 | 73.00 | 24.19 | --- | --- | 48.81 | Envent |
| | 5/24/2010 | 73.00 | 28.31 | --- | --- | 44.69 | Blaine Tech |
| | 5/28/2010 | 73.00 | 28.37 | --- | --- | 44.63 | Blaine Tech |
| | 10/4/2010 | 73.00 | 25.28 | --- | --- | 47.72 | Blaine Tech |
| | 4/11/2011 | 73.00 | 23.90 | --- | --- | 49.10 | Blaine Tech |
| | 10/10/2011 | 73.00 | 24.70 | --- | --- | 48.30 | Blaine Tech |
| | 4/16/2012 | 73.00 | 26.99 | --- | --- | 46.01 | Blaine Tech |
| | 7/9/2012 | 73.00 | NM | --- | --- | NC | Blaine Tech |
| | 10/15/2012 | 73.05 | 34.21 | --- | --- | 38.84 | Blaine Tech |
| | 1/14/2013 | 73.05 | 34.32 | --- | --- | 38.73 | Blaine Tech |
| | 4/10/2013 | 73.05 | 27.37 | --- | --- | 45.68 | Blaine Tech |
| | 8/14/2014 | 73.05 | 29.35 | 28.37 | 0.98 | 44.48 | Blaine Tech |
| | 8/19/2014 | 73.05 | 28.46 | 28.44 | 0.02 | 44.61 | Blaine Tech |
| | 8/29/2014 | 73.05 | 29.32 | 28.31 | 1.01 | 44.54 | Blaine Tech |
| | 9/5/2014 | 73.05 | 29.33 | 28.29 | 1.04 | 44.55 | Blaine Tech |
| | 9/11/2014 | 73.05 | 29.49 | 28.47 | 1.02 | 44.38 | Blaine Tech |
| 9/18/2014 | 73.05 | 28.95 | 28.91 | 0.04 | 44.13 | Blaine Tech | |
| 9/26/2014 | 73.05 | 28.93 | 28.59 | 0.34 | 44.39 | Blaine Tech | |
| 4/20/2015 | 73.05 | 29.01 | --- | --- | 44.04 | Blaine Tech | |
| 10/21/2015 | 73.05 | 29.69 | --- | --- | 43.36 | Blaine Tech | |
| GMW-SF-10 | 4/21/2009 | 75.77 | 27.10 | --- | --- | 48.67 | Envent |
| | 10/4/2010 | 75.77 | 28.03 | --- | --- | 47.74 | Blaine Tech |
| | 4/11/2011 | 75.77 | 26.80 | --- | --- | 48.97 | Blaine Tech |
| | 10/10/2011 | 75.77 | 27.60 | --- | --- | 48.17 | Blaine Tech |
| | 4/16/2012 | 75.77 | 28.81 | --- | --- | 46.96 | Blaine Tech |
| | 7/9/2012 | 75.77 | NM | --- | --- | NC | Blaine Tech |
| | 10/15/2012 | 75.77 | 29.88 | --- | --- | 45.89 | Blaine Tech |
| | 4/8/2013 | 75.77 | DRY | --- | --- | NC | Blaine Tech |
| GWR-3 | 4/30/2007 | 74.93 | 27.97 | --- | --- | 46.96 | Secor |
| | 11/12/2007 | 74.93 | 27.90 | --- | --- | 47.03 | Stantec |
| | 10/17/2008 | 74.93 | 29.88 | --- | --- | 45.05 | Envent |
| | 12/17/2008 | 74.93 | 19.71 | --- | --- | 55.22 | Envent |
| | 1/15/2009 | 74.93 | 29.27 | 29.26 | 0.26 | 45.88 | Envent |
| | 3/27/2009 | 74.93 | 27.18 | --- | --- | 47.75 | Envent |
| | 4/21/2009 | 74.93 | 29.97 | --- | --- | 44.96 | Envent |
| | 7/21/2009 | 74.93 | 28.77 | --- | --- | 46.16 | Envent |
| | 10/19/2009 | 74.93 | NM | --- | --- | NC | Blaine Tech |
| | 10/4/2010 | 74.93 | 30.67 | --- | --- | 44.26 | Blaine Tech |
| | 4/11/2011 | 74.93 | 29.94 | --- | --- | 44.99 | Blaine Tech |
| | 10/10/2011 | 74.93 | 29.22 | --- | --- | 45.71 | Blaine Tech |
| | 4/16/2012 | 74.93 | 29.56 | --- | --- | 45.37 | Blaine Tech |
| | 7/9/2012 | --- | NM | --- | --- | NC | Blaine Tech |
| | 10/15/2012 | 77.6 | 31.21 | --- | --- | 46.39 | Blaine Tech |
| | 4/8/2013 | 77.6 | 29.21 | 29.18 | 0.03 | 48.41 | Blaine Tech |
| | 10/7/2013 | 77.6 | 36.20 | 31.67 | 4.53 | 45.16 | Blaine Tech |
| | 4/14/2014 | 77.6 | 38.80 | 32.23 | 6.57 | 44.25 | Blaine Tech |
| | 5/5/2014 | 77.6 | 38.81 | 32.31 | 6.50 | 44.18 | Nieto & Sons |
| | 5/12/2014 | 77.6 | 36.34 | 32.77 | 3.57 | 44.22 | Nieto & Sons |
| 5/27/2014 | 77.6 | 36.11 | 33.20 | 2.91 | 43.91 | Nieto & Sons | |
| 6/4/2014 | 77.6 | 34.57 | 31.61 | 2.96 | 45.49 | Nieto & Sons | |
| 8/8/2014 | 77.6 | 37.92 | 33.38 | 4.54 | 43.45 | Blaine Tech | |

Table 8. 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 | 77.6 | 35.38 | 33.18 | 2.20 | 44.05 | Blaine Tech |
| | 8/19/2014 | 77.6 | 35.28 | 33.25 | 2.03 | 44.00 | Blaine Tech |
| | 8/29/2014 | 77.6 | 35.72 | 33.12 | 2.60 | 44.04 | Blaine Tech |
| | 9/5/2014 | 77.6 | 35.68 | 33.19 | 2.49 | 43.99 | Blaine Tech |
| | 9/11/2014 | 77.6 | 36.05 | 33.04 | 3.01 | 44.05 | Blaine Tech |
| | 9/18/2014 | 77.60 | 35.34 | 33.27 | 2.07 | 43.98 | Blaine Tech |
| | 9/26/2014 | 77.60 | 35.25 | 33.24 | 2.01 | 44.02 | Blaine Tech |
| | 10/1/2014 | 77.60 | 36.44 | 34.01 | 2.43 | 43.18 | Blaine Tech |
| | 10/6/2014 | 77.60 | 34.71 | 33.33 | 1.38 | 44.04 | Blaine Tech |
| | 10/14/2014 | 77.60 | 35.15 | 33.20 | 1.95 | 44.07 | Blaine Tech |
| | 10/23/2014 | 77.60 | 35.36 | 33.20 | 2.16 | 44.03 | Blaine Tech |
| | 10/27/2014 | 77.60 | 34.68 | 33.49 | 1.19 | 43.91 | Blaine Tech |
| | 11/3/2014 | 77.60 | 35.43 | 33.18 | 2.25 | 44.04 | Blaine Tech |
| | 11/10/2014 | 77.60 | 35.02 | 33.32 | 1.70 | 43.99 | Blaine Tech |
| | 11/18/2014 | 77.60 | 35.05 | 33.34 | 1.71 | 43.97 | Blaine Tech |
| | 11/25/2014 | 77.60 | 35.04 | 33.36 | 1.68 | 43.95 | Blaine Tech |
| | 12/3/2014 | 77.60 | 34.95 | 33.34 | 1.61 | 43.99 | Blaine Tech |
| | 12/12/2014 | 77.60 | 35.11 | 33.64 | 1.47 | 43.71 | Blaine Tech |
| | 12/19/2014 | 77.60 | 35.55 | 33.67 | 1.88 | 43.61 | Blaine Tech |
| | 4/20/2015 | 77.60 | 37.25 | 33.34 | 3.91 | 43.60 | Blaine Tech |
| | 7/24/2015 | 77.60 | 41.30 | 33.95 | 7.35 | 42.40 | Northstar |
| | 8/12/2015 | 77.60 | 37.03 | 34.42 | 2.61 | 42.74 | Northstar |
| | 10/20/2015 | 77.60 | 35.98 | 34.65 | 1.33 | 42.72 | Blaine Tech |
| | 3/16/2016 | 77.60 | 38.60 | --- | --- | 39.00 | Kinder Morgan |
| | 4/11/2016 | 77.60 | 36.90 | --- | --- | 40.70 | Blaine Tech |
| | 6/29/2016 | 77.60 | 37.77 | --- | --- | 39.83 | Blaine Tech |
| | 8/22/2016 | 77.60 | 38.24 | --- | --- | 39.36 | Blaine Tech |
| MW-18 (MID) | 4/30/2007 | 75.67 | 29.77 | --- | --- | 45.90 | Secor |
| | 11/12/2007 | 75.67 | 30.23 | --- | --- | 45.44 | Secor |
| | 4/14/2008 | 75.67 | 30.45 | --- | --- | 45.22 | Secor |
| | 10/13/2008 | 75.67 | 31.15 | --- | --- | 44.52 | Stantec |
| | 4/20/2009 | 75.67 | 31.49 | --- | --- | 44.18 | Blaine Tech |
| | 10/19/2009 | 75.67 | 32.62 | --- | --- | 43.05 | Blaine Tech |
| | 5/24/2010 | 75.67 | 32.26 | --- | --- | 43.41 | Blaine Tech |
| | 5/28/2010 | 75.67 | 32.17 | --- | --- | 43.50 | Blaine Tech |
| | 10/4/2010 | 75.67 | 32.30 | --- | --- | 43.37 | Blaine Tech |
| | 4/11/2011 | 75.67 | 31.28 | --- | --- | 44.39 | Blaine Tech |
| | 10/10/2011 | 75.67 | 31.51 | --- | --- | 44.16 | Blaine Tech |
| | 4/16/2012 | 75.67 | 31.75 | --- | --- | 43.92 | Blaine Tech |
| | 7/9/2012 | 75.67 | NM | --- | --- | NC | Blaine Tech |
| | 10/15/2012 | 75.67 | 33.41 | --- | --- | 42.26 | Blaine Tech |
| | 4/8/2013 | 75.67 | 30.68 | --- | --- | 44.99 | Blaine Tech |
| | 10/7/2013 | 75.67 | 35.33 | --- | --- | 40.34 | Blaine Tech |
| | 4/14/2014 | 75.67 | 35.40 | --- | --- | 40.27 | Blaine Tech |
| | 10/27/2014 | 75.67 | 35.81 | --- | --- | 39.86 | Blaine Tech |
| | 4/20/2015 | 75.67 | 36.29 | --- | --- | 39.38 | Blaine Tech |
| | 10/19/2015 | 75.67 | 36.99 | --- | --- | 38.68 | Blaine Tech |
| | 3/14/2016 | 75.67 | 40.70 | --- | --- | 34.97 | Blaine Tech |
| | 4/11/2016 | 75.67 | 38.89 | --- | --- | 36.78 | Blaine Tech |
| | 6/29/2016 | 75.67 | 39.94 | --- | --- | 35.73 | Blaine Tech |
| | 8/22/2016 | 75.67 | 40.14 | --- | --- | 35.53 | Blaine Tech |
| MW-O-1 | 4/30/2007 | 75.48 | 24.10 | 23.98 | 0.12 | 51.48 | Secor |
| | 8/14/2007 | 75.48 | 25.31 | 23.78 | 1.53 | 51.39 | Geomatrix |
| | 8/21/2007 | 75.48 | 23.84 | 23.58 | 0.26 | 51.85 | Geomatrix |
| | 8/28/2007 | 75.48 | 23.07 | 23.06 | 0.01 | 52.42 | Stantec |
| | 9/11/2007 | 75.48 | 23.86 | 23.48 | 0.38 | 51.92 | Geomatrix |
| | 10/5/2007 | 75.48 | 24.67 | --- | --- | 50.81 | Geomatrix |
| | 11/2/2007 | 75.48 | 24.25 | --- | --- | 51.23 | Geomatrix |
| | 11/12/2007 | 75.48 | 24.27 | 24.25 | 0.02 | 51.23 | Stantec |
| | 12/28/2007 | 75.48 | 25.54 | 25.51 | 0.03 | 49.96 | Geomatrix |
| | 8/15/2008 | 75.48 | NM | --- | --- | NC | Envent |
| | 8/19/2008 | 75.48 | 25.18 | 25.13 | 0.05 | 50.34 | Envent |
| | 10/17/2008 | 75.48 | 25.30 | --- | --- | 50.18 | Envent |
| | 12/19/2008 | 75.48 | 26.31 | --- | --- | 49.17 | Envent |
| | 1/15/2009 | 75.48 | 25.84 | --- | --- | 49.64 | Envent |
| | 4/21/2009 | 75.48 | 25.41 | --- | --- | 50.07 | Envent |
| | 10/19/2009 | 75.48 | 26.30 | --- | --- | 49.18 | Blaine Tech |
| | 10/4/2010 | 75.48 | 26.90 | --- | --- | 48.58 | Blaine Tech |

Table 8. 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 | 75.48 | 25.59 | --- | --- | 49.89 | Blaine Tech |
| | 10/10/2011 | 75.48 | 26.52 | --- | --- | 48.96 | Blaine Tech |
| | 4/16/2012 | 75.48 | 27.25 | --- | --- | 48.23 | Blaine Tech |
| | 7/9/2012 | 75.48 | NM | --- | --- | NC | Blaine Tech |
| | 10/15/2012 | 75.48 | 28.94 | --- | --- | 46.54 | Blaine Tech |
| | 4/8/2013 | 75.48 | 28.81 | --- | --- | 46.67 | Blaine Tech |
| | 10/7/2013 | 75.48 | 29.21 | --- | --- | 46.27 | Blaine Tech |
| | 4/14/2014 | 75.48 | 29.82 | --- | --- | 45.66 | Blaine Tech |
| | 10/27/2014 | 75.48 | 29.92 | --- | --- | 45.56 | Blaine Tech |
| | 4/20/2015 | 75.48 | 30.39 | --- | --- | 45.09 | Blaine Tech |
| | 10/27/2015 | 75.48 | 27.67 | --- | --- | 47.81 | Blaine Tech |
| | 3/14/2016 | 75.48 | DRY | --- | --- | NC | Blaine Tech |
| | 4/11/2016 | 75.48 | DRY | --- | --- | NC | Blaine Tech |
| | 6/29/2016 | 75.48 | DRY | --- | --- | NC | Blaine Tech |
| | 8/22/2016 | 75.48 | DRY | --- | --- | NC | Blaine Tech |
| MW-O-2 | 4/30/2007 | 74.31 | 22.53 | --- | --- | 51.78 | Secor |
| | 11/12/2007 | 71.90 | 23.10 | --- | --- | 48.80 | Stantec |
| | 8/15/2008 | 71.90 | NM | --- | --- | NC | Envent |
| | 10/17/2008 | 71.90 | 24.85 | --- | --- | 47.05 | Envent |
| | 12/19/2008 | 71.90 | 25.51 | --- | --- | 46.39 | Envent |
| | 3/27/2009 | 71.90 | 25.22 | --- | --- | 46.68 | Envent |
| | 4/21/2009 | 71.90 | NM | --- | --- | NC | Envent |
| | 7/21/2009 | 71.90 | 23.63 | --- | --- | 48.27 | Envent |
| | 10/19/2009 | 71.90 | NM | --- | --- | NC | Blaine Tech |
| | 11/9/2009 | 71.90 | 25.39 | --- | --- | 46.51 | Kinder Morgan |
| | 10/4/2010 | 71.90 | 26.05 | --- | --- | 45.85 | Blaine Tech |
| | 4/13/2011 | 71.9 | 23.31 | --- | --- | 48.59 | Blaine Tech |
| | 10/10/2011 | 71.9 | 27.53 | --- | --- | 44.37 | Blaine Tech |
| | 1/9/2012 | 71.9 | 28.13 | --- | --- | 43.77 | Blaine Tech |
| | 4/16/2012 | 71.9 | NM | --- | --- | NC | Blaine Tech |
| | 7/9/2012 | 71.9 | 26.53 | --- | --- | 45.37 | Blaine Tech |
| | 10/15/2012 | 71.9 | 26.89 | --- | --- | 45.01 | Blaine Tech |
| | 1/14/2013 | 71.9 | 26.93 | --- | --- | 44.97 | Blaine Tech |
| | 4/8/2013 | 71.9 | NM | --- | --- | NC | Blaine Tech |
| | 6/6/2013 | 71.9 | 28.99 | --- | --- | 42.91 | Blaine Tech |
| | 10/7/2013 | 71.9 | 29.06 | --- | --- | 42.84 | Blaine Tech |
| | 4/14/2014 | 71.9 | 29.36 | --- | --- | 42.54 | Blaine Tech |
| | 10/27/2014 | 71.9 | 29.81 | 29.65 | 0.16 | 42.22 | 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 |
| | 10/19/2015 | 71.9 | 32.39 | 30.53 | 1.86 | 41.00 | Blaine Tech |
| | 3/14/2016 | 71.9 | 35.49 | 34.86 | 0.63 | 36.91 | Blaine Tech |
| | 4/11/2016 | 71.9 | 33.03 | 32.54 | 0.49 | 39.26 | Blaine Tech |
| | 6/30/2016 | 71.9 | 34.20 | --- | --- | 37.70 | Kinder Morgan |
| | 8/22/2016 | 71.9 | 33.93 | --- | --- | 37.97 | Kinder Morgan |
| MW-SF-1 | 3/12/2007 | 78.93 | 28.71 | --- | --- | 50.22 | Secor |
| | 4/30/2007 | 78.93 | 28.44 | --- | --- | 50.49 | Secor |
| | 8/28/2007 | 78.93 | 27.94 | --- | --- | 50.99 | Stantec |
| | 11/12/2007 | 78.93 | 28.76 | --- | --- | 50.17 | Stantec |
| | 2/19/2008 | 78.93 | 29.50 | --- | --- | 49.43 | Stantec |
| | 4/14/2008 | 78.93 | 29.16 | --- | --- | 49.77 | Stantec |
| | 8/11/2008 | 78.93 | 29.75 | --- | --- | 49.18 | Stantec |
| | 10/13/2008 | 78.93 | 29.86 | --- | --- | 49.07 | Stantec |
| | 2/23/2009 | 78.93 | 30.00 | --- | --- | 48.93 | Blaine Tech |
| | 4/20/2009 | 78.93 | 29.97 | --- | --- | 48.96 | Blaine Tech |
| | 7/20/2009 | 78.93 | 30.98 | --- | --- | 47.95 | Blaine Tech |
| | 7/22/2009 | 78.93 | 30.98 | --- | --- | 47.95 | Blaine Tech |
| | 10/19/2009 | 78.93 | 31.11 | --- | --- | 47.82 | Blaine Tech |
| | 3/15/2010 | 78.93 | 31.74 | --- | --- | 47.19 | Blaine Tech |
| | 5/24/2010 | 78.93 | 30.79 | --- | --- | 48.14 | Blaine Tech |
| | 5/28/2010 | 78.93 | 30.57 | --- | --- | 48.36 | Blaine Tech |
| | 6/22/2010 | 78.93 | 30.84 | --- | --- | 48.09 | Blaine Tech |
| | 7/12/2010 | 78.93 | 30.51 | --- | --- | 48.42 | Blaine Tech |

Table 8. 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 | 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 |
| | 9/26/2014 | 78.93 | 34.78 | 34.45 | 0.33 | 44.41 | Blaine Tech |
| | 10/1/2014 | 78.93 | 34.77 | 34.41 | 0.36 | 44.45 | Blaine Tech |
| | 10/6/2014 | 78.93 | 34.78 | 34.42 | 0.36 | 44.44 | Blaine Tech |
| | 10/14/2014 | 78.93 | 34.65 | 34.41 | 0.24 | 44.47 | Blaine Tech |
| | 10/23/2014 | 78.93 | 34.84 | 34.45 | 0.39 | 44.40 | Blaine Tech |
| | 10/27/2014 | 78.93 | 34.80 | 34.43 | 0.37 | 44.43 | Blaine Tech |
| | 11/10/2014 | 78.93 | 34.91 | 34.51 | 0.40 | 44.34 | Blaine Tech |
| | 11/18/2014 | 78.93 | 34.80 | 34.43 | 0.37 | 44.43 | Blaine Tech |
| | 11/25/2014 | 78.93 | 34.53 | 34.51 | 0.02 | 44.42 | Blaine Tech |
| | 12/12/2014 | 78.93 | 35.18 | 34.78 | 0.40 | 44.07 | Blaine Tech |
| | 12/19/2014 | 78.93 | 35.34 | 34.88 | 0.46 | 43.96 | Blaine Tech |
| | 4/20/2015 | 78.93 | 34.89 | 34.48 | 0.41 | 44.37 | Blaine Tech |
| | 5/19/2015 | 78.93 | 38.45 | 34.55 | 3.90 | 43.60 | Northstar |
| | 5/29/2015 | 78.93 | 36.36 | 35.22 | 1.14 | 43.48 | Northstar |
| | 6/5/2015 | 78.93 | 36.50 | 35.43 | 1.07 | 43.29 | Northstar |
| | 6/12/2015 | 78.93 | 35.80 | 35.41 | 0.39 | 43.44 | Northstar |
| | 6/19/2015 | 78.93 | 36.02 | 35.42 | 0.60 | 43.39 | Northstar |
| | 6/26/2015 | 78.93 | 36.60 | 36.45 | 0.15 | 42.45 | Northstar |
| | 10/19/2015 | 78.93 | 36.35 | 35.53 | 0.82 | 43.24 | Blaine Tech |
| | 11/17/2015 | 78.93 | 35.65 | --- | --- | 43.28 | Kinder Morgan |
| | 3/14/2016 | 78.93 | 40.40 | --- | --- | 38.53 | Blaine Tech |
| | 4/11/2016 | 78.93 | 37.96 | --- | --- | 40.97 | Blaine Tech |
| | 6/29/2016 | 78.93 | 39.05 | --- | --- | 39.88 | Blaine Tech |
| | 8/22/2016 | 78.93 | 39.04 | --- | --- | 39.87 | Blaine Tech |
| MW-SF-2 | 4/30/2007 | 78.45 | 28.35 | 28.34 | 0.01 | 50.11 | Secor |
| | 11/12/2007 | 78.45 | 29.18 | 28.71 | 0.47 | 49.65 | Stantec |
| | 8/12/2008 | 78.45 | 31.11 | --- | --- | 47.34 | Envent |
| | 10/17/2008 | 78.45 | 31.55 | 31.50 | 0.05 | 46.94 | Envent |
| | 12/18/2008 | 78.53 | 32.75 | 32.55 | 0.20 | 45.94 | Envent |
| | 1/15/2009 | 78.53 | 30.84 | 30.57 | 0.27 | 47.91 | Envent |
| | 3/24/2009 | 78.53 | 28.85 | --- | --- | 49.68 | Envent |
| | 4/21/2009 | 78.53 | 29.98 | --- | --- | 48.55 | Envent |
| | 7/21/2009 | 78.53 | 29.85 | --- | --- | 48.68 | Envent |
| | 10/19/2009 | 78.53 | NM | --- | --- | NC | Blaine Tech |
| | 12/9/2009 | 78.53 | 31.45 | --- | --- | 47.08 | Kinder Morgan |
| | 10/4/2010 | 78.53 | 30.96 | 30.75 | 0.21 | 47.74 | Blaine Tech |
| | 1/10/2011 | 78.53 | 32.62 | 32.50 | 0.12 | 46.01 | Blaine Tech |
| | 4/11/2011 | 78.53 | 29.83 | --- | --- | 48.70 | Blaine Tech |
| | 7/11/2011 | 78.53 | NM | --- | --- | NC | |
| | 10/10/2011 | 78.53 | 29.82 | --- | --- | 48.71 | Blaine Tech |

Table 8. 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 | 78.53 | 30.52 | --- | --- | 48.01 | Blaine Tech |
| | 4/16/2012 | 78.53 | 31.28 | --- | --- | 47.25 | Blaine Tech |
| | 7/9/2012 | 78.53 | 33.18 | --- | --- | 45.35 | Blaine Tech |
| | 10/15/2012 | 78.53 | 32.11 | --- | --- | 46.42 | Blaine Tech |
| | 1/14/2013 | 78.53 | 33.59 | --- | --- | 44.94 | Blaine Tech |
| | 4/8/2013 | 78.53 | 33.32 | --- | --- | 45.21 | Blaine Tech |
| | 10/7/2013 | 78.53 | 34.58 | 33.08 | 1.50 | 45.15 | Blaine Tech |
| | 4/14/2014 | 78.53 | 37.50 | 33.27 | 4.23 | 44.41 | Blaine Tech |
| | 5/6/2014 | 78.53 | 37.71 | 33.24 | 4.47 | 44.40 | Nieto & Sons |
| | 5/12/2014 | 78.53 | 37.53 | 33.34 | 4.19 | 44.35 | Nieto & Sons |
| | 5/20/2014 | 78.53 | 37.62 | 33.51 | 4.11 | 44.20 | Nieto & Sons |
| | 5/27/2014 | 78.53 | 38.24 | 33.77 | 4.47 | 43.87 | Nieto & Sons |
| | 6/4/2014 | 78.53 | 34.63 | --- | --- | 43.90 | Nieto & Sons |
| | 6/10/2014 | 78.53 | 38.49 | 34.00 | 4.49 | 43.63 | Nieto & Sons |
| | 8/8/2014 | 78.53 | 36.23 | 33.82 | 2.41 | 44.23 | Blaine Tech |
| | 8/13/2014 | 78.53 | 36.75 | 33.59 | 3.16 | 44.31 | Blaine Tech |
| | 8/19/2014 | 78.53 | 36.90 | 33.60 | 3.30 | 44.27 | Blaine Tech |
| | 8/29/2014 | 78.53 | 37.11 | 33.53 | 3.58 | 44.28 | Blaine Tech |
| | 9/5/2014 | 78.53 | 37.09 | 33.51 | 3.58 | 44.30 | Blaine Tech |
| | 9/11/2014 | 78.53 | 37.12 | 33.51 | 3.61 | 44.30 | Blaine Tech |
| | 9/18/2014 | 78.53 | 36.89 | 33.60 | 3.29 | 44.27 | Blaine Tech |
| | 9/26/2014 | 78.53 | 37.28 | 33.54 | 3.74 | 44.24 | Blaine Tech |
| | 10/1/2014 | 78.53 | 37.18 | 33.56 | 3.62 | 44.25 | Blaine Tech |
| | 10/6/2014 | 78.53 | 37.16 | 33.59 | 3.57 | 44.23 | Blaine Tech |
| | 10/14/2014 | 78.53 | 37.15 | 33.64 | 3.51 | 44.19 | Blaine Tech |
| | 10/23/2014 | 78.53 | 37.24 | 33.61 | 3.63 | 44.19 | Blaine Tech |
| | 10/27/2014 | 78.53 | 37.04 | 33.54 | 3.50 | 44.29 | Blaine Tech |
| | 11/3/2014 | 78.53 | 37.14 | 33.55 | 3.59 | 44.26 | Blaine Tech |
| | 11/10/2014 | 78.53 | 37.33 | 33.56 | 3.77 | 44.22 | Blaine Tech |
| | 11/18/2014 | 78.53 | 37.21 | 33.64 | 3.57 | 44.18 | Blaine Tech |
| | 11/25/2014 | 78.53 | 37.40 | 33.69 | 3.71 | 44.10 | Blaine Tech |
| | 12/3/2014 | 78.53 | 37.16 | 33.60 | 3.56 | 44.22 | Blaine Tech |
| | 12/12/2014 | 78.53 | 38.05 | 33.91 | 4.14 | 43.79 | Blaine Tech |
| | 12/19/2014 | 78.53 | 38.40 | 33.95 | 4.45 | 43.69 | Blaine Tech |
| | 4/20/2015 | 78.53 | 36.15 | 34.73 | 1.42 | 43.52 | Blaine Tech |
| | 6/25/2015 | 78.53 | 38.95 | 35.57 | 3.38 | 42.28 | Blaine Tech |
| | 10/21/2015 | 78.53 | 36.32 | 36.13 | 0.19 | 42.36 | Kinder Morgan |
| | 3/16/2016 | 78.53 | 39.27 | --- | --- | 39.26 | Kinder Morgan |
| | 4/11/2016 | 78.53 | 37.47 | --- | --- | 41.06 | Blaine Tech |
| | 6/29/2016 | 78.53 | 38.08 | --- | --- | 40.45 | Blaine Tech |
| | 8/22/2016 | 78.53 | 38.83 | --- | --- | 39.70 | Blaine Tech |
| MW-SF-3 | 4/30/2007 | 77.62 | 27.72 | 27.45 | 0.27 | 50.12 | Secor |
| | 11/12/2007 | 77.62 | 29.34 | 28.28 | 1.06 | 49.13 | Stantec |
| | 8/12/2008 | 77.62 | 30.30 | 29.05 | 1.25 | 48.32 | Envent |
| | 10/17/2008 | 77.62 | 29.45 | --- | --- | 48.17 | Envent |
| | 12/18/2008 | 78.12 | 31.08 | 30.82 | 0.26 | 47.25 | Envent |
| | 1/15/2009 | 78.12 | 29.96 | 29.94 | 0.02 | 48.18 | Envent |
| | 3/20/2009 | 78.12 | 31.10 | --- | --- | 47.02 | Envent |
| | 3/24/2009 | 78.12 | 27.82 | --- | --- | 50.30 | Envent |
| | 4/21/2009 | 78.12 | 29.51 | 29.50 | 0.01 | 48.62 | Envent |
| | 7/21/2009 | 78.12 | 30.07 | --- | --- | 48.05 | Envent |
| | 10/19/2009 | 78.12 | NM | --- | --- | NC | Blaine Tech |
| | 11/6/2009 | 78.12 | 30.37 | 30.35 | 0.02 | 47.77 | Kinder Morgan |
| | 12/9/2009 | 78.12 | 30.53 | --- | --- | 47.59 | Kinder Morgan |
| | 9/3/2010 | 78.12 | 30.97 | 30.42 | 0.55 | 47.59 | Kinder Morgan |
| | 10/4/2010 | 78.12 | 30.88 | 30.30 | 0.58 | 47.70 | Blaine Tech |
| | 4/12/2011 | 78.12 | 29.44 | --- | --- | 48.68 | Blaine Tech |
| | 10/10/2011 | 78.12 | 30.75 | --- | --- | 47.37 | Blaine Tech |
| | 4/16/2012 | 78.12 | NM | --- | --- | NC | Blaine Tech |
| | 7/9/2012 | 78.12 | NM | --- | --- | NC | Blaine Tech |
| | 10/15/2012 | 78.12 | 32.47 | --- | --- | 45.65 | Blaine Tech |
| | 5/24/2013 | 78.12 | 33.35 | 32.51 | 0.84 | 45.44 | Blaine Tech |
| | 9/25/2013 | 78.12 | 34.40 | --- | --- | 43.72 | Blaine Tech |
| | 10/7/2013 | 78.12 | NM | --- | --- | NC | Blaine Tech |
| | 11/14/2013 | 78.12 | 33.26 | --- | --- | 44.86 | Blaine Tech |
| | 4/18/2014 | 78.12 | 33.72 | 33.62 | 0.10 | 44.48 | Blaine Tech |
| | 8/8/2014 | 78.12 | 34.07 | 33.71 | 0.36 | 44.34 | Blaine Tech |
| | 10/14/2014 | 78.12 | 34.55 | 33.92 | 0.63 | 44.07 | Blaine Tech |

Table 8. 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 |
|---------|-------------|---|---|---------------------------------------|-----------------------------------|--|---------------|
| | 10/23/2014 | 78.12 | 34.57 | 33.94 | 0.63 | 44.05 | Blaine Tech |
| | 10/27/2014 | 78.12 | 34.49 | 33.85 | 0.64 | 44.14 | Blaine Tech |
| | 11/10/2014 | 78.12 | 34.65 | 33.94 | 0.71 | 44.04 | Blaine Tech |
| | 11/18/2014 | 78.12 | 34.62 | 33.88 | 0.74 | 44.09 | Blaine Tech |
| | 11/25/2014 | 78.12 | 34.22 | 33.94 | 0.28 | 44.12 | Blaine Tech |
| | 12/12/2014 | 78.12 | 34.89 | 34.38 | 0.51 | 43.64 | Blaine Tech |
| | 12/19/2014 | 78.12 | 35.04 | 34.43 | 0.61 | 43.57 | Blaine Tech |
| | 4/20/2015 | 78.12 | 34.52 | --- | --- | 43.60 | Blaine Tech |
| | 10/21/2015 | 78.12 | 35.18 | --- | --- | 42.94 | Kinder Morgan |
| | 3/14/2016 | 78.12 | 39.43 | 39.40 | 0.03 | 38.71 | Blaine Tech |
| | 4/11/2016 | 78.12 | 37.17 | --- | --- | 40.95 | Blaine Tech |
| | 6/30/2016 | 78.12 | 38.28 | --- | --- | 39.84 | Kinder Morgan |
| | 8/22/2016 | 78.12 | 38.33 | --- | --- | 39.79 | Kinder Morgan |
| MW-SF-4 | 3/12/2007 | 79.38 | 30.01 | 29.41 | 0.60 | 49.85 | Secor |
| | 4/30/2007 | 79.38 | 29.96 | 29.11 | 0.85 | 50.10 | Secor |
| | 8/14/2007 | 79.38 | 30.34 | 28.38 | 1.96 | 50.60 | Geomatrix |
| | 8/28/2007 | 79.38 | 29.95 | 28.30 | 1.65 | 50.74 | Stantec |
| | 9/11/2007 | 79.38 | 29.98 | 28.43 | 1.55 | 50.63 | Geomatrix |
| | 10/5/2007 | 79.38 | 30.68 | 28.85 | 1.83 | 50.15 | Geomatrix |
| | 10/12/2007 | 79.38 | 30.27 | 29.96 | 0.31 | 49.36 | Geomatrix |
| | 10/19/2007 | 79.38 | 30.28 | --- | --- | 49.10 | Geomatrix |
| | 10/26/2007 | 79.38 | 30.52 | --- | --- | 48.86 | Geomatrix |
| | 11/2/2007 | 79.38 | 30.68 | --- | --- | 48.70 | Geomatrix |
| | 11/12/2007 | 79.38 | 29.70 | 29.69 | 0.01 | 49.69 | Stantec |
| | 12/21/2007 | 79.38 | 30.69 | --- | --- | 48.69 | Geomatrix |
| | 2/19/2008 | 79.38 | 30.22 | --- | --- | 49.16 | Stantec |
| | 3/21/2008 | 79.38 | 30.07 | --- | --- | 49.31 | Event |
| | 4/14/2008 | 79.38 | 29.95 | --- | --- | 49.43 | Stantec |
| | 8/8/2008 | 79.38 | 30.51 | --- | --- | 48.87 | Event |
| | 8/11/2008 | 79.38 | 30.57 | --- | --- | 48.81 | Stantec |
| | 10/16/2008 | 79.38 | 30.77 | --- | --- | 48.61 | Event |
| | 1/15/2009 | 79.38 | 31.14 | --- | --- | 48.24 | Event |
| | 2/20/2009 | 79.38 | 30.84 | --- | --- | 48.54 | Event |
| | 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 | Event |
| | 7/17/2009 | 79.38 | 31.85 | --- | --- | 47.53 | Event |
| | 7/20/2009 | 79.38 | 31.65 | 31.61 | 0.04 | 47.76 | Blaine Tech |
| | 7/22/2009 | 79.38 | 31.65 | 31.61 | 0.04 | 47.76 | Blaine Tech |
| | 10/19/2009 | 79.38 | 31.93 | 31.90 | 0.03 | 47.47 | Blaine Tech |
| | 3/15/2010 | 79.38 | 31.95 | 31.91 | 0.04 | 47.46 | Blaine Tech |
| | 5/24/2010 | 79.38 | 31.60 | --- | --- | 47.78 | Blaine Tech |
| | 5/28/2010 | 79.38 | 26.40 | --- | --- | 52.98 | Blaine Tech |
| | 6/22/2010 | 79.38 | 31.63 | --- | --- | 47.75 | Blaine Tech |
| | 7/12/2010 | 79.38 | 31.37 | --- | --- | 48.01 | Blaine Tech |
| | 10/4/2010 | 79.38 | 31.81 | --- | --- | 47.57 | Blaine Tech |
| | 1/10/2011 | 79.38 | 32.99 | --- | --- | 46.39 | Blaine Tech |
| | 4/11/2011 | 79.38 | 30.85 | --- | --- | 48.53 | Blaine Tech |
| | 7/11/2011 | 79.38 | 30.35 | --- | --- | 49.03 | Blaine Tech |
| | 10/10/2011 | 79.38 | NM | --- | --- | NC | Blaine Tech |
| | 1/9/2012 | 79.38 | 32.07 | --- | --- | 47.31 | Blaine Tech |
| | 4/16/2012 | 79.38 | 33.35 | --- | --- | 46.03 | Blaine Tech |
| | 7/9/2012 | 79.38 | 32.11 | --- | --- | 47.27 | Blaine Tech |
| | 10/15/2012 | 79.38 | 34.04 | --- | --- | 45.34 | Blaine Tech |
| | 1/14/2013 | 79.38 | 34.52 | --- | --- | 44.86 | Blaine Tech |
| | 4/8/2013 | 79.38 | DRY | --- | --- | NC | Blaine Tech |
| | 10/7/2013 | 79.38 | DRY | --- | --- | NC | Blaine Tech |
| | 4/25/2014 | 79.38 | 40.03 | 34.23 | 5.80 | 43.96 | Blaine Tech |
| | 5/6/2014 | 79.38 | 39.78 | 33.91 | 5.87 | 44.27 | Nieto & Sons |
| | 5/12/2014 | 79.38 | 37.02 | 34.64 | 2.38 | 44.25 | Nieto & Sons |
| | 5/20/2014 | 79.38 | 36.60 | 35.60 | 1.00 | 43.58 | Nieto & Sons |
| | 5/27/2014 | 79.38 | 36.12 | 35.45 | 0.67 | 43.79 | Nieto & Sons |
| | 6/4/2014 | 79.38 | 36.54 | 35.91 | 0.63 | 43.34 | Nieto & Sons |
| | 6/10/2014 | 79.38 | 37.02 | 35.38 | 1.64 | 43.66 | Nieto & Sons |
| | 7/3/2014 | 79.38 | 36.98 | 35.63 | 1.35 | 43.47 | Nieto & Sons |
| | 7/8/2014 | 79.38 | 36.78 | 35.34 | 1.44 | 43.74 | Blaine Tech |
| | 7/18/2014 | 79.38 | 35.88 | 35.55 | 0.33 | 43.76 | Blaine Tech |
| | 7/24/2014 | 79.38 | 35.98 | 35.42 | 0.56 | 43.85 | Blaine Tech |

Table 8. 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 |
|---------|-------------|---|---|---------------------------------------|-----------------------------------|--|---------------|
| | 8/1/2014 | 79.38 | 35.57 | 35.30 | 0.27 | 44.02 | Blaine Tech |
| | 8/14/2014 | 79.38 | 35.42 | 35.23 | 0.19 | 44.11 | Blaine Tech |
| | 8/19/2014 | 79.38 | 35.36 | 35.21 | 0.15 | 44.14 | Blaine Tech |
| | 8/29/2014 | 79.38 | 35.32 | 35.20 | 0.12 | 44.16 | Blaine Tech |
| | 9/18/2014 | 79.38 | 35.55 | 35.30 | 0.25 | 44.03 | Blaine Tech |
| | 9/26/2014 | 79.38 | 35.56 | 35.30 | 0.26 | 44.03 | Blaine Tech |
| | 10/1/2014 | 79.38 | 35.56 | 35.24 | 0.32 | 44.07 | Blaine Tech |
| | 10/6/2014 | 79.38 | 35.48 | 35.22 | 0.26 | 44.11 | Blaine Tech |
| | 10/14/2014 | 79.38 | 35.33 | 35.20 | 0.13 | 44.15 | Blaine Tech |
| | 10/23/2014 | 79.38 | 35.51 | 35.22 | 0.29 | 44.10 | Blaine Tech |
| | 10/27/2014 | 79.38 | 35.54 | 35.25 | 0.29 | 44.07 | Blaine Tech |
| | 11/18/2014 | 79.38 | 35.56 | 35.25 | 0.31 | 44.07 | Blaine Tech |
| | 11/25/2014 | 79.38 | 35.66 | 35.32 | 0.34 | 43.99 | Blaine Tech |
| | 12/12/2014 | 79.38 | 35.81 | 35.58 | 0.23 | 43.75 | Blaine Tech |
| | 12/19/2014 | 79.38 | 35.75 | 35.62 | 0.13 | 43.73 | Blaine Tech |
| | 4/20/2015 | 79.38 | 37.78 | 35.29 | 2.49 | 43.58 | Blaine Tech |
| | 5/19/2015 | 79.38 | 39.22 | 35.28 | 3.94 | 43.29 | Northstar |
| | 5/29/2015 | 79.38 | 37.10 | 35.80 | 1.30 | 43.31 | Northstar |
| | 6/5/2015 | 79.38 | 36.85 | 36.15 | 0.70 | 43.09 | Northstar |
| | 6/12/2015 | 79.38 | 36.55 | 36.15 | 0.40 | 43.15 | Northstar |
| | 6/19/2015 | 79.38 | 36.68 | 36.42 | 0.26 | 42.91 | Northstar |
| | 6/26/2015 | 79.38 | 37.23 | 36.96 | 0.27 | 42.36 | Northstar |
| | 10/19/2015 | 79.38 | 38.12 | 36.25 | 1.87 | 42.75 | Blaine Tech |
| | 11/17/2015 | 79.38 | 37.83 | 35.98 | 1.85 | 43.02 | Kinder Morgan |
| | 3/14/2016 | 79.38 | 40.80 | --- | --- | 38.58 | Kinder Morgan |
| | 4/11/2016 | 79.38 | 37.76 | --- | --- | 41.62 | Blaine Tech |
| | 6/29/2016 | 79.38 | 39.54 | --- | --- | 39.84 | Blaine Tech |
| | 8/22/2016 | 79.38 | 39.76 | --- | --- | 39.62 | Blaine Tech |
| MW-SF-5 | 4/30/2007 | 79.74 | 29.54 | --- | --- | 50.20 | Secor |
| | 8/21/2007 | 79.74 | 28.36 | --- | --- | 51.38 | Geomatrix |
| | 8/28/2007 | 79.74 | 28.84 | --- | --- | 50.90 | Stantec |
| | 10/5/2007 | 79.74 | 29.50 | --- | --- | 50.24 | Geomatrix |
| | 11/2/2007 | 79.74 | 31.50 | --- | --- | 48.24 | Geomatrix |
| | 11/12/2007 | 79.74 | 29.93 | --- | --- | 49.81 | Stantec |
| | 12/21/2007 | 79.74 | 31.00 | --- | --- | 48.74 | Geomatrix |
| | 4/14/2008 | 79.74 | 30.20 | --- | --- | 49.54 | Stantec |
| | 8/11/2008 | 79.74 | 30.85 | --- | --- | 48.89 | Stantec |
| | 10/13/2008 | 79.74 | 30.93 | --- | --- | 48.81 | Stantec |
| | 4/20/2009 | 79.74 | 30.99 | --- | --- | 48.75 | Blaine Tech |
| | 10/19/2009 | 79.74 | NM | --- | --- | NC | Blaine Tech |
| | 5/24/2010 | 79.74 | 31.55 | --- | --- | 48.19 | Blaine Tech |
| | 5/28/2010 | 79.74 | 31.44 | --- | --- | 48.30 | Blaine Tech |
| | 6/22/2010 | 79.74 | 31.57 | --- | --- | 48.17 | Blaine Tech |
| | 10/4/2010 | 79.74 | 31.39 | --- | --- | 48.35 | Blaine Tech |
| | 1/10/2011 | 79.74 | 33.80 | --- | --- | 45.94 | Blaine Tech |
| | 4/11/2011 | 79.74 | 31.03 | --- | --- | 48.71 | Blaine Tech |
| | 7/11/2011 | 79.74 | NM | --- | --- | NC | |
| | 10/10/2011 | 79.74 | 31.28 | --- | --- | 48.46 | Blaine Tech |
| | 1/9/2012 | 79.74 | 32.12 | --- | --- | 47.62 | Blaine Tech |
| | 4/16/2012 | 79.74 | 33.30 | --- | --- | 46.44 | Blaine Tech |
| | 7/9/2012 | 79.74 | 34.45 | --- | --- | 45.29 | Blaine Tech |
| | 10/15/2012 | 79.74 | 33.28 | --- | --- | 46.46 | Blaine Tech |
| | 1/14/2013 | 79.74 | 33.37 | --- | --- | 46.37 | Blaine Tech |
| | 4/8/2013 | 79.74 | 34.28 | --- | --- | 45.46 | Blaine Tech |
| | 10/7/2013 | 79.74 | 34.58 | --- | --- | 45.16 | Blaine Tech |
| | 4/14/2014 | 79.74 | 35.33 | --- | --- | 44.41 | Blaine Tech |
| | 10/27/2014 | 79.74 | 35.48 | --- | --- | 44.26 | Blaine Tech |
| | 4/20/2015 | 79.74 | 36.05 | --- | --- | 43.69 | Blaine Tech |
| | 10/19/2015 | 79.74 | 36.82 | --- | --- | 42.92 | Blaine Tech |
| | 3/14/2016 | 79.74 | DRY | --- | --- | NC | Blaine Tech |
| | 4/11/2016 | 79.74 | DRY | --- | --- | NC | Blaine Tech |
| | 6/29/2016 | 79.74 | DRY | --- | --- | NC | Blaine Tech |
| | 8/22/2016 | 79.74 | DRY | --- | --- | NC | Blaine Tech |
| MW-SF-6 | 4/30/2007 | 79.96 | 27.44 | 27.20 | 0.24 | 52.71 | Secor |
| | 11/12/2007 | 79.96 | 27.14 | --- | --- | 52.82 | Stantec |
| | 8/12/2008 | 79.96 | 29.82 | --- | --- | 50.14 | Envent |
| | 10/17/2008 | 79.96 | 29.75 | --- | --- | 50.21 | Envent |
| | 12/18/2008 | 76.8 | 30.73 | --- | --- | 46.07 | Envent |

Table 8. 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 | 76.8 | 31.35 | --- | --- | 45.45 | Envent |
| | 3/24/2009 | 76.80 | 30.50 | --- | --- | 46.30 | Envent |
| | 4/21/2009 | 76.80 | 28.45 | --- | --- | 48.35 | Envent |
| | 7/21/2009 | 76.80 | 27.22 | --- | --- | 49.58 | Envent |
| | 10/19/2009 | 76.80 | NM | --- | --- | NC | Blaine Tech |
| | 11/6/2009 | 76.80 | 29.10 | --- | --- | 47.70 | 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 |
| | 7/11/2011 | 76.80 | NM | --- | --- | NC | |
| | 10/10/2011 | 76.80 | 28.21 | --- | --- | 48.59 | Blaine Tech |
| | 1/9/2012 | 76.80 | 29.03 | --- | --- | 47.77 | Blaine Tech |
| | 4/16/2012 | 76.80 | 29.66 | --- | --- | 47.14 | Blaine Tech |
| | 7/9/2012 | 76.80 | 31.46 | --- | --- | 45.34 | Blaine Tech |
| | 10/15/2012 | 76.80 | 31.44 | --- | --- | 45.36 | Blaine Tech |
| | 1/14/2013 | 76.80 | 31.53 | --- | --- | 45.27 | Blaine Tech |
| | 4/8/2013 | 76.80 | 30.21 | 28.81 | 1.40 | 47.71 | Blaine Tech |
| | 10/7/2013 | 76.80 | NM | --- | --- | NC | Blaine Tech |
| | 11/14/2013 | 76.80 | 31.90 | --- | --- | 44.90 | Blaine Tech |
| | 4/18/2014 | 76.80 | 33.30 | 32.15 | 1.15 | 44.42 | Blaine Tech |
| | 8/8/2014 | 76.8 | 34.50 | 33.31 | 1.19 | 43.25 | Blaine Tech |
| | 8/13/2014 | 76.8 | 32.95 | 32.54 | 0.41 | 44.18 | Blaine Tech |
| | 8/19/2014 | 76.8 | 32.87 | 32.62 | 0.25 | 44.13 | Blaine Tech |
| | 8/29/2014 | 76.8 | 32.79 | 32.56 | 0.23 | 44.19 | Blaine Tech |
| | 9/5/2014 | 76.8 | 32.81 | 32.59 | 0.22 | 44.17 | Blaine Tech |
| | 9/18/2014 | 76.8 | 32.95 | 32.65 | 0.30 | 44.09 | Blaine Tech |
| | 9/26/2014 | 76.8 | 32.94 | 32.61 | 0.33 | 44.12 | Blaine Tech |
| | 10/1/2014 | 76.8 | 32.91 | 32.60 | 0.31 | 44.14 | Blaine Tech |
| | 10/6/2014 | 76.8 | 32.90 | 32.61 | 0.29 | 44.13 | Blaine Tech |
| | 10/14/2014 | 76.8 | 33.72 | 33.60 | 0.12 | 43.18 | Blaine Tech |
| | 10/23/2014 | 76.8 | 34.57 | 33.94 | 0.63 | 42.73 | Blaine Tech |
| | 10/27/2014 | 76.8 | 32.92 | 32.58 | 0.34 | 44.15 | Blaine Tech |
| | 11/18/2014 | 76.8 | 32.99 | 32.62 | 0.37 | 44.11 | Blaine Tech |
| | 11/25/2014 | 76.8 | 32.66 | 32.58 | 0.08 | 44.20 | Blaine Tech |
| | 12/12/2014 | 76.8 | 33.45 | 33.07 | 0.38 | 43.65 | Blaine Tech |
| | 12/19/2014 | 76.8 | 33.60 | 33.15 | 0.45 | 43.56 | Blaine Tech |
| | 4/20/2015 | 76.8 | 33.23 | 33.11 | 0.12 | 43.67 | Blaine Tech |
| | 10/21/2015 | 76.8 | 34.28 | --- | --- | 42.52 | Kinder Morgan |
| | 3/14/2016 | 76.8 | 38.10 | 38.08 | 0.02 | 38.72 | Blaine Tech |
| | 4/11/2016 | 76.8 | 35.83 | --- | --- | 40.97 | Blaine Tech |
| | 6/29/2016 | 76.8 | 36.89 | --- | --- | 39.91 | Blaine Tech |
| | 8/22/2016 | 76.8 | 37.11 | --- | --- | 39.69 | Blaine Tech |
| MW-SF-9 | 4/30/2007 | 74.1 | 22.66 | --- | --- | 51.44 | Secor |
| | 8/14/2007 | 74.1 | 28.73 | 28.61 | 0.12 | 45.47 | Geomatrix |
| | 8/21/2007 | 74.1 | 26.55 | --- | --- | 47.55 | Geomatrix |
| | 8/28/2007 | 74.1 | 20.55 | --- | --- | 53.55 | Stantec |
| | 9/11/2007 | 74.1 | 19.40 | --- | --- | 54.70 | Geomatrix |
| | 10/5/2007 | 74.1 | 26.84 | --- | --- | 47.26 | Geomatrix |
| | 11/2/2007 | 74.1 | 22.76 | --- | --- | 51.34 | Geomatrix |
| | 11/12/2007 | 74.1 | 22.96 | --- | --- | 51.14 | Stantec |
| | 12/21/2007 | 74.1 | 24.05 | --- | --- | 50.05 | Geomatrix |
| | 4/14/2008 | 74.1 | 24.23 | --- | --- | 49.87 | Stantec |
| | 10/13/2008 | 74.1 | 24.83 | --- | --- | 49.27 | Stantec |
| | 4/20/2009 | 74.10 | 25.27 | --- | --- | 48.83 | Blaine Tech |
| | 10/19/2009 | 74.10 | 26.45 | --- | --- | 47.65 | Blaine Tech |
| | 5/24/2010 | 74.10 | 25.80 | --- | --- | 48.30 | Blaine Tech |
| | 5/28/2010 | 74.10 | 25.66 | --- | --- | 48.44 | Blaine Tech |
| | 6/22/2010 | 74.10 | 25.84 | --- | --- | 48.26 | Blaine Tech |
| | 10/4/2010 | 74.10 | 26.10 | --- | --- | 48.00 | Blaine Tech |
| | 1/10/2011 | 74.10 | 27.41 | --- | --- | 46.69 | Blaine Tech |
| | 4/11/2011 | 74.10 | 24.16 | --- | --- | 49.94 | Blaine Tech |
| | 7/11/2011 | 74.10 | NM | --- | --- | NC | |
| | 10/10/2011 | 74.10 | 25.02 | --- | --- | 49.08 | Blaine Tech |
| | 1/9/2012 | 74.10 | 25.98 | --- | --- | 48.12 | Blaine Tech |
| | 4/16/2012 | 74.10 | 25.92 | --- | --- | 48.18 | Blaine Tech |
| | 7/9/2012 | 74.10 | 26.44 | --- | --- | 47.66 | Blaine Tech |
| | 10/15/2012 | 74.10 | NM | --- | --- | NC | Blaine Tech |

Table 8. 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 |
|----------|-------------|---|---|---------------------------------------|-----------------------------------|--|---------------|
| | 4/8/2013 | 74.10 | DRY | --- | --- | NC | Blaine Tech |
| | 6/6/2013 | 74.10 | 28.53 | --- | --- | 45.57 | Blaine Tech |
| | 10/7/2013 | 74.10 | 28.95 | --- | --- | 45.15 | Blaine Tech |
| | 4/25/2014 | 74.10 | 34.75 | 27.95 | 6.80 | 44.89 | Blaine Tech |
| | 5/5/2014 | 74.10 | 37.81 | 31.76 | 6.05 | 41.22 | Nieto & Sons |
| | 5/12/2014 | 74.10 | 32.32 | 29.11 | 3.21 | 44.40 | Nieto & Sons |
| | 5/20/2014 | 74.10 | 30.75 | 29.95 | 0.80 | 44.00 | Nieto & Sons |
| | 5/27/2014 | 74.1 | 38.08 | 32.32 | 5.76 | 40.71 | Nieto & Sons |
| | 6/4/2014 | 74.1 | 32.19 | 28.61 | 3.58 | 44.83 | Nieto & Sons |
| | 6/10/2014 | 74.1 | 36.27 | 28.85 | 7.42 | 43.88 | Nieto & Sons |
| | 7/3/2014 | 74.1 | 39.26 | 32.59 | 6.67 | 40.28 | Nieto & Sons |
| | 7/8/2014 | 74.1 | 36.40 | 28.60 | 7.80 | 44.06 | Blaine Tech |
| | 7/18/2014 | 74.1 | 31.04 | 29.66 | 1.38 | 44.18 | Blaine Tech |
| | 7/24/2014 | 74.1 | 31.15 | 29.85 | 1.30 | 44.01 | Blaine Tech |
| | 8/1/2014 | 74.1 | 30.25 | 29.85 | 0.40 | 44.18 | Blaine Tech |
| | 8/14/2014 | 74.1 | 30.13 | 29.82 | 0.31 | 44.22 | Blaine Tech |
| | 8/19/2014 | 74.1 | 30.08 | 29.85 | 0.23 | 44.21 | Blaine Tech |
| | 8/29/2014 | 74.1 | 30.10 | 29.81 | 0.29 | 44.24 | Blaine Tech |
| | 9/5/2014 | 74.1 | 30.13 | 29.84 | 0.29 | 44.21 | Blaine Tech |
| | 9/11/2014 | 74.1 | 29.49 | 28.47 | 1.02 | 45.44 | Blaine Tech |
| | 9/18/2014 | 74.1 | 30.29 | 29.90 | 0.39 | 44.13 | Blaine Tech |
| | 9/26/2014 | 74.1 | 30.25 | 29.84 | 0.41 | 44.18 | Blaine Tech |
| | 10/1/2014 | 74.1 | 30.24 | 29.84 | 0.40 | 44.19 | Blaine Tech |
| | 10/6/2014 | 74.1 | 30.24 | 29.83 | 0.41 | 44.19 | Blaine Tech |
| | 10/14/2014 | 74.1 | 30.12 | 29.81 | 0.31 | 44.23 | Blaine Tech |
| | 10/23/2014 | 74.1 | 30.27 | 29.85 | 0.42 | 44.17 | Blaine Tech |
| | 10/27/2014 | 74.1 | 30.29 | 29.89 | 0.40 | 44.14 | Blaine Tech |
| | 11/18/2014 | 74.1 | 30.35 | 29.86 | 0.49 | 44.15 | Blaine Tech |
| | 11/25/2014 | 74.1 | 30.42 | 29.91 | 0.51 | 44.10 | Blaine Tech |
| | 12/12/2014 | 74.1 | 30.65 | 30.10 | 0.55 | 43.90 | Blaine Tech |
| | 12/19/2014 | 74.1 | 30.80 | 30.13 | 0.67 | 43.85 | Blaine Tech |
| | 4/20/2015 | 74.1 | 36.69 | 27.67 | 9.02 | 44.76 | Blaine Tech |
| | 5/19/2015 | 74.1 | 35.68 | 26.83 | 8.85 | 45.63 | Blaine Tech |
| | 5/21/2015 | 74.1 | 32.50 | 27.31 | 5.19 | 45.83 | Northstar |
| | 5/29/2015 | 74.1 | 32.95 | 30.10 | 2.85 | 43.47 | Northstar |
| | 6/2/2015 | 74.1 | 31.67 | 30.45 | 1.22 | 43.42 | Northstar |
| | 6/5/2015 | 74.10 | 31.85 | 30.60 | 1.25 | 43.27 | Northstar |
| | 6/12/2015 | 74.10 | 31.28 | 30.75 | 0.53 | 43.25 | Northstar |
| | 6/19/2015 | 74.10 | 31.30 | 31.00 | 0.30 | 43.04 | Northstar |
| | 6/26/2015 | 74.10 | 31.20 | 29.50 | 1.70 | 44.29 | Northstar |
| | 8/11/2015 | 74.10 | 36.90 | 29.90 | 7.00 | 42.90 | Northstar |
| | 8/18/2015 | 74.10 | 35.19 | 30.25 | 4.94 | 42.94 | Northstar |
| | 8/28/2015 | 74.10 | 31.60 | 30.75 | 0.85 | 43.19 | Kinder Morgan |
| | 9/1/2015 | 74.10 | 31.78 | 30.90 | 0.88 | 43.04 | Kinder Morgan |
| | 10/16/2015 | 74.10 | 31.60 | 31.09 | 0.51 | 42.92 | Blaine Tech |
| | 10/19/2015 | 74.10 | 31.44 | 31.04 | 0.40 | 42.99 | Kinder Morgan |
| | 10/30/2015 | 74.10 | 32.60 | 32.06 | 0.54 | 41.94 | Kinder Morgan |
| | 11/17/2015 | 74.10 | 31.71 | 31.68 | 0.03 | 42.41 | Kinder Morgan |
| | 3/14/2016 | 74.10 | 34.14 | --- | --- | 39.96 | Blaine Tech |
| | 4/11/2016 | 74.10 | 32.89 | --- | --- | 41.21 | Blaine Tech |
| | 6/29/2016 | 74.10 | 34.00 | --- | --- | 40.10 | Blaine Tech |
| MW-SF-10 | 10/17/2008 | 76.53 | 27.49 | --- | --- | 49.04 | Envent |
| | 10/19/2009 | 76.53 | 28.61 | --- | --- | 47.92 | Blaine Tech |
| | 10/4/2010 | 76.53 | 28.50 | 28.36 | 0.14 | 48.14 | Blaine Tech |
| | 4/11/2011 | 76.53 | 27.41 | 27.37 | 0.04 | 49.15 | Blaine Tech |
| | 10/10/2011 | 76.53 | 27.60 | --- | --- | 48.93 | Blaine Tech |
| | 4/16/2012 | 76.53 | 28.81 | --- | --- | 47.72 | Blaine Tech |
| | 7/9/2012 | 76.53 | NM | --- | --- | NC | Blaine Tech |
| | 10/15/2012 | 76.53 | 29.27 | --- | --- | 47.26 | Blaine Tech |
| | 4/8/2013 | 76.53 | DRY | --- | --- | NC | Blaine Tech |
| | 10/7/2013 | 76.53 | DRY | --- | --- | NC | Blaine Tech |
| | 4/14/2014 | 76.53 | DRY | --- | --- | NC | Blaine Tech |
| | 10/27/2014 | 76.53 | DRY | --- | --- | NC | Blaine Tech |
| | 4/20/2015 | 76.53 | DRY | --- | --- | NC | Blaine Tech |
| | 10/19/2015 | 76.53 | DRY | --- | --- | NC | Blaine Tech |

Table 8. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

| Well ID | Date Gauged | Top of Well Casing Elevation (feet msl) | Measured Depth to Groundwater (feet btoc) | Measured Depth to Product (feet btoc) | Apparent Product Thickness (feet) | Corrected Groundwater Elevation (feet msl) | Gauged By |
|------------|-------------|---|---|---------------------------------------|-----------------------------------|--|---------------|
| | 3/14/2016 | 76.53 | DRY | --- | --- | NC | Blaine Tech |
| | 4/11/2016 | 76.53 | DRY | --- | --- | NC | Blaine Tech |
| | 6/29/2016 | 76.53 | DRY | --- | --- | NC | Blaine Tech |
| | 8/22/2016 | 76.53 | DRY | --- | --- | NC | Blaine Tech |
| MW-SF-11 | 8/14/2007 | 78.56 | 28.58 | 28.30 | 0.28 | 50.20 | Geomatrix |
| | 8/21/2007 | 78.56 | 28.76 | 28.63 | 0.13 | 49.90 | Geomatrix |
| | 8/28/2007 | 78.56 | 28.22 | --- | --- | 50.34 | Stantec |
| | 9/11/2007 | 78.56 | 26.90 | --- | --- | 51.66 | Geomatrix |
| | 10/5/2007 | 78.56 | 28.43 | --- | --- | 50.13 | Geomatrix |
| | 11/2/2007 | 78.56 | 29.48 | 29.38 | 0.10 | 49.16 | Geomatrix |
| | 11/12/2007 | 78.56 | 29.03 | --- | --- | 49.53 | Stantec |
| | 8/15/2008 | 78.56 | 30.13 | --- | --- | 48.43 | Envent |
| | 10/17/2008 | 78.56 | 30.50 | --- | --- | 48.06 | Envent |
| | 12/18/2008 | 78.56 | 29.92 | --- | --- | 48.64 | Envent |
| | 1/15/2009 | 78.56 | 30.32 | --- | --- | 48.24 | Envent |
| | 3/24/2009 | 78.56 | 31.05 | --- | --- | 47.51 | Envent |
| | 4/21/2009 | 78.56 | 30.03 | --- | --- | 48.53 | Envent |
| | 7/21/2009 | 78.56 | 30.89 | --- | --- | 47.67 | Envent |
| | 10/19/2009 | 78.56 | NM | --- | --- | NC | Blaine Tech |
| | 11/9/2009 | 78.56 | 31.00 | --- | --- | 47.56 | Kinder Morgan |
| | 9/3/2010 | 78.56 | 31.22 | --- | --- | 47.34 | Kinder Morgan |
| | 10/4/2010 | 78.56 | 30.94 | --- | --- | 47.62 | Blaine Tech |
| | 4/12/2011 | 78.56 | 30.82 | --- | --- | 47.74 | Blaine Tech |
| | 10/10/2011 | 78.56 | 30.10 | --- | --- | 48.46 | Blaine Tech |
| | 4/16/2012 | 78.56 | NM | --- | --- | NC | Blaine Tech |
| | 7/9/2012 | 78.56 | NM | --- | --- | NC | Blaine Tech |
| | 10/15/2012 | 78.56 | 33.28 | --- | --- | 45.28 | Blaine Tech |
| | 4/8/2013 | 78.56 | 33.11 | --- | --- | 45.45 | Blaine Tech |
| | 10/7/2013 | 78.56 | 33.91 | --- | --- | 44.65 | Blaine Tech |
| | 4/14/2014 | 78.56 | 35.20 | 34.95 | 0.25 | 43.56 | Blaine Tech |
| | 5/5/2014 | 78.56 | 36.52 | 33.71 | 2.81 | 44.29 | Nieto & Sons |
| | 5/12/2014 | 78.56 | 35.45 | 33.87 | 1.58 | 44.37 | Nieto & Sons |
| | 5/27/2014 | 78.56 | 35.38 | 34.65 | 0.73 | 43.76 | Nieto & Sons |
| | 6/4/2014 | 78.56 | 35.40 | 35.32 | 0.08 | 43.22 | Nieto & Sons |
| | 8/8/2014 | 78.56 | 36.22 | 33.11 | 3.11 | 44.83 | Blaine Tech |
| | 8/13/2014 | 78.56 | 36.22 | 33.47 | 2.75 | 44.54 | Blaine Tech |
| | 8/19/2014 | 78.56 | 36.46 | 33.94 | 2.52 | 44.12 | Blaine Tech |
| | 8/29/2014 | 78.56 | 36.68 | 33.83 | 2.85 | 44.16 | Blaine Tech |
| | 9/5/2014 | 78.56 | 36.62 | 33.80 | 2.82 | 44.20 | Blaine Tech |
| | 9/11/2014 | 78.56 | 37.15 | 33.78 | 3.37 | 44.11 | Blaine Tech |
| | 9/18/2014 | 78.56 | 36.79 | 33.93 | 2.86 | 44.06 | Blaine Tech |
| | 9/26/2014 | 78.56 | 36.89 | 33.88 | 3.01 | 44.08 | Blaine Tech |
| | 10/1/2014 | 78.56 | 34.95 | 33.32 | 1.63 | 44.91 | Blaine Tech |
| | 10/6/2014 | 78.56 | 36.36 | 33.95 | 2.41 | 44.13 | Blaine Tech |
| 10/14/2014 | 78.56 | 36.67 | 33.86 | 2.81 | 44.14 | Blaine Tech | |
| 10/23/2014 | 78.56 | 36.86 | 33.86 | 3.00 | 44.10 | Blaine Tech | |
| 10/27/2014 | 78.56 | 36.20 | 33.99 | 2.21 | 44.13 | Blaine Tech | |
| 11/3/2014 | 78.56 | 36.91 | 33.84 | 3.07 | 44.11 | Blaine Tech | |
| 11/18/2014 | 78.56 | 36.78 | 33.95 | 2.83 | 44.04 | Blaine Tech | |
| 11/25/2014 | 78.56 | 36.65 | 34.03 | 2.62 | 44.01 | Blaine Tech | |
| 12/3/2014 | 78.56 | 36.71 | 33.94 | 2.77 | 44.07 | Blaine Tech | |
| 12/12/2014 | 78.56 | 37.29 | 34.08 | 3.21 | 43.84 | Blaine Tech | |
| 12/19/2014 | 78.56 | 38.03 | 34.04 | 3.99 | 43.72 | Blaine Tech | |
| 3/17/2015 | 78.56 | 35.94 | 35.50 | 0.44 | 42.97 | Kinder Morgan | |
| 4/20/2015 | 78.56 | 38.89 | 34.86 | 4.03 | 42.89 | Kinder Morgan | |
| 10/20/2015 | 78.56 | 37.42 | 35.38 | 2.04 | 42.77 | Kinder Morgan | |
| 3/16/2016 | 78.56 | 39.56 | --- | --- | 39.00 | Kinder Morgan | |
| 4/11/2016 | 78.56 | 37.62 | --- | --- | 40.94 | Blaine Tech | |
| 6/29/2016 | 78.56 | 37.06 | --- | --- | 41.50 | Blaine Tech | |
| 8/22/2016 | 78.56 | 39.25 | --- | --- | 39.31 | Blaine Tech | |
| MW-SF-12 | 8/14/2007 | 78.07 | 27.76 | --- | --- | 50.31 | Geomatrix |
| | 8/21/2007 | 78.07 | 27.43 | --- | --- | 50.64 | Geomatrix |
| | 8/28/2007 | 78.07 | 27.58 | --- | --- | 50.49 | Stantec |
| | 9/11/2007 | 78.07 | 27.73 | --- | --- | 50.34 | Geomatrix |
| | 10/5/2007 | 78.07 | 28.06 | --- | --- | 50.01 | Geomatrix |
| | 11/2/2007 | 78.07 | 29.59 | --- | --- | 48.48 | Geomatrix |
| | 11/12/2007 | 78.07 | 28.33 | --- | --- | 49.74 | Stantec |
| | 8/12/2008 | 78.07 | 30.02 | --- | --- | 48.05 | Envent |

Table 8. 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 |
|----------|-------------|---|---|---------------------------------------|-----------------------------------|--|---------------|
| | 10/17/2008 | 78.07 | 30.42 | --- | --- | 47.65 | Envent |
| | 12/18/2008 | 78.07 | 31.55 | --- | --- | 46.52 | Envent |
| | 1/15/2009 | 78.07 | 30.11 | --- | --- | 47.96 | Envent |
| | 3/24/2009 | 78.07 | 29.41 | --- | --- | 48.66 | Envent |
| | 4/21/2009 | 78.07 | 29.52 | --- | --- | 48.55 | Envent |
| | 7/21/2009 | 78.07 | 28.58 | --- | --- | 49.49 | Envent |
| | 10/19/2009 | 78.07 | NM | --- | --- | NC | Blaine Tech |
| | 11/4/2009 | 78.07 | 30.36 | --- | --- | 47.71 | Kinder Morgan |
| | 2/4/2010 | 78.07 | 29.20 | --- | --- | 48.87 | Kinder Morgan |
| | 10/4/2010 | 78.07 | 30.70 | --- | --- | 47.37 | Blaine Tech |
| | 4/11/2011 | 78.07 | 29.47 | --- | --- | 48.60 | Blaine Tech |
| | 10/10/2011 | 78.07 | 26.60 | --- | --- | 51.47 | Blaine Tech |
| | 4/16/2012 | 78.07 | 31.40 | --- | --- | 46.67 | Blaine Tech |
| | 7/9/2012 | 78.07 | NM | --- | --- | NC | Blaine Tech |
| | 10/15/2012 | 78.07 | 32.12 | --- | --- | 45.95 | Blaine Tech |
| | 4/8/2013 | 78.07 | DRY | --- | --- | NC | Blaine Tech |
| | 10/7/2013 | 78.07 | NM | --- | --- | NC | Blaine Tech |
| | 4/14/2014 | 78.07 | 38.04 | 32.67 | 5.37 | 44.33 | Blaine Tech |
| | 5/20/2014 | 78.07 | 37.80 | 32.90 | 4.90 | 44.19 | Nieto & Sons |
| | 5/27/2014 | 78.07 | 33.27 | --- | --- | 44.80 | Nieto & Sons |
| | 6/4/2014 | 78.07 | 32.78 | --- | --- | 45.29 | Nieto & Sons |
| | 6/10/2014 | 78.07 | 33.76 | --- | --- | 44.31 | Nieto & Sons |
| | 7/3/2014 | 78.07 | NM | 33.58 | --- | NC | Nieto & Sons |
| | 7/24/2014 | 78.07 | NM | 33.35 | 3.97 | NC | Blaine Tech |
| | 8/1/2014 | 78.07 | 37.20 | 33.17 | 4.03 | 44.09 | Blaine Tech |
| | 9/5/2014 | 78.07 | 38.52 | 32.93 | 5.59 | 44.02 | Blaine Tech |
| | 9/11/2014 | 78.07 | 38.56 | 32.98 | 5.58 | 43.97 | Blaine Tech |
| | 9/18/2014 | 78.07 | 38.25 | 33.09 | 5.16 | 43.95 | Blaine Tech |
| | 9/26/2014 | 78.07 | 38.03 | 33.03 | 5.00 | 44.04 | Blaine Tech |
| | 10/1/2014 | 78.07 | 37.82 | 33.08 | 4.74 | 44.04 | Blaine Tech |
| | 10/6/2014 | 78.07 | 37.63 | 33.07 | 4.56 | 44.09 | Blaine Tech |
| | 10/14/2014 | 78.07 | 37.56 | 33.13 | 4.43 | 44.05 | Blaine Tech |
| | 10/23/2014 | 78.07 | 37.56 | 33.06 | 4.50 | 44.11 | Blaine Tech |
| | 10/27/2014 | 78.07 | 37.40 | 33.08 | 4.32 | 44.13 | Blaine Tech |
| | 11/3/2014 | 78.07 | 37.48 | 33.09 | 4.39 | 44.10 | Blaine Tech |
| | 11/18/2014 | 78.07 | 37.44 | 33.15 | 4.29 | 44.06 | Blaine Tech |
| | 11/25/2014 | 78.07 | 37.35 | 33.21 | 4.14 | 44.03 | Blaine Tech |
| | 12/3/2014 | 78.07 | 37.31 | 33.12 | 4.19 | 44.11 | Blaine Tech |
| | 12/12/2014 | 78.07 | 37.92 | 33.45 | 4.47 | 43.73 | Blaine Tech |
| | 12/19/2014 | 78.07 | 38.25 | 33.50 | 4.75 | 43.62 | Blaine Tech |
| | 3/17/2015 | 78.07 | 36.42 | 34.05 | 2.37 | 43.55 | Kinder Morgan |
| | 4/20/2015 | 78.07 | 36.42 | 34.05 | 2.37 | 43.55 | Blaine Tech |
| | 10/20/2015 | 78.07 | 36.78 | 34.84 | 1.94 | 42.84 | Kinder Morgan |
| | 3/16/2016 | 78.07 | 39.03 | --- | --- | 39.04 | Kinder Morgan |
| | 4/11/2016 | 78.07 | 37.13 | --- | --- | 40.94 | Blaine Tech |
| | 6/29/2016 | 78.07 | 38.34 | 38.28 | 0.06 | 39.78 | Blaine Tech |
| | 8/22/2016 | 78.07 | 38.60 | --- | --- | 39.47 | Blaine Tech |
| MW-SF-13 | 8/14/2007 | 73.40 | 22.98 | --- | --- | 50.42 | Geomatrix |
| | 8/21/2007 | 73.40 | 23.11 | --- | --- | 50.29 | Geomatrix |
| | 8/28/2007 | 73.40 | 22.85 | --- | --- | 50.55 | Stantec |
| | 9/11/2007 | 73.40 | 23.10 | --- | --- | 50.30 | Geomatrix |
| | 10/5/2007 | 73.40 | 28.11 | --- | --- | 45.29 | Geomatrix |
| | 11/2/2007 | 73.40 | 25.43 | 25.41 | 0.02 | 47.99 | Geomatrix |
| | 11/12/2007 | 73.40 | 23.70 | --- | --- | 49.70 | Stantec |
| | 12/21/2007 | 73.40 | 24.45 | 24.42 | 0.03 | 48.97 | Geomatrix |
| | 8/15/2008 | 73.40 | 27.38 | 24.11 | 3.27 | 48.47 | Envent |
| | 10/17/2008 | 73.40 | 27.28 | 24.33 | 2.95 | 48.33 | Envent |
| | 10/21/2008 | 73.40 | 27.14 | 24.26 | 2.88 | 48.42 | Envent |
| | 12/17/2008 | 73.40 | 26.21 | 24.70 | 1.51 | 48.32 | Envent |
| | 1/15/2009 | 73.40 | 26.90 | 24.80 | 2.10 | 48.08 | Envent |
| | 3/27/2009 | 73.40 | 26.46 | 25.49 | 0.97 | 47.67 | Envent |
| | 4/21/2009 | 73.40 | 24.86 | 24.78 | 0.08 | 48.60 | Envent |
| | 7/21/2009 | 73.40 | 25.72 | 25.48 | 0.24 | 47.86 | Envent |
| | 10/19/2009 | 73.40 | NM | --- | --- | NC | Blaine Tech |
| | 11/6/2009 | 73.40 | 25.72 | --- | --- | 47.68 | Kinder Morgan |
| | 2/4/2010 | 73.40 | 25.43 | 25.30 | 0.13 | 48.07 | Kinder Morgan |
| | 9/3/2010 | 73.40 | 27.40 | 25.71 | 1.69 | 47.27 | Kinder Morgan |
| | 10/4/2010 | 73.40 | 26.95 | 25.92 | 1.03 | 47.22 | Blaine Tech |

Table 8. 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 |
| | 7/9/2012 | 73.40 | NM | --- | --- | NC | Blaine Tech |
| | 10/15/2012 | 73.40 | 27.01 | --- | --- | 46.39 | Blaine Tech |
| | 4/8/2013 | 73.40 | 27.90 | --- | --- | 45.50 | Blaine Tech |
| | 10/7/2013 | 73.40 | NM | --- | --- | NC | Blaine Tech |
| | 11/14/2013 | 73.40 | 29.95 | 28.25 | 1.70 | 44.73 | Blaine Tech |
| | 4/14/2014 | 73.40 | 31.36 | 28.47 | 2.89 | 44.21 | Blaine Tech |
| | 5/5/2014 | 73.40 | 31.62 | 28.49 | 3.13 | 44.13 | Nieto & Sons |
| | 5/12/2014 | 73.40 | 30.02 | 28.88 | 1.14 | 44.24 | Nieto & Sons |
| | 5/20/2014 | 73.40 | 31.10 | 29.77 | 1.33 | 43.30 | Nieto & Sons |
| | 5/27/2014 | 73.40 | 30.17 | 29.48 | 0.69 | 43.75 | Nieto & Sons |
| | 6/4/2014 | 73.40 | 30.22 | --- | --- | 43.18 | Nieto & Sons |
| | 6/10/2014 | 73.40 | 30.20 | 29.76 | 0.44 | 43.53 | Nieto & Sons |
| | 7/3/2014 | 73.40 | 30.49 | 29.88 | 0.61 | 43.37 | Nieto & Sons |
| | 7/24/2014 | 73.40 | 30.50 | 29.54 | 0.96 | 43.62 | Blaine Tech |
| | 8/1/2014 | 73.40 | 29.82 | 29.25 | 0.57 | 44.01 | Blaine Tech |
| | 8/8/2014 | 73.40 | 34.07 | 33.71 | 0.36 | 39.60 | Blaine Tech |
| | 8/14/2014 | 73.40 | 29.96 | 29.13 | 0.83 | 44.06 | Blaine Tech |
| | 8/19/2014 | 73.40 | 29.91 | 29.15 | 0.76 | 44.06 | Blaine Tech |
| | 8/29/2014 | 73.40 | 30.15 | 29.02 | 1.13 | 44.10 | Blaine Tech |
| | 9/5/2014 | 73.40 | 30.19 | 29.08 | 1.11 | 44.04 | Blaine Tech |
| | 9/11/2014 | 73.40 | 30.66 | 28.91 | 1.75 | 44.05 | Blaine Tech |
| | 9/18/2014 | 73.40 | 30.41 | 29.15 | 1.26 | 43.94 | Blaine Tech |
| | 9/26/2014 | 73.40 | 30.18 | 29.14 | 1.04 | 44.00 | Blaine Tech |
| | 10/1/2014 | 73.40 | 30.38 | 29.05 | 1.33 | 44.02 | Blaine Tech |
| | 10/6/2014 | 73.40 | 30.10 | 29.12 | 0.98 | 44.04 | Blaine Tech |
| | 10/13/2014 | 73.40 | 30.28 | 29.07 | 1.21 | 44.03 | Blaine Tech |
| | 10/23/2014 | 73.40 | 30.72 | 28.95 | 1.77 | 44.01 | Blaine Tech |
| | 10/27/2014 | 73.40 | 30.21 | 29.06 | 1.15 | 44.05 | Blaine Tech |
| | 11/3/2014 | 73.40 | 30.62 | 28.93 | 1.69 | 44.05 | Blaine Tech |
| | 11/18/2014 | 73.40 | 30.54 | 29.11 | 1.43 | 43.93 | Blaine Tech |
| | 11/25/2014 | 73.40 | 29.48 | 29.14 | 0.34 | 44.18 | Blaine Tech |
| | 12/3/2014 | 73.40 | 31.02 | 28.93 | 2.09 | 43.95 | Blaine Tech |
| | 12/12/2014 | 73.40 | 31.05 | 29.40 | 1.65 | 43.59 | Blaine Tech |
| | 12/19/2014 | 73.40 | 31.11 | 29.40 | 1.71 | 43.57 | Blaine Tech |
| | 4/20/2015 | 73.40 | 32.44 | 29.04 | 3.40 | 43.51 | Blaine Tech |
| | 10/19/2015 | 73.40 | 35.16 | 29.31 | 5.85 | 42.63 | Blaine Tech |
| | 3/14/2016 | 73.40 | 34.72 | --- | --- | 38.68 | Blaine Tech |
| | 4/11/2016 | 73.40 | 32.28 | --- | --- | 41.12 | Blaine Tech |
| | 6/29/2016 | 73.40 | 33.62 | --- | --- | 39.78 | Blaine Tech |
| | 8/22/2016 | 73.40 | 33.66 | --- | --- | 39.74 | Blaine Tech |
| MW-SF-14 | 8/14/2007 | 78.16 | 27.68 | --- | --- | 50.48 | Geomatrix |
| | 8/21/2007 | 78.16 | 27.60 | --- | --- | 50.56 | Geomatrix |
| | 8/28/2007 | 78.16 | 27.53 | --- | --- | 50.63 | Stantec |
| | 9/11/2007 | 78.16 | 27.66 | --- | --- | 50.50 | Geomatrix |
| | 10/5/2007 | 78.16 | 27.75 | --- | --- | 50.41 | Geomatrix |
| | 11/2/2007 | 78.16 | 29.83 | --- | --- | 48.33 | Geomatrix |
| | 11/12/2007 | 78.16 | NM | --- | --- | NC | Secor |
| | 8/15/2008 | 78.16 | 29.77 | 29.24 | 0.53 | 48.81 | Envent |
| | 10/17/2008 | 78.16 | 29.52 | 29.50 | 0.02 | 48.66 | Envent |
| | 12/18/2008 | 78.16 | 30.62 | --- | --- | 47.54 | Envent |
| | 1/15/2009 | 78.16 | 30.08 | --- | --- | 48.08 | Envent |
| | 3/24/2009 | 78.16 | 29.73 | --- | --- | 48.43 | Envent |
| | 4/21/2009 | 78.16 | 29.61 | --- | --- | 48.55 | Envent |
| | 7/21/2009 | 78.16 | 29.20 | --- | --- | 48.96 | Envent |
| | 10/19/2009 | 78.16 | NM | --- | --- | NC | Blaine Tech |
| | 11/6/2009 | 78.16 | 30.48 | --- | --- | 47.68 | Kinder Morgan |
| | 12/9/2009 | 78.16 | 30.68 | --- | --- | 47.48 | Kinder Morgan |
| | 6/22/2010 | 78.16 | 26.17 | --- | --- | 51.99 | Blaine Tech |
| | 10/4/2010 | 78.16 | 30.54 | --- | --- | 47.62 | Blaine Tech |
| | 4/12/2011 | 78.16 | 29.55 | --- | --- | 48.61 | Blaine Tech |
| | 10/10/2011 | 78.16 | 29.84 | --- | --- | 48.32 | Blaine Tech |
| | 4/16/2012 | 78.16 | NM | --- | --- | NC | Blaine Tech |
| | 7/9/2012 | 78.16 | NM | --- | --- | NC | Blaine Tech |
| | 10/15/2012 | 78.16 | 30.02 | --- | --- | 48.14 | Blaine Tech |
| | 4/8/2013 | 78.16 | 32.75 | --- | --- | 45.41 | Blaine Tech |

Table 8. Groundwater and Product Measurements and Elevations for Total Fluids, Groundwater, and Soil Vapor Extraction Wells

SFPP Norwalk Pump Station, Norwalk, California

| Well ID | Date Gauged | Top of Well Casing Elevation (feet msl) | Measured Depth to Groundwater (feet btoc) | Measured Depth to Product (feet btoc) | Apparent Product Thickness (feet) | Corrected Groundwater Elevation (feet msl) | Gauged By |
|----------|-------------|---|---|---------------------------------------|-----------------------------------|--|---------------|
| | 5/24/2013 | 78.16 | 32.75 | --- | --- | 45.41 | Blaine Tech |
| | 9/26/2013 | 78.16 | 34.50 | 34.25 | 0.25 | 43.86 | Blaine Tech |
| | 10/7/2013 | 78.16 | NM | --- | --- | NC | Blaine Tech |
| | 11/14/2013 | 78.16 | 33.57 | 33.19 | 0.38 | 44.89 | Blaine Tech |
| | 4/14/2014 | 78.16 | 34.81 | 33.56 | 1.25 | 44.35 | Blaine Tech |
| | 8/8/2014 | 78.16 | 34.24 | 33.98 | 0.26 | 44.13 | Blaine Tech |
| | 10/14/2014 | 78.16 | 34.36 | 33.80 | 0.56 | 44.25 | Blaine Tech |
| | 10/23/2014 | 78.16 | 34.49 | 34.43 | 0.06 | 43.72 | Blaine Tech |
| | 10/27/2014 | 78.16 | 34.40 | 33.97 | 0.43 | 44.10 | Blaine Tech |
| | 11/18/2014 | 78.16 | 34.27 | 34.07 | 0.20 | 44.05 | Blaine Tech |
| | 4/20/2015 | 78.16 | 34.48 | --- | --- | 43.68 | Blaine Tech |
| | 10/21/2015 | 78.16 | 35.25 | --- | --- | 42.91 | Blaine Tech |
| | 3/14/2016 | 78.16 | 36.21 | --- | --- | 41.95 | Blaine Tech |
| | 4/11/2016 | 78.16 | 37.14 | --- | --- | 41.02 | Blaine Tech |
| | 6/29/2016 | 78.16 | 37.36 | --- | --- | 40.80 | Blaine Tech |
| | 8/22/2016 | 78.16 | DRY | --- | --- | NC | Blaine Tech |
| MW-SF-15 | 8/14/2007 | 78.27 | 27.78 | 27.75 | 0.03 | 50.51 | Geomatrix |
| | 8/21/2007 | 78.27 | 27.69 | 27.65 | 0.04 | 50.61 | Geomatrix |
| | 8/28/2007 | 78.27 | 27.65 | 27.61 | 0.04 | 50.65 | Stantec |
| | 9/11/2007 | 78.27 | 27.62 | --- | --- | 50.65 | Geomatrix |
| | 10/5/2007 | 78.27 | 28.15 | --- | --- | 50.12 | Geomatrix |
| | 11/2/2007 | 78.27 | 30.45 | 30.20 | 0.25 | 48.02 | Geomatrix |
| | 11/12/2007 | 78.27 | 28.75 | --- | --- | 49.52 | Stantec |
| | 8/15/2008 | 78.27 | 30.12 | 29.35 | 0.77 | 48.77 | Envent |
| | 10/17/2008 | 78.27 | 30.80 | 29.44 | 1.36 | 48.56 | Envent |
| | 10/21/2008 | 78.27 | 30.80 | 29.31 | 1.49 | 48.66 | Envent |
| | 12/18/2008 | 78.27 | 32.11 | 30.56 | 1.55 | 47.40 | Envent |
| | 1/15/2009 | 78.27 | 31.75 | 29.70 | 2.05 | 48.16 | Envent |
| | 3/24/2009 | 78.27 | 30.32 | 29.93 | 0.39 | 48.26 | Envent |
| | 4/21/2009 | 78.27 | 29.96 | 29.60 | 0.36 | 48.60 | Envent |
| | 7/21/2009 | 78.27 | 30.45 | --- | --- | 47.82 | Envent |
| | 10/19/2009 | 78.27 | NM | --- | --- | NC | Blaine Tech |
| | 11/4/2009 | 78.27 | 31.10 | 30.45 | 0.36 | 47.46 | Kinder Morgan |
| | 12/9/2009 | 78.27 | 30.87 | --- | --- | 47.40 | Kinder Morgan |
| | 10/4/2010 | 78.27 | 30.66 | 30.65 | 0.01 | 47.62 | Blaine Tech |
| | 4/12/2011 | 78.27 | 30.50 | 29.40 | 1.10 | 48.65 | Blaine Tech |
| | 10/10/2011 | 78.27 | 29.60 | --- | --- | 48.67 | Blaine Tech |
| | 12/2/2011 | 78.27 | 31.40 | 30.05 | 1.35 | 47.95 | Blaine Tech |
| | 4/16/2012 | 78.27 | 32.48 | 32.39 | 0.09 | 45.86 | Blaine Tech |
| | 7/9/2012 | 78.27 | NM | --- | --- | NC | Blaine Tech |
| | 10/15/2012 | 78.16 | 33.04 | --- | --- | 45.12 | Blaine Tech |
| | 4/8/2013 | 78.27 | 33.90 | --- | --- | 44.37 | Blaine Tech |
| | 5/24/2013 | 78.27 | 33.90 | --- | --- | 44.37 | Blaine Tech |
| | 10/7/2013 | 78.27 | NM | --- | --- | NC | Blaine Tech |
| | 11/14/2013 | 78.27 | 33.41 | 33.38 | 0.03 | 44.88 | Blaine Tech |
| | 4/18/2014 | 78.27 | 33.85 | --- | --- | 44.42 | Blaine Tech |
| | 8/8/2014 | 78.27 | 34.87 | 33.96 | 0.91 | 44.13 | Blaine Tech |
| | 8/13/2014 | 78.27 | 34.89 | 33.95 | 0.94 | 44.13 | Blaine Tech |
| | 8/19/2014 | 78.27 | 34.90 | 33.94 | 0.96 | 44.14 | Blaine Tech |
| | 8/29/2014 | 78.27 | 35.65 | 35.38 | 0.27 | 42.84 | Blaine Tech |
| | 10/27/2014 | 78.27 | 35.82 | --- | --- | 42.45 | Blaine Tech |
| | 4/20/2015 | 78.27 | 36.63 | 34.12 | 2.51 | 43.65 | Blaine Tech |
| | 10/19/2015 | 78.27 | 37.90 | 34.87 | 3.03 | 42.79 | Blaine Tech |
| | 11/17/2015 | 78.27 | 37.71 | 35.36 | 2.35 | 42.44 | Kinder Morgan |
| | 3/14/2016 | 78.27 | 39.70 | --- | --- | 38.57 | Blaine Tech |
| | 4/11/2016 | 78.27 | 37.24 | --- | --- | 41.03 | Blaine Tech |
| | 6/29/2016 | 78.27 | 38.70 | --- | --- | 39.57 | Blaine Tech |
| | 8/22/2016 | 78.27 | 38.78 | --- | --- | 39.49 | Blaine Tech |
| 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 |

Table 8. 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 | 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 |
| | 10/19/2009 | 78.21 | NM | --- | --- | NC | Blaine Tech |
| | 11/4/2009 | 78.21 | 30.58 | --- | --- | 47.63 | Kinder Morgan |
| | 2/4/2010 | 78.21 | 30.36 | --- | --- | 47.85 | Kinder Morgan |
| | 9/3/2010 | 78.21 | 30.25 | --- | --- | 47.96 | Kinder Morgan |
| | 10/4/2010 | 78.21 | 30.49 | --- | --- | 47.72 | Blaine Tech |
| | 4/12/2011 | 78.21 | 29.52 | --- | --- | 48.69 | Blaine Tech |
| | 10/10/2011 | 78.21 | 29.85 | --- | --- | 48.36 | Blaine Tech |
| | 4/16/2012 | 78.21 | NM | --- | --- | NC | Blaine Tech |
| | 7/9/2012 | 78.21 | NM | --- | --- | NC | Blaine Tech |
| | 10/15/2012 | 78.21 | 32.47 | --- | --- | 45.74 | Blaine Tech |
| | 4/8/2013 | 78.21 | 32.97 | 32.73 | 0.24 | 45.43 | Blaine Tech |
| | 5/24/2013 | 78.21 | 32.97 | 32.73 | 0.24 | 45.43 | Blaine Tech |
| | 10/7/2013 | 78.21 | NM | --- | --- | NC | Blaine Tech |
| | 11/14/2013 | 78.21 | 33.80 | 33.21 | 0.59 | 44.88 | Blaine Tech |
| | 4/18/2014 | 78.21 | 34.20 | 33.65 | 0.55 | 44.45 | Blaine Tech |
| | 8/8/2014 | 78.21 | 34.06 | 34.05 | 0.01 | 44.16 | Blaine Tech |
| | 10/27/2014 | 78.21 | 34.25 | --- | --- | 43.96 | Blaine Tech |
| | 4/20/2015 | 78.21 | 34.52 | --- | --- | 43.69 | Blaine Tech |
| | 6/8/2015 | 78.21 | 35.17 | 35.00 | 0.17 | 43.18 | Blaine Tech |
| | 10/21/2015 | 78.21 | 34.56 | --- | --- | 43.65 | Kinder Morgan |
| | 3/14/2016 | 78.21 | 39.60 | --- | --- | 38.61 | Blaine Tech |
| | 4/11/2016 | 78.21 | 37.15 | --- | --- | 41.06 | Blaine Tech |
| | 6/29/2016 | 78.21 | 38.35 | --- | --- | 39.86 | Blaine Tech |
| | 8/22/2016 | 78.21 | 38.51 | --- | --- | 39.70 | Blaine Tech |

Notes:

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

--- = not detected or not applicable

DRY = No measurable water observed in the well.

feet btoc = feet below top of casing

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

NC = not calculated

NM = not measured

Figures

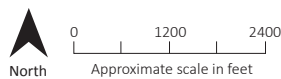
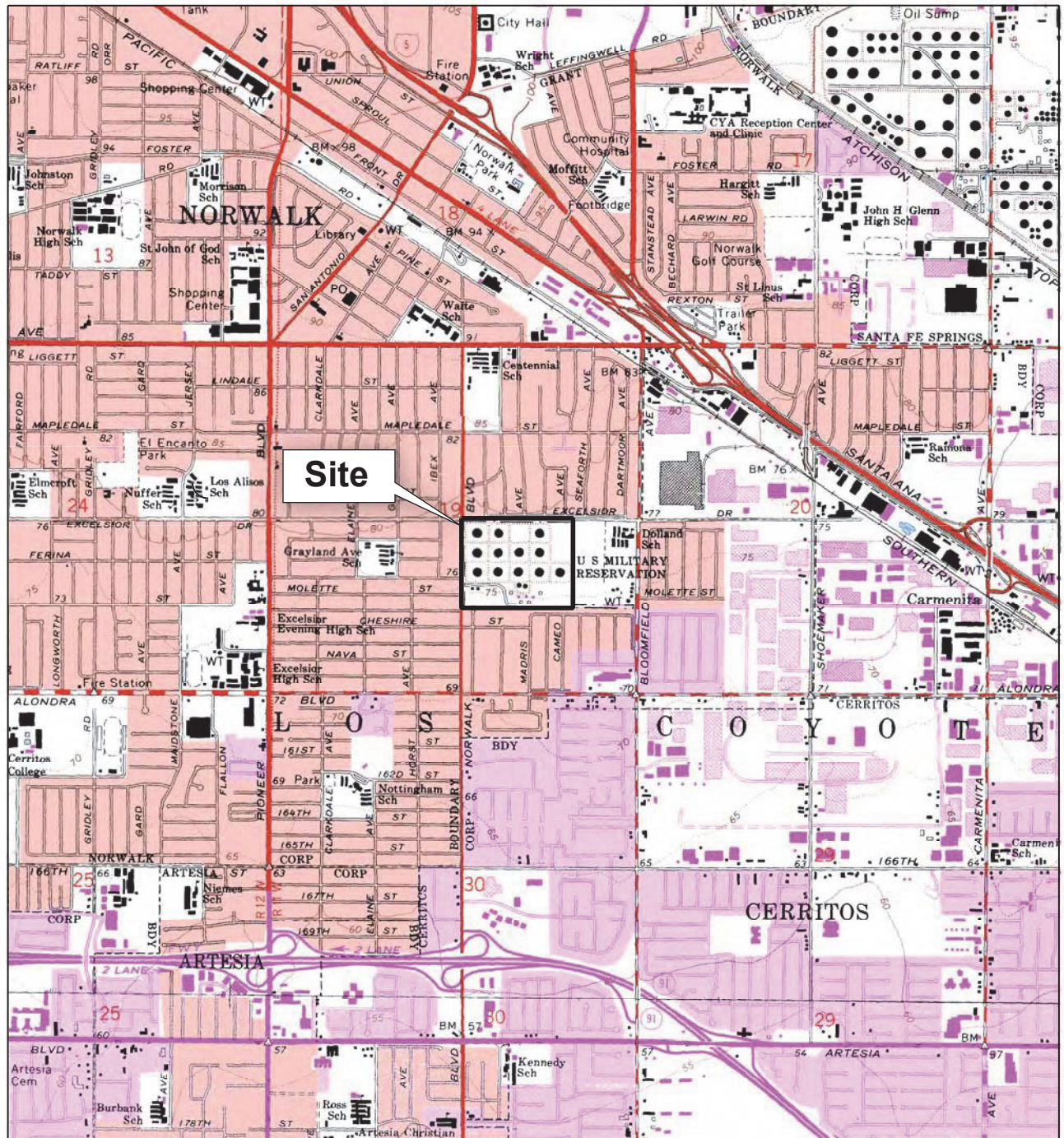
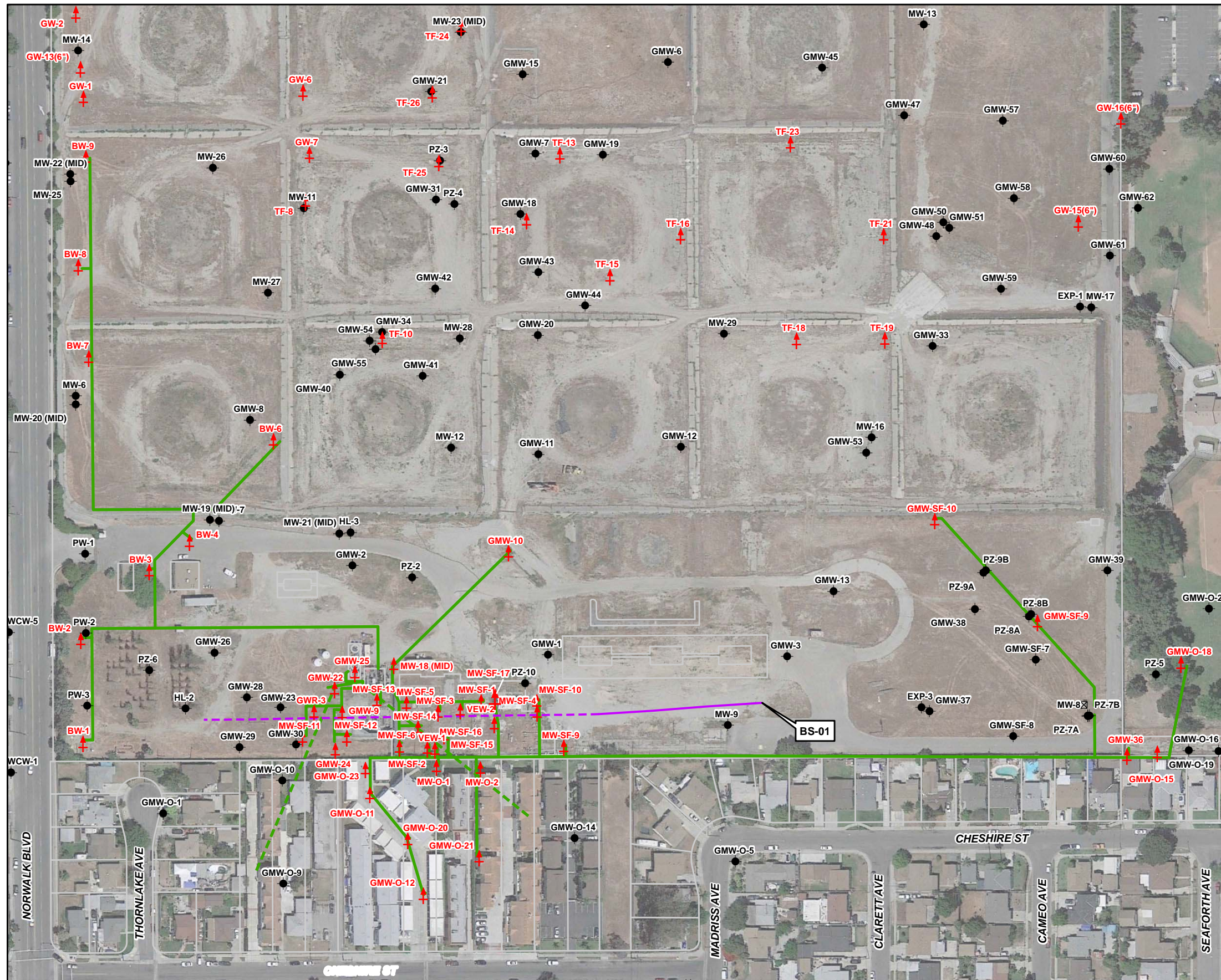


Figure 1
Site Location Map
SFPP Norwalk Pump Station
Norwalk, California

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



Legend

- 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.

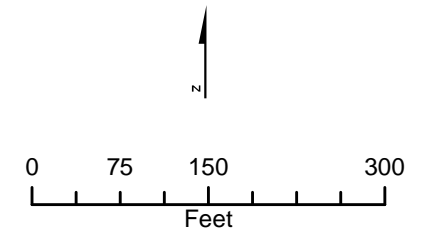


Figure 2
Remediation System Layout
SFPP Norwalk Pump Station
Norwalk, California



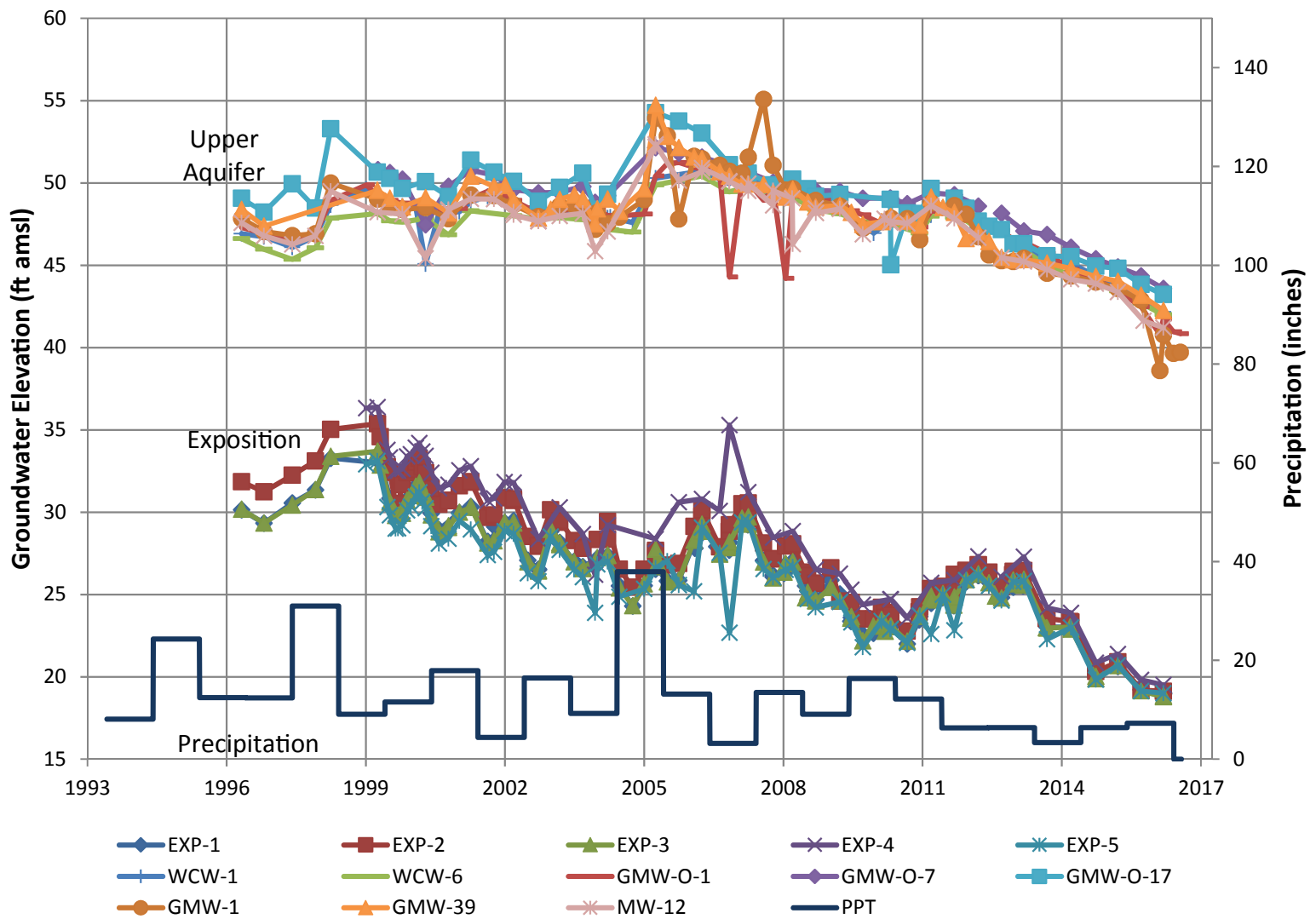


Figure 3
Hydrographs for Select Groundwater Monitoring Wells
SFPP Norwalk Pump Station
Norwalk, California

Appendix A
Laboratory Analytical Reports

July 18, 2016

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



ADE-1461
EPA Methods TO3,
TO14A, TO15 SIM & SCAN
ASTM D1946



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

TX Cert T104704450-14-6
EPA Methods TO14A, TO15

UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: SFPP - Norwalk Site
Lab Number: H070805-01/04

Enclosed are results for sample(s) received 7/08/16 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 7/15/16.

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.

Client: CH2M Hill
 Attn: Dan Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 07/08/16
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

| Lab No.: | H070805-01 | | | H070805-02 | | | H070805-03 | | | H070805-04 | | |
|-------------------------------|---------------|---------|----------|---------------|---------|----------|--------------|---------|----------|---------------|---------|----------|
| Client Sample I.D.: | VEFF-07-07 | | | VEFF-07-07-D | | | VPOST-07-07 | | | VINP-07-07 | | |
| Date/Time Sampled: | 7/7/16 9:44 | | | 7/7/16 9:44 | | | 7/7/16 11:01 | | | 7/7/16 11:06 | | |
| Date/Time Analyzed: | 7/11/16 22:26 | | | 7/11/16 23:26 | | | 7/12/16 4:04 | | | 7/12/16 13:25 | | |
| QC Batch No.: | 160711MS2A1 | | | 160711MS2A1 | | | 160712MS2A1 | | | 160712MS2A1 | | |
| Analyst Initials: | DT | | | DT | | | DT | | | DT | | |
| Dilution Factor: | 2.7 | | | 2.7 | | | 40 | | | 51 | | |
| 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 | 0.0027 | 0.00041 | ND | 0.0027 | 0.00041 | ND | 0.040 | 0.0062 | ND | 0.051 | 0.0078 |
| Chloromethane | ND | 0.0053 | 0.00058 | ND | 0.0053 | 0.00058 | ND | 0.081 | 0.0089 | ND | 0.10 | 0.011 |
| 1,2-CI-1,1,2,2-F ethane (114) | ND | 0.0027 | 0.00053 | ND | 0.0027 | 0.00053 | ND | 0.040 | 0.0081 | ND | 0.051 | 0.010 |
| Vinyl Chloride | ND | 0.0027 | 0.00043 | ND | 0.0027 | 0.00043 | ND | 0.040 | 0.0066 | ND | 0.051 | 0.0082 |
| Bromomethane | ND | 0.0027 | 0.00078 | ND | 0.0027 | 0.00078 | ND | 0.040 | 0.012 | ND | 0.051 | 0.015 |
| Chloroethane | ND | 0.0027 | 0.0022 | ND | 0.0027 | 0.0022 | ND | 0.040 | 0.034 | ND | 0.051 | 0.042 |
| Trichlorofluoromethane (11) | ND | 0.0027 | 0.00057 | ND | 0.0027 | 0.00057 | ND | 0.040 | 0.0087 | ND | 0.051 | 0.011 |
| 1,1-Dichloroethene | ND | 0.0027 | 0.00060 | ND | 0.0027 | 0.00060 | ND | 0.040 | 0.0092 | ND | 0.051 | 0.011 |
| Carbon Disulfide | 0.017 | 0.013 | 0.00064 | 0.023 | 0.013 | 0.00064 | 0.047 J | 0.20 | 0.0097 | 0.086 J | 0.25 | 0.012 |
| 1,1,2-CI 1,2,2-F ethane (113) | ND | 0.0027 | 0.00071 | ND | 0.0027 | 0.00071 | ND | 0.040 | 0.011 | ND | 0.051 | 0.014 |
| Acetone | 0.0013 J | 0.013 | 0.00077 | 0.064 | 0.013 | 0.00077 | 0.12 J | 0.20 | 0.012 | 0.11 J | 0.25 | 0.015 |
| Methylene Chloride | ND | 0.0027 | 0.00076 | ND | 0.0027 | 0.00076 | ND | 0.040 | 0.012 | ND | 0.051 | 0.014 |
| t-1,2-Dichloroethene | ND | 0.0027 | 0.00080 | ND | 0.0027 | 0.00080 | ND | 0.040 | 0.012 | ND | 0.051 | 0.015 |
| 1,1-Dichloroethane | ND | 0.0027 | 0.00036 | ND | 0.0027 | 0.00036 | ND | 0.040 | 0.0055 | ND | 0.051 | 0.0069 |
| c-1,2-Dichloroethene | ND | 0.0027 | 0.00051 | ND | 0.0027 | 0.00051 | ND | 0.040 | 0.0078 | ND | 0.051 | 0.0098 |
| 2-Butanone | 0.13 | 0.0027 | 0.0016 | 0.13 | 0.0027 | 0.0016 | 0.049 | 0.040 | 0.025 | ND | 0.051 | 0.031 |
| t-Butyl Methyl Ether (MTBE) | ND | 0.0027 | 0.00059 | ND | 0.0027 | 0.00059 | ND | 0.040 | 0.0090 | ND | 0.051 | 0.011 |
| Chloroform | ND | 0.0027 | 0.00037 | ND | 0.0027 | 0.00037 | ND | 0.040 | 0.0057 | ND | 0.051 | 0.0071 |
| 1,1,1-Trichloroethane | ND | 0.0027 | 0.00027 | ND | 0.0027 | 0.00027 | ND | 0.040 | 0.0041 | ND | 0.051 | 0.0051 |
| Carbon Tetrachloride | ND | 0.0027 | 0.00046 | ND | 0.0027 | 0.00046 | ND | 0.040 | 0.0070 | ND | 0.051 | 0.0088 |
| Benzene | 0.0016 J | 0.0027 | 0.00026 | 0.0017 J | 0.0027 | 0.00026 | 1.1 | 0.040 | 0.0039 | 1.0 | 0.051 | 0.0049 |
| 1,2-Dichloroethane | ND | 0.0027 | 0.00020 | ND | 0.0027 | 0.00020 | ND | 0.040 | 0.0030 | ND | 0.051 | 0.0038 |
| Trichloroethene | ND | 0.0027 | 0.00038 | ND | 0.0027 | 0.00038 | ND | 0.040 | 0.0057 | ND | 0.051 | 0.0071 |
| 1,2-Dichloropropane | ND | 0.0027 | 0.00048 | ND | 0.0027 | 0.00048 | ND | 0.040 | 0.0073 | ND | 0.051 | 0.0091 |
| Bromodichloromethane | ND | 0.0027 | 0.00016 | ND | 0.0027 | 0.00016 | ND | 0.040 | 0.0024 | 0.019 J | 0.051 | 0.0030 |
| c-1,3-Dichloropropene | ND | 0.0027 | 0.00032 | ND | 0.0027 | 0.00032 | ND | 0.040 | 0.0048 | ND | 0.051 | 0.0060 |
| 4-Methyl-2-Pentanone | ND | 0.0027 | 0.00018 | ND | 0.0027 | 0.00018 | ND | 0.040 | 0.0027 | ND | 0.051 | 0.0034 |
| Toluene | 0.026 | 0.0027 | 0.00021 | 0.028 | 0.0027 | 0.00021 | 1.5 | 0.040 | 0.0032 | 2.5 | 0.051 | 0.0040 |
| t-1,3-Dichloropropene | ND | 0.0027 | 0.00027 | ND | 0.0027 | 0.00027 | ND | 0.040 | 0.0042 | ND | 0.051 | 0.0052 |
| 1,1,2-Trichloroethane | ND | 0.0027 | 0.00043 | ND | 0.0027 | 0.00043 | ND | 0.040 | 0.0065 | ND | 0.051 | 0.0082 |
| 1,3-Dichloropropane | ND | 0.0027 | 0.00013 | ND | 0.0027 | 0.00013 | ND | 0.040 | 0.0020 | ND | 0.051 | 0.0025 |
| Tetrachloroethene | ND | 0.0027 | 0.00032 | ND | 0.0027 | 0.00032 | ND | 0.040 | 0.0049 | ND | 0.051 | 0.0061 |
| 2-Hexanone | ND | 0.0027 | 0.00055 | ND | 0.0027 | 0.00055 | ND | 0.040 | 0.0083 | ND | 0.051 | 0.010 |
| Dibromochloromethane | ND | 0.0027 | 0.00048 | ND | 0.0027 | 0.00048 | ND | 0.040 | 0.0074 | ND | 0.051 | 0.0092 |
| 1,2-Dibromoethane | ND | 0.0027 | 0.00024 | ND | 0.0027 | 0.00024 | ND | 0.040 | 0.0037 | ND | 0.051 | 0.0046 |
| Chlorobenzene | ND | 0.0027 | 0.00021 | ND | 0.0027 | 0.00021 | ND | 0.040 | 0.0031 | ND | 0.051 | 0.0039 |
| Ethylbenzene | 0.0090 | 0.0027 | 0.00015 | 0.0094 | 0.0027 | 0.00015 | 0.073 | 0.040 | 0.0023 | 0.22 | 0.051 | 0.0029 |
| p,&m-Xylene | 0.059 | 0.0027 | 0.00030 | 0.059 | 0.0027 | 0.00030 | 0.34 | 0.040 | 0.0046 | 1.2 | 0.051 | 0.0057 |
| o-Xylene | 0.030 | 0.0027 | 0.00032 | 0.030 | 0.0027 | 0.00032 | 0.12 | 0.040 | 0.0049 | 0.43 | 0.051 | 0.0061 |



Client: CH2M Hill
 Attn: Dan Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 07/08/16
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

| Lab No.: | H070805-01 | | | H070805-02 | | | H070805-03 | | | H070805-04 | | |
|------------------------------|---------------|---------|----------|---------------|---------|----------|--------------|---------|----------|---------------|---------|----------|
| Client Sample LD.: | VEFF-07-07 | | | VEFF-07-07-D | | | VPOST-07-07 | | | VINP-07-07 | | |
| Date/Time Sampled: | 7/7/16 9:44 | | | 7/7/16 9:44 | | | 7/7/16 11:01 | | | 7/7/16 11:06 | | |
| Date/Time Analyzed: | 7/11/16 22:26 | | | 7/11/16 23:26 | | | 7/12/16 4:04 | | | 7/12/16 13:25 | | |
| QC Batch No.: | 160711MS2A1 | | | 160711MS2A1 | | | 160712MS2A1 | | | 160712MS2A1 | | |
| Analyst Initials: | DT | | | DT | | | DT | | | DT | | |
| Dilution Factor: | 2.7 | | | 2.7 | | | 40 | | | 51 | | |
| 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 | 0.0015 J | 0.0027 | 0.00034 | 0.0017 J | 0.0027 | 0.00034 | ND | 0.040 | 0.0052 | 0.017 J | 0.051 | 0.0065 |
| Bromoform | ND | 0.0027 | 0.00015 | ND | 0.0027 | 0.00015 | ND | 0.040 | 0.0023 | ND | 0.051 | 0.0028 |
| Isopropyl benzene | 0.00035 J | 0.0027 | 0.00028 | 0.00040 J | 0.0027 | 0.00028 | ND | 0.040 | 0.0042 | 0.0098 J | 0.051 | 0.0053 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0053 | 0.00016 | ND | 0.0053 | 0.00016 | ND | 0.081 | 0.0025 | ND | 0.10 | 0.0031 |
| Benzyl Chloride | ND | 0.0027 | 0.00049 | ND | 0.0027 | 0.00049 | ND | 0.040 | 0.0074 | ND | 0.051 | 0.0093 |
| 1,2,3-Trichloropropane | ND | 0.0027 | 0.00071 | ND | 0.0027 | 0.00071 | ND | 0.040 | 0.011 | ND | 0.051 | 0.014 |
| n-Propyl Benzene | 0.00043 J | 0.0027 | 0.00015 | 0.00044 J | 0.0027 | 0.00015 | ND | 0.040 | 0.0024 | 0.011 J | 0.051 | 0.0029 |
| 4-Ethyl Toluene | 0.0028 | 0.0027 | 0.00017 | 0.0030 | 0.0027 | 0.00017 | 0.020 J | 0.040 | 0.0026 | 0.063 | 0.051 | 0.0032 |
| 1,3,5-Trimethylbenzene | 0.0011 J | 0.0053 | 0.00046 | 0.0012 J | 0.0053 | 0.00046 | 0.0073 J | 0.081 | 0.0070 | 0.025 J | 0.10 | 0.0087 |
| 4-Chlorotoluene | ND | 0.0027 | 0.00032 | ND | 0.0027 | 0.00032 | ND | 0.040 | 0.0048 | ND | 0.051 | 0.0060 |
| tert-Butylbenzene | ND | 0.0027 | 0.00024 | ND | 0.0027 | 0.00024 | ND | 0.040 | 0.0037 | ND | 0.051 | 0.0046 |
| 1,2,4-Trimethylbenzene | 0.0034 J | 0.0053 | 0.00030 | 0.0033 J | 0.0053 | 0.00030 | 0.020 J | 0.081 | 0.0046 | 0.023 J | 0.10 | 0.0057 |
| sec-Butylbenzene | ND | 0.0027 | 0.00026 | ND | 0.0027 | 0.00026 | ND | 0.040 | 0.0039 | ND | 0.051 | 0.0049 |
| p-Isopropyltoluene | 0.00055 J | 0.0027 | 0.00035 | 0.00084 J | 0.0027 | 0.00035 | ND | 0.040 | 0.0053 | ND | 0.051 | 0.0066 |
| 1,3-Dichlorobenzene | ND | 0.0027 | 0.00032 | ND | 0.0027 | 0.00032 | ND | 0.040 | 0.0049 | ND | 0.051 | 0.0061 |
| 1,4-Dichlorobenzene | ND | 0.0027 | 0.00039 | ND | 0.0027 | 0.00039 | ND | 0.040 | 0.0059 | ND | 0.051 | 0.0074 |
| n-Butylbenzene | 0.00037 J | 0.0027 | 0.00019 | 0.00041 J | 0.0027 | 0.00019 | ND | 0.040 | 0.0030 | ND | 0.051 | 0.0037 |
| 1,2-Dichlorobenzene | ND | 0.0027 | 0.00033 | ND | 0.0027 | 0.00033 | ND | 0.040 | 0.0050 | ND | 0.051 | 0.0063 |
| 1,2,4-Trichlorobenzene | ND | 0.0053 | 0.00044 | ND | 0.0053 | 0.00044 | ND | 0.081 | 0.0067 | ND | 0.10 | 0.0084 |
| Hexachlorobutadiene | ND | 0.0027 | 0.00016 | ND | 0.0027 | 0.00016 | ND | 0.040 | 0.0024 | ND | 0.051 | 0.0030 |
| t-Butanol | ND | 0.013 | 0.00051 | 0.0027 J | 0.013 | 0.00051 | 0.025 J | 0.20 | 0.0078 | 0.011 J | 0.25 | 0.0097 |
| n-Hexane | ND | 0.013 | 0.00036 | ND | 0.013 | 0.00036 | 7.3 | 0.20 | 0.0054 | 5.1 | 0.25 | 0.0068 |
| Isopropyl ether | ND | 0.013 | 0.00030 | ND | 0.013 | 0.00030 | ND | 0.20 | 0.0045 | ND | 0.25 | 0.0056 |
| t-Butyl ethyl ether | ND | 0.013 | 0.00053 | ND | 0.013 | 0.00053 | ND | 0.20 | 0.0081 | ND | 0.25 | 0.010 |
| 2,2-Dichloropropane | ND | 0.013 | 0.00025 | ND | 0.013 | 0.00025 | ND | 0.20 | 0.0038 | ND | 0.25 | 0.0048 |
| t-Amyl methyl ether | ND | 0.013 | 0.00019 | ND | 0.013 | 0.00019 | ND | 0.20 | 0.0029 | ND | 0.25 | 0.0036 |
| 1,4-Dioxane | ND | 0.013 | 0.00046 | ND | 0.013 | 0.00046 | ND | 0.20 | 0.0071 | ND | 0.25 | 0.0088 |
| Naphthalene | ND | 0.013 | 0.0010 | ND | 0.013 | 0.0010 | ND | 0.20 | 0.016 | ND | 0.25 | 0.019 |
| 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.

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 7/15/16

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: 07/08/16
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

| Lab No.: | METHOD BLANK | | | METHOD BLANK | | | | | | | | |
|-------------------------------|---------------|---------|----------|---------------|---------|----------|--|--|--|--|--|--|
| Client Sample I.D.: | -- | | | -- | | | | | | | | |
| Date/Time Sampled: | -- | | | -- | | | | | | | | |
| Date/Time Analyzed: | 7/11/16 21:38 | | | 7/12/16 11:35 | | | | | | | | |
| QC Batch No.: | 160711MS2A1 | | | 160712MS2A1 | | | | | | | | |
| 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 | 0.00021 | 0.00020 | 0.000059 | ND | 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 | ND | 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 | 0.00023 J | 0.0010 | 0.000058 | ND | 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 | 0.000037 J | 0.00020 | 0.000019 | 0.000035 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 | ND | 0.00020 | 0.000016 | ND | 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 | 0.000009 | ND | 0.00020 | 0.000009 | | | | | | |
| 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: 07/08/16
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

| Lab No.: | METHOD BLANK | | | METHOD BLANK | | | | | | | | |
|------------------------------|---------------|---------|----------|---------------|---------|----------|--|--|--|--|--|--|
| Client Sample I.D.: | -- | | | -- | | | | | | | | |
| Date/Time Sampled: | -- | | | -- | | | | | | | | |
| Date/Time Analyzed: | 7/11/16 21:38 | | | 7/12/16 11:35 | | | | | | | | |
| QC Batch No.: | 160711MS2A1 | | | 160712MS2A1 | | | | | | | | |
| 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 | ND | 0.00020 | 0.000026 | ND | 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 | 0.000017 J | 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
 Mark Johnson
 Operations Manager

Date 7/15/16

The cover letter is an integral part of this analytical report



QC Batch #: 160712MS2A1

Matrix: Air

| EPA Method TO-14/TO-15 | | | | | | | | | | | |
|---------------------------|---------------|--------------|--------------|-------|---------------|-------|--------|----------|-----------|----------|-----------|
| Lab No: | Method Blank | | LCS | | LCSD | | | | | | |
| Date/Time Analyzed: | 7/12/16 11:35 | | 7/12/16 9:36 | | 7/12/16 10:15 | | | | | | |
| Data File ID: | 12JUL006.D | | 12JUL003.D | | 12JUL004.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 | 9.0 | 90 | 9.4 | 94 | 3.7 | 70 | 130 | 30 | Pass |
| Methylene Chloride | 0.0 | 10.0 | 9.2 | 92 | 9.7 | 97 | 6.1 | 70 | 130 | 30 | Pass |
| Trichloroethene | 0.0 | 10.0 | 8.7 | 87 | 8.5 | 85 | 1.8 | 70 | 130 | 30 | Pass |
| Toluene | 0.0 | 10.0 | 9.1 | 91 | 8.9 | 89 | 2.7 | 70 | 130 | 30 | Pass |
| 1,1,2,2-Tetrachloroethane | 0.0 | 10.0 | 10.0 | 100 | 9.9 | 99 | 1.4 | 70 | 130 | 30 | Pass |

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 7/12/16

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: 07/08/16
 Matrix: Air
 Reporting Units: ppmv

EPA METHOD TO3

| Lab No.: | H070805-01 | | | H070805-02 | | | H070805-03 | | | H070805-04 | | |
|---------------------|--------------|---------|----------|---------------|---------|----------|---------------|---------|----------|---------------|---------|----------|
| Client Sample I.D.: | VEFF-07-07 | | | VEFF-07-07-D | | | VPOST-07-07 | | | VINP-07-07 | | |
| Date/Time Sampled: | 7/7/16 9:44 | | | 7/7/16 9:44 | | | 7/7/16 11:01 | | | 7/7/16 11:06 | | |
| Date/Time Analyzed: | 7/11/16 9:51 | | | 7/11/16 10:15 | | | 7/11/16 11:25 | | | 7/11/16 11:49 | | |
| QC Batch No.: | 160711GC11A1 | | | 160711GC11A1 | | | 160711GC11A1 | | | 160711GC11A1 | | |
| Analyst Initials: | AS | | | AS | | | AS | | | AS | | |
| Dilution Factor: | 2.7 | | | 2.7 | | | 2.0 | | | 2.5 | | |
| 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 |
| TVOC as Hexane | 0.72 | J | 0.47 | 0.65 | J | 0.47 | 210 | 2.0 | 0.36 | 170 | 2.5 | 0.44 |

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 7-15-16

The cover letter is an integral part of this analytical report



QC Batch No: 160711GC11A1
 Matrix: Air
 Reporting Units: ppmv

**EPA METHOD TO3
 LABORATORY CONTROL SAMPLE SUMMARY**

| Lab No.: | METHOD BLANK | | | LCS | | LCSD | | | | | |
|-------------------|----------------|------------|-------------|----------------|--------|----------------|--------|----------|-------------|--------------|-------------|
| Date Analyzed: | 7/11/16 9:27 | | | 7/11/16 8:41 | | 7/11/16 9:04 | | | | | |
| Analyst Initials: | AS | | | AS | | AS | | | | | |
| Dilution Factor: | 1.0 | | | 1.0 | | 1.0 | | | | | |
| ANALYTE | Result ppmv | RL ppmv | MDL ppmv | Result ppmv | % Rec. | Result ppmv | % Rec. | RPD % | Low %Rec | High %Rec | Max. RPD |
| TVOC as Hexane | ND | 1.0 | 0.18 | 4.62 | 92 | 4.64 | 93 | 0.4 | 70 | 130 | 25 |

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
 Mark Johnson
 Operations Manager

Date 7-15-16

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: 07/08/16
Matrix: Air
Reporting Units: % v/v

| ASTM D1946 | | | | | | | | | |
|----------------------------|-------------------------|---------------------|----------------------|--|--|--|--|--|--|
| Lab No.: | H070805-04 | | | | | | | | |
| Client Sample I.D.: | VINP-07-07 | | | | | | | | |
| Date/Time Sampled: | 7/7/16 11:06 | | | | | | | | |
| Date/Time Analyzed: | 7/8/16 11:49 | | | | | | | | |
| QC Batch No.: | 160708GC8A1 | | | | | | | | |
| Analyst Initials: | AS | | | | | | | | |
| Dilution Factor: | 2.5 | | | | | | | | |
| ANALYTE | Result % v/v | RL % v/v | MDL % v/v | | | | | | |
| Carbon Dioxide | 0.48 | 0.025 | 0.0011 | | | | | | |
| Oxygen/Argon | 21 | 1.3 | 0.093 | | | | | | |
| Nitrogen | 78 | 2.5 | 0.37 | | | | | | |
| Methane | 0.014 | 0.0025 | 0.00012 | | | | | | |
| | | | | | | | | | |

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 7-15-16

The cover letter is an integral part of this analytical report



QC Batch No.: 160708GC8A1
Matrix: Air
Units: % v/v

QC for ASTM D1946

| Lab No.: | Method Blank | | | LCS | | LCSD | | | |
|---------------------|--------------|--------|---------|-------------|----------|-------------|----------|------|----------|
| Date/Time Analyzed: | 7/8/16 8:51 | | | 7/8/16 8:06 | | 7/8/16 8:21 | | | |
| Analyst Initials: | AS | | | AS | | AS | | | |
| Datafile: | 08jul003 | | | 08jul.ru | | 08jul001 | | | |
| Dilution Factor: | 1.0 | | | 1.0 | | 1.0 | | | |
| ANALYTE | Results | RL | MDL | % Rec. | Criteria | % Rec. | Criteria | %RPD | Criteria |
| Carbon Dioxide | ND | 0.010 | 0.00042 | 109 | 70-130% | 114 | 70-130% | 4.5 | <30 |
| Oxygen/Argon | 0.10 | 0.50 | 0.03677 | 114 | 70-130% | 118 | 70-130% | 3.3 | <30 |
| Nitrogen | 0.32 | 1.0 | 0.14494 | 106 | 70-130% | 110 | 70-130% | 3.5 | <30 |
| Methane | ND | 0.0010 | 0.00005 | 95 | 70-130% | 94 | 70-130% | 1.6 | <30 |
| | | | | | | | | | |

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

Reviewed/Approved By: 
 Mark J. Johnson
 Operations Manager

Date: 7-15-16

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

August 10, 2016

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



ADE-1461
EPA Methods TO3,
TO14A, TO15 SIM & SCAN
ASTM D1946



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

TX Cert T104704450-14-6
EPA Methods TO14A, TO15

UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: SFPP - Norwalk Site
Lab Number: H080307-01/04

Enclosed are results for sample(s) received 8/03/16 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 8/10/16.

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 that reads "Mark Johnson".

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: 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: 08/03/16
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

| Lab No.: | H080307-01 | | | H080307-02 | | | H080307-03 | | | H080307-04 | | |
|-------------------------------|--------------|---------|----------|--------------|---------|----------|--------------|---------|----------|--------------|---------|----------|
| Client Sample I.D.: | VEFF-08-02 | | | VEFF-08-02-D | | | VPOST-08-02 | | | VINP-08-02 | | |
| Date/Time Sampled: | 8/2/16 9:50 | | | 8/2/16 9:50 | | | 8/2/16 11:05 | | | 8/2/16 11:15 | | |
| Date/Time Analyzed: | 8/8/16 23:43 | | | 8/9/16 0:25 | | | 8/8/16 21:37 | | | 8/8/16 22:19 | | |
| QC Batch No.: | 160808MS2A1 | | | 160809MS2A1 | | | 160808MS2A1 | | | 160808MS2A1 | | |
| Analyst Initials: | DT | | | DT | | | DT | | | DT | | |
| Dilution Factor: | 2.0 | | | 2.0 | | | 40 | | | 22 | | |
| 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 | 0.0020 | 0.00031 | ND | 0.0020 | 0.00031 | ND | 0.040 | 0.0062 | ND | 0.022 | 0.0034 |
| Chloromethane | ND | 0.0040 | 0.00044 | 0.0015 J | 0.0040 | 0.00044 | ND | 0.081 | 0.0089 | ND | 0.044 | 0.0048 |
| 1,2-CI-1,1,2,2-F ethane (114) | ND | 0.0020 | 0.00041 | ND | 0.0020 | 0.00041 | ND | 0.040 | 0.0081 | ND | 0.022 | 0.0044 |
| Vinyl Chloride | ND | 0.0020 | 0.00033 | ND | 0.0020 | 0.00033 | 0.042 | 0.040 | 0.0066 | ND | 0.022 | 0.0036 |
| Bromomethane | 0.00093 J | 0.0020 | 0.00059 | 0.00096 J | 0.0020 | 0.00059 | ND | 0.040 | 0.012 | ND | 0.022 | 0.0064 |
| Chloroethane | ND | 0.0020 | 0.0017 | ND | 0.0020 | 0.0017 | ND | 0.040 | 0.034 | ND | 0.022 | 0.018 |
| Trichlorofluoromethane (11) | ND | 0.0020 | 0.00044 | ND | 0.0020 | 0.00044 | ND | 0.040 | 0.0087 | ND | 0.022 | 0.0047 |
| 1,1-Dichloroethene | ND | 0.0020 | 0.00046 | ND | 0.0020 | 0.00046 | ND | 0.040 | 0.0092 | ND | 0.022 | 0.0050 |
| Carbon Disulfide | 0.14 | 0.010 | 0.00048 | 0.25 | 0.010 | 0.00048 | 0.25 | 0.20 | 0.0097 | ND | 0.11 | 0.0053 |
| 1,1,2-CI 1,2,2-F ethane (113) | ND | 0.0020 | 0.00054 | ND | 0.0020 | 0.00054 | ND | 0.040 | 0.011 | ND | 0.022 | 0.0059 |
| Acetone | 0.036 | 0.010 | 0.00058 | 0.033 | 0.010 | 0.00058 | 0.19 J | 0.20 | 0.012 | ND | 0.11 | 0.0063 |
| Methylene Chloride | ND | 0.0020 | 0.00058 | ND | 0.0020 | 0.00058 | ND | 0.040 | 0.012 | ND | 0.022 | 0.0063 |
| t-1,2-Dichloroethene | ND | 0.0020 | 0.00060 | ND | 0.0020 | 0.00060 | ND | 0.040 | 0.012 | ND | 0.022 | 0.0066 |
| 1,1-Dichloroethane | ND | 0.0020 | 0.00028 | ND | 0.0020 | 0.00028 | 0.013 J | 0.040 | 0.0055 | ND | 0.022 | 0.0030 |
| c-1,2-Dichloroethene | ND | 0.0020 | 0.00039 | ND | 0.0020 | 0.00039 | 0.030 J | 0.040 | 0.0078 | ND | 0.022 | 0.0042 |
| 2-Butanone | 0.047 | 0.0020 | 0.0012 | 0.055 | 0.0020 | 0.0012 | 0.14 | 0.040 | 0.025 | 0.063 | 0.022 | 0.014 |
| t-Butyl Methyl Ether (MTBE) | ND | 0.0020 | 0.00045 | ND | 0.0020 | 0.00045 | ND | 0.040 | 0.0090 | ND | 0.022 | 0.0049 |
| Chloroform | ND | 0.0020 | 0.00028 | ND | 0.0020 | 0.00028 | ND | 0.040 | 0.0057 | ND | 0.022 | 0.0031 |
| 1,1,1-Trichloroethane | ND | 0.0020 | 0.00020 | ND | 0.0020 | 0.00020 | ND | 0.040 | 0.0041 | ND | 0.022 | 0.0022 |
| Carbon Tetrachloride | ND | 0.0020 | 0.00035 | ND | 0.0020 | 0.00035 | ND | 0.040 | 0.0070 | ND | 0.022 | 0.0038 |
| Benzene | 0.0016 J | 0.0020 | 0.00019 | 0.0017 J | 0.0020 | 0.00019 | 2.7 | 0.040 | 0.0039 | 1.9 | 0.022 | 0.0021 |
| 1,2-Dichloroethane | ND | 0.0020 | 0.00015 | ND | 0.0020 | 0.00015 | 0.019 J | 0.040 | 0.0030 | 0.0097 J | 0.022 | 0.0016 |
| Trichloroethene | ND | 0.0020 | 0.00029 | ND | 0.0020 | 0.00029 | 0.022 J | 0.040 | 0.0057 | 0.0032 J | 0.022 | 0.0031 |
| 1,2-Dichloropropane | ND | 0.0020 | 0.00037 | ND | 0.0020 | 0.00037 | ND | 0.040 | 0.0073 | ND | 0.022 | 0.0040 |
| Bromodichloromethane | ND | 0.0020 | 0.00012 | ND | 0.0020 | 0.00012 | ND | 0.040 | 0.0024 | ND | 0.022 | 0.0013 |
| c-1,3-Dichloropropene | ND | 0.0020 | 0.00024 | ND | 0.0020 | 0.00024 | ND | 0.040 | 0.0048 | ND | 0.022 | 0.0026 |
| 4-Methyl-2-Pentanone | ND | 0.0020 | 0.00014 | ND | 0.0020 | 0.00014 | ND | 0.040 | 0.0027 | ND | 0.022 | 0.0015 |
| Toluene | 0.0072 | 0.0020 | 0.00016 | 0.0064 | 0.0020 | 0.00016 | 7.6 | 0.040 | 0.0032 | 5.0 | 0.022 | 0.0017 |
| t-1,3-Dichloropropene | ND | 0.0020 | 0.00021 | 0.00034 J | 0.0020 | 0.00021 | ND | 0.040 | 0.0042 | ND | 0.022 | 0.0023 |
| 1,1,2-Trichloroethane | ND | 0.0020 | 0.00033 | ND | 0.0020 | 0.00033 | ND | 0.040 | 0.0065 | ND | 0.022 | 0.0036 |
| 1,3-Dichloropropane | ND | 0.0020 | 0.00010 | ND | 0.0020 | 0.00010 | ND | 0.040 | 0.0020 | ND | 0.022 | 0.0011 |
| Tetrachloroethene | ND | 0.0020 | 0.00024 | ND | 0.0020 | 0.00024 | ND | 0.040 | 0.0049 | ND | 0.022 | 0.0026 |
| 2-Hexanone | ND | 0.0020 | 0.00042 | ND | 0.0020 | 0.00042 | ND | 0.040 | 0.0083 | ND | 0.022 | 0.0045 |
| Dibromochloromethane | ND | 0.0020 | 0.00037 | ND | 0.0020 | 0.00037 | ND | 0.040 | 0.0074 | ND | 0.022 | 0.0040 |
| 1,2-Dibromoethane | ND | 0.0020 | 0.00018 | ND | 0.0020 | 0.00018 | ND | 0.040 | 0.0037 | ND | 0.022 | 0.0020 |
| Chlorobenzene | ND | 0.0020 | 0.00016 | ND | 0.0020 | 0.00016 | 0.18 | 0.040 | 0.0031 | 0.017 J | 0.022 | 0.0017 |
| Ethylbenzene | 0.00091 J | 0.0020 | 0.00012 | 0.00085 J | 0.0020 | 0.00012 | 1.4 | 0.040 | 0.0023 | 0.72 | 0.022 | 0.0013 |
| p,&m-Xylene | 0.0064 | 0.0020 | 0.00023 | 0.0062 | 0.0020 | 0.00023 | 8.7 | 0.040 | 0.0046 | 4.8 | 0.022 | 0.0025 |
| o-Xylene | 0.0028 | 0.0020 | 0.00025 | 0.0025 | 0.0020 | 0.00025 | 4.9 | 0.040 | 0.0049 | 2.6 | 0.022 | 0.0027 |



Client: CH2M Hill
 Attn: Dan Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 08/03/16
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

| Lab No.: | H080307-01 | | | H080307-02 | | | H080307-03 | | | H080307-04 | | |
|------------------------------|--------------|---------|----------|--------------|---------|----------|--------------|---------|----------|--------------|---------|----------|
| Client Sample I.D.: | VEFF-08-02 | | | VEFF-08-02-D | | | VPOST-08-02 | | | VINP-08-02 | | |
| Date/Time Sampled: | 8/2/16 9:50 | | | 8/2/16 9:50 | | | 8/2/16 11:05 | | | 8/2/16 11:15 | | |
| Date/Time Analyzed: | 8/8/16 23:43 | | | 8/9/16 0:25 | | | 8/8/16 21:37 | | | 8/8/16 22:19 | | |
| QC Batch No.: | 160808MS2A1 | | | 160809MS2A1 | | | 160808MS2A1 | | | 160808MS2A1 | | |
| Analyst Initials: | DT | | | DT | | | DT | | | DT | | |
| Dilution Factor: | 2.0 | | | 2.0 | | | 40 | | | 22 | | |
| 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 | 0.00048 J | 0.0020 | 0.00026 | 0.00036 J | 0.0020 | 0.00026 | 0.16 | 0.040 | 0.0052 | 0.084 | 0.022 | 0.0028 |
| Bromoform | ND | 0.0020 | 0.00011 | ND | 0.0020 | 0.00011 | ND | 0.040 | 0.0023 | ND | 0.022 | 0.0012 |
| Isopropyl benzene | ND | 0.0020 | 0.00021 | ND | 0.0020 | 0.00021 | 0.11 | 0.040 | 0.0042 | 0.048 | 0.022 | 0.0023 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0040 | 0.00012 | ND | 0.0040 | 0.00012 | ND | 0.081 | 0.0025 | ND | 0.044 | 0.0013 |
| Benzyl Chloride | ND | 0.0020 | 0.00037 | ND | 0.0020 | 0.00037 | ND | 0.040 | 0.0074 | ND | 0.022 | 0.0040 |
| 1,2,3-Trichloropropane | ND | 0.0020 | 0.00054 | ND | 0.0020 | 0.00054 | 0.020 J | 0.040 | 0.011 | ND | 0.022 | 0.0059 |
| n-Propyl Benzene | ND | 0.0020 | 0.00012 | ND | 0.0020 | 0.00012 | 0.18 | 0.040 | 0.0024 | 0.076 | 0.022 | 0.0013 |
| 4-Ethyl Toluene | 0.0012 J | 0.0020 | 0.00013 | 0.0012 J | 0.0020 | 0.00013 | 1.9 | 0.040 | 0.0026 | 0.82 | 0.022 | 0.0014 |
| 1,3,5-Trimethylbenzene | 0.00049 J | 0.0040 | 0.00035 | 0.00048 J | 0.0040 | 0.00035 | 1.1 | 0.081 | 0.0070 | 0.47 | 0.044 | 0.0038 |
| 4-Chlorotoluene | ND | 0.0020 | 0.00024 | ND | 0.0020 | 0.00024 | ND | 0.040 | 0.0048 | ND | 0.022 | 0.0026 |
| tert-Butylbenzene | 0.00026 J | 0.0020 | 0.00018 | ND | 0.0020 | 0.00018 | 0.20 | 0.040 | 0.0037 | 0.068 | 0.022 | 0.0020 |
| 1,2,4-Trimethylbenzene | 0.0018 J | 0.0040 | 0.00023 | 0.0017 J | 0.0040 | 0.00023 | 1.3 | 0.081 | 0.0046 | 0.45 | 0.044 | 0.0025 |
| sec-Butylbenzene | ND | 0.0020 | 0.00020 | ND | 0.0020 | 0.00020 | 0.027 J | 0.040 | 0.0039 | 0.012 J | 0.022 | 0.0021 |
| p-Isopropyltoluene | 0.0027 | 0.0020 | 0.00026 | 0.0012 J | 0.0020 | 0.00026 | 0.11 | 0.040 | 0.0053 | 0.012 J | 0.022 | 0.0029 |
| 1,3-Dichlorobenzene | ND | 0.0020 | 0.00025 | ND | 0.0020 | 0.00025 | ND | 0.040 | 0.0049 | ND | 0.022 | 0.0027 |
| 1,4-Dichlorobenzene | ND | 0.0020 | 0.00030 | ND | 0.0020 | 0.00030 | 0.026 J | 0.040 | 0.0059 | ND | 0.022 | 0.0032 |
| n-Butylbenzene | 0.00019 J | 0.0020 | 0.00015 | ND | 0.0020 | 0.00015 | ND | 0.040 | 0.0030 | ND | 0.022 | 0.0016 |
| 1,2-Dichlorobenzene | ND | 0.0020 | 0.00025 | ND | 0.0020 | 0.00025 | ND | 0.040 | 0.0050 | ND | 0.022 | 0.0027 |
| 1,2,4-Trichlorobenzene | ND | 0.0040 | 0.00033 | ND | 0.0040 | 0.00033 | ND | 0.081 | 0.0067 | ND | 0.044 | 0.0036 |
| Hexachlorobutadiene | ND | 0.0020 | 0.00012 | ND | 0.0020 | 0.00012 | ND | 0.040 | 0.0024 | ND | 0.022 | 0.0013 |
| t-Butanol | ND | 0.010 | 0.00039 | ND | 0.010 | 0.00039 | 0.039 J | 0.20 | 0.0078 | ND | 0.11 | 0.0042 |
| n-Hexane | ND | 0.010 | 0.00027 | ND | 0.010 | 0.00027 | 17 d | 0.40 | 0.011 | 11 d | 0.27 | 0.0074 |
| Isopropyl ether | ND | 0.010 | 0.00022 | ND | 0.010 | 0.00022 | ND | 0.20 | 0.0045 | ND | 0.11 | 0.0024 |
| t-Butyl ethyl ether | ND | 0.010 | 0.00040 | ND | 0.010 | 0.00040 | ND | 0.20 | 0.0081 | ND | 0.11 | 0.0044 |
| 2,2-Dichloropropane | ND | 0.010 | 0.00019 | ND | 0.010 | 0.00019 | ND | 0.20 | 0.0038 | ND | 0.11 | 0.0021 |
| t-Amyl methyl ether | ND | 0.010 | 0.00014 | ND | 0.010 | 0.00014 | ND | 0.20 | 0.0029 | ND | 0.11 | 0.0016 |
| 1,4-Dioxane | ND | 0.010 | 0.00035 | ND | 0.010 | 0.00035 | ND | 0.20 | 0.0071 | ND | 0.11 | 0.0038 |
| Naphthalene | ND | 0.010 | 0.00078 | ND | 0.010 | 0.00078 | ND | 0.20 | 0.016 | ND | 0.11 | 0.0084 |
| 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 reports from secondary dilution. Batch ID:160809MS2A1

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 8/15/16

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: 08/03/16
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

| Lab No.: | METHOD BLANK | | | METHOD BLANK | | | | | | | | |
|-------------------------------|--------------|---------|----------|--------------|---------|----------|--|--|--|--|--|--|
| Client Sample I.D.: | - | | | - | | | | | | | | |
| Date/Time Sampled: | - | | | - | | | | | | | | |
| Date/Time Analyzed: | 8/8/16 12:55 | | | 8/9/16 13:20 | | | | | | | | |
| QC Batch No.: | 160808MS2A1 | | | 160809MS2A1 | | | | | | | | |
| 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 | ND | 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 | ND | 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 | 0.00012 J | 0.00020 | 0.000019 | 0.000071 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 | ND | 0.00020 | 0.000016 | ND | 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 | 0.000099 | ND | 0.00020 | 0.000099 | | | | | | |
| 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: 08/03/16
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

| Lab No.: | METHOD BLANK | | | METHOD BLANK | | | | | | | | | |
|------------------------------|--------------|---------|----------|--------------|---------|----------|--|--|--|--|--|--|--|
| Client Sample I.D.: | - | | | - | | | | | | | | | |
| Date/Time Sampled: | - | | | - | | | | | | | | | |
| Date/Time Analyzed: | 8/8/16 12:55 | | | 8/9/16 13:20 | | | | | | | | | |
| QC Batch No.: | 160808MS2A1 | | | 160809MS2A1 | | | | | | | | | |
| 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 | ND | 0.00020 | 0.000026 | ND | 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
 Mark Johnson
 Operations Manager

Date: 8/10/16

The cover letter is an integral part of this analytical report



QC Batch #: 160808MS2A1

Matrix: Air

| EPA Method TO-14/TO-15 | | | | | | | | | | | |
|---------------------------|--------------|--------------|--------------|-------|--------------|-------|--------|----------|-----------|----------|-----------|
| Lab No: | Method Blank | | LCS | | LCSD | | | | | | |
| Date/Time Analyzed: | 8/8/16 12:55 | | 8/8/16 11:31 | | 8/8/16 12:10 | | | | | | |
| Data File ID: | 08AUG005.D | | 08AUG003.D | | 08AUG004.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 | 12.1 | 121 | 11.8 | 118 | 2.0 | 70 | 130 | 30 | Pass |
| Methylene Chloride | 0.0 | 10.0 | 12.2 | 122 | 11.4 | 114 | 6.7 | 70 | 130 | 30 | Pass |
| Trichloroethene | 0.0 | 10.0 | 11.3 | 113 | 11.4 | 114 | 0.5 | 70 | 130 | 30 | Pass |
| Toluene | 0.0 | 10.0 | 10.9 | 109 | 11.1 | 111 | 1.9 | 70 | 130 | 30 | Pass |
| 1,1,2,2-Tetrachloroethane | 0.0 | 10.0 | 9.2 | 92 | 9.4 | 94 | 2.2 | 70 | 130 | 30 | Pass |

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 8/10/16

The cover letter is an integral part of this analytical report



QC Batch #: 160809MS2A1

Matrix: Air

| EPA Method TO-14/TO-15 | | | | | | | | | | | |
|---------------------------|--------------|--------------|--------------|-------|--------------|-------|--------|----------|-----------|----------|-----------|
| Lab No: | Method Blank | | LCS | | LCSD | | | | | | |
| Date/Time Analyzed: | 8/9/16 13:20 | | 8/9/16 12:00 | | 8/9/16 12:38 | | | | | | |
| Data File ID: | 09AUG006.D | | 09AUG004.D | | 09AUG005.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 | 11.4 | 114 | 11.3 | 113 | 1.3 | 70 | 130 | 30 | Pass |
| Methylene Chloride | 0.0 | 10.0 | 11.4 | 114 | 11.2 | 112 | 2.3 | 70 | 130 | 30 | Pass |
| Trichloroethene | 0.0 | 10.0 | 10.6 | 106 | 10.6 | 106 | 0.3 | 70 | 130 | 30 | Pass |
| Toluene | 0.0 | 10.0 | 10.7 | 107 | 10.6 | 106 | 0.7 | 70 | 130 | 30 | Pass |
| 1,1,2,2-Tetrachloroethane | 0.0 | 10.0 | 9.3 | 93 | 9.4 | 94 | 0.7 | 70 | 130 | 30 | Pass |

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 8/10/16

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: 08/03/16
 Matrix: Air
 Reporting Units: ppmv

EPA METHOD TO3

| Lab No.: | H080307-01 | H080307-02 | H080307-03 | H080307-04 | | | | | | | | |
|---------------------|----------------|--------------|--------------|----------------|------------|-------------|----------------|------------|-------------|----------------|------------|-------------|
| Client Sample I.D.: | VEFF-08-02 | VEFF-08-02-D | VPOST-08-02 | VINF-08-02 | | | | | | | | |
| Date/Time Sampled: | 8/2/16 9:50 | 8/2/16 9:50 | 8/2/16 11:05 | 8/2/16 11:15 | | | | | | | | |
| Date/Time Analyzed: | 8/4/16 14:40 | 8/4/16 15:03 | 8/4/16 16:59 | 8/4/16 15:50 | | | | | | | | |
| QC Batch No.: | 160804GC11A1 | 160804GC11A1 | 160804GC11A1 | 160804GC11A1 | | | | | | | | |
| Analyst Initials: | AS | AS | AS | AS | | | | | | | | |
| Dilution Factor: | 2.0 | 2.0 | 4.0 | 2.2 | | | | | | | | |
| 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 |
| TVOC as Hexane | 0.41 | J 2.0 | 0.36 | 0.39 | J 2.0 | 0.36 | 270 | 4.0 | 0.71 | 260 | 2.2 | 0.39 |

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 8-10-16

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: 08/03/16
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

| Lab No.: | H080307-04 | | | | | | | | | | | | | | | | | | |
|---------------------|-----------------|-------------|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Client Sample I.D.: | VINP-08-02 | | | | | | | | | | | | | | | | | | |
| Date/Time Sampled: | 8/2/16 11:15 | | | | | | | | | | | | | | | | | | |
| Date/Time Analyzed: | 8/4/16 10:15 | | | | | | | | | | | | | | | | | | |
| QC Batch No.: | 160804GC8A1 | | | | | | | | | | | | | | | | | | |
| Analyst Initials: | AS | | | | | | | | | | | | | | | | | | |
| Dilution Factor: | 2.2 | | | | | | | | | | | | | | | | | | |
| ANALYTE | Result % v/v | RL % v/v | MDL % v/v | | | | | | | | | | | | | | | | |
| Carbon Dioxide | 0.54 | 0.022 | 0.00093 | | | | | | | | | | | | | | | | |
| Oxygen/Argon | 21 | 1.1 | 0.081 | | | | | | | | | | | | | | | | |
| Nitrogen | 78 | 2.2 | 0.32 | | | | | | | | | | | | | | | | |
| Methane | 0.0047 | 0.0022 | 0.00010 | | | | | | | | | | | | | | | | |

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
 Mark Johnson
 Operations Manager

Date 8-9-16

The cover letter is an integral part of this analytical report



QC for ASTM D1946

| Lab No.: | Method Blank | | | LCS | | LCSD | | | |
|---------------------|--------------|--------|----------|-------------|----------|-------------|----------|------|----------|
| Date/Time Analyzed: | 8/4/16 8:47 | | | 8/4/16 8:03 | | 8/4/16 8:18 | | | |
| Analyst Initials: | AS | | | AS | | AS | | | |
| Datafile: | 04aug003 | | | 04aug.ru | | 04aug001 | | | |
| Dilution Factor: | 1.0 | | | 1.0 | | 1.0 | | | |
| ANALYTE | Results | RL | MDL | % Rec. | Criteria | % Rec. | Criteria | %RPD | Criteria |
| Carbon Dioxide | 0.0011 J | 0.010 | 0.00042 | 92 | 70-130% | 93 | 70-130% | 1.1 | <30 |
| Oxygen/Argon | 0.17 J | 0.50 | 0.037 | 102 | 70-130% | 102 | 70-130% | 0.2 | <30 |
| Nitrogen | 0.55 J | 1.0 | 0.14 | 99 | 70-130% | 99 | 70-130% | 0.3 | <30 |
| Methane | 0.00042 J | 0.0010 | 0.000050 | 103 | 70-130% | 101 | 70-130% | 1.9 | <30 |
| | | | | | | | | | |

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 J. Johnson
Operations Manager

Date:

8-9-16

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



September 23, 2016

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



ADE-1461
EPA Methods TO3,
TO14A, TO15 SIM & SCAN
ASTM D1946



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

TX Cert T104704450-14-6
EPA Methods TO14A, TO15

UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: SFPP - Norwalk Site
Lab Number: H090808-01/04

Enclosed are results for sample(s) received 9/08/16 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, Kinder Morgan, on 9/15/16.

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.

Client: CH2M Hill
 Attn: Dan Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 09/08/16
 Matrix: Air
 Reporting Units: ppmv

| EPA Method TO15 | | | | | | | | | | | | |
|-------------------------------|--------------|---------|----------|--------------|---------|----------|--------------|---------|----------|--------------|---------|----------|
| Lab No.: | H090808-01 | | | H090808-02 | | | H090808-03 | | | H090808-04 | | |
| Client Sample I.D.: | VEFF-09-07 | | | VEFF-09-07-D | | | VPOST-09-07 | | | VINP-09-07 | | |
| Date/Time Sampled: | 9/7/16 10:30 | | | 9/7/16 10:30 | | | 9/7/16 12:00 | | | 9/7/16 12:10 | | |
| Date/Time Analyzed: | 9/9/16 17:08 | | | 9/9/16 17:47 | | | 9/9/16 18:26 | | | 9/9/16 19:06 | | |
| QC Batch No.: | 160909MS2A1 | | | 160909MS2A1 | | | 160909MS2A1 | | | 160909MS2A1 | | |
| Analyst Initials: | VM | | | VM | | | VM | | | VM | | |
| Dilution Factor: | 2.0 | | | 2.0 | | | 40 | | | 21 | | |
| 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 | 0.0020 | 0.00031 | ND | 0.0020 | 0.00031 | ND | 0.040 | 0.0062 | ND | 0.021 | 0.0032 |
| Chloromethane | ND | 0.0040 | 0.00044 | ND | 0.0040 | 0.00044 | ND | 0.081 | 0.0089 | ND | 0.042 | 0.0046 |
| 1,2-Di-1,1,2,2-F ethane (114) | ND | 0.0020 | 0.00041 | ND | 0.0020 | 0.00041 | ND | 0.040 | 0.0081 | ND | 0.021 | 0.0042 |
| Vinyl Chloride | ND | 0.0020 | 0.00033 | ND | 0.0020 | 0.00033 | ND | 0.040 | 0.0066 | ND | 0.021 | 0.0034 |
| Bromomethane | 0.0014 J | 0.0051 | 0.00059 | 0.0011 J | 0.0051 | 0.00059 | 0.020 J | 0.10 | 0.012 | ND | 0.053 | 0.0062 |
| Chloroethane | ND | 0.0020 | 0.0017 | ND | 0.0020 | 0.0017 | ND | 0.040 | 0.034 | ND | 0.021 | 0.018 |
| Trichlorofluoromethane (11) | ND | 0.0020 | 0.00044 | ND | 0.0020 | 0.00044 | ND | 0.040 | 0.0087 | ND | 0.021 | 0.0045 |
| 1,1-Dichloroethene | ND | 0.0020 | 0.00046 | ND | 0.0020 | 0.00046 | ND | 0.040 | 0.0092 | ND | 0.021 | 0.0048 |
| Carbon Disulfide | 0.039 | 0.010 | 0.00048 | 0.18 | 0.010 | 0.00048 | 0.097 J | 0.20 | 0.0097 | 0.025 J | 0.11 | 0.0050 |
| 1,1,2-Di-1,2,2-F ethane (113) | ND | 0.0020 | 0.00054 | ND | 0.0020 | 0.00054 | ND | 0.040 | 0.011 | ND | 0.021 | 0.0057 |
| Acetone | 0.0065 J | 0.010 | 0.00058 | 0.0063 J | 0.010 | 0.00058 | ND | 0.20 | 0.012 | 0.071 J | 0.11 | 0.0061 |
| Methylene Chloride | ND | 0.0020 | 0.00058 | ND | 0.0020 | 0.00058 | ND | 0.040 | 0.012 | ND | 0.021 | 0.0060 |
| t-1,2-Dichloroethene | ND | 0.0020 | 0.00060 | ND | 0.0020 | 0.00060 | ND | 0.040 | 0.012 | ND | 0.021 | 0.0063 |
| 1,1-Dichloroethane | ND | 0.0020 | 0.00028 | ND | 0.0020 | 0.00028 | ND | 0.040 | 0.0055 | ND | 0.021 | 0.0029 |
| c-1,2-Dichloroethene | ND | 0.0020 | 0.00039 | ND | 0.0020 | 0.00039 | 0.035 J | 0.040 | 0.0078 | ND | 0.021 | 0.0041 |
| 2-Butanone | ND | 0.0020 | 0.0012 | 0.0015 J | 0.0020 | 0.0012 | ND | 0.040 | 0.025 | 0.057 | 0.021 | 0.013 |
| t-Butyl Methyl Ether (MTBE) | ND | 0.0020 | 0.00045 | ND | 0.0020 | 0.00045 | ND | 0.040 | 0.0090 | ND | 0.021 | 0.0047 |
| Chloroform | ND | 0.0020 | 0.00028 | ND | 0.0020 | 0.00028 | ND | 0.040 | 0.0057 | ND | 0.021 | 0.0029 |
| 1,1,1-Trichloroethane | ND | 0.0020 | 0.00020 | ND | 0.0020 | 0.00020 | ND | 0.040 | 0.0041 | ND | 0.021 | 0.0021 |
| Carbon Tetrachloride | ND | 0.0020 | 0.00035 | ND | 0.0020 | 0.00035 | ND | 0.040 | 0.0070 | ND | 0.021 | 0.0037 |
| Benzene | 0.00061 J | 0.0020 | 0.00019 | 0.00063 J | 0.0020 | 0.00019 | 2.4 | 0.040 | 0.0039 | 1.6 | 0.021 | 0.0020 |
| 1,2-Dichloroethane | ND | 0.0020 | 0.00015 | ND | 0.0020 | 0.00015 | 0.015 J | 0.040 | 0.0030 | 0.011 J | 0.021 | 0.0016 |
| Trichloroethene | ND | 0.0020 | 0.00029 | ND | 0.0020 | 0.00029 | 0.12 | 0.040 | 0.0057 | ND | 0.021 | 0.0030 |
| 1,2-Dichloropropane | ND | 0.0020 | 0.00037 | ND | 0.0020 | 0.00037 | ND | 0.040 | 0.0073 | ND | 0.021 | 0.0038 |
| Bromodichloromethane | ND | 0.0020 | 0.00012 | ND | 0.0020 | 0.00012 | ND | 0.040 | 0.0024 | ND | 0.021 | 0.0013 |
| c-1,3-Dichloropropene | ND | 0.0020 | 0.00024 | ND | 0.0020 | 0.00024 | ND | 0.040 | 0.0048 | ND | 0.021 | 0.0025 |
| 4-Methyl-2-Pentanone | ND | 0.0020 | 0.00014 | ND | 0.0020 | 0.00014 | ND | 0.040 | 0.0027 | ND | 0.021 | 0.0014 |
| Toluene | 0.00051 J | 0.0020 | 0.00016 | 0.00059 J | 0.0020 | 0.00016 | 6.0 | 0.040 | 0.0032 | 3.8 | 0.021 | 0.0017 |
| t-1,3-Dichloropropene | ND | 0.0020 | 0.00021 | ND | 0.0020 | 0.00021 | ND | 0.040 | 0.0042 | ND | 0.021 | 0.0022 |
| 1,1,2-Trichloroethane | ND | 0.0020 | 0.00033 | ND | 0.0020 | 0.00033 | ND | 0.040 | 0.0065 | ND | 0.021 | 0.0034 |
| 1,3-Dichloropropane | ND | 0.0020 | 0.00010 | ND | 0.0020 | 0.00010 | ND | 0.040 | 0.0020 | ND | 0.021 | 0.0010 |
| Tetrachloroethene | 0.00052 J | 0.0020 | 0.00024 | ND | 0.0020 | 0.00024 | 0.053 | 0.040 | 0.0049 | 0.023 | 0.021 | 0.0025 |
| 2-Hexanone | ND | 0.0020 | 0.00042 | ND | 0.0020 | 0.00042 | ND | 0.040 | 0.0083 | ND | 0.021 | 0.0043 |
| Dibromochloromethane | ND | 0.0020 | 0.00037 | ND | 0.0020 | 0.00037 | ND | 0.040 | 0.0074 | ND | 0.021 | 0.0038 |
| 1,2-Dibromoethane | ND | 0.0020 | 0.00018 | ND | 0.0020 | 0.00018 | ND | 0.040 | 0.0037 | ND | 0.021 | 0.0019 |
| Chlorobenzene | ND | 0.0020 | 0.00016 | ND | 0.0020 | 0.00016 | 0.017 J | 0.040 | 0.0031 | 0.011 J | 0.021 | 0.0016 |
| Ethylbenzene | ND | 0.0020 | 0.00012 | ND | 0.0020 | 0.00012 | 0.97 | 0.040 | 0.0023 | 0.68 | 0.021 | 0.0012 |
| p,m-Xylene | 0.00038 J | 0.0020 | 0.00023 | 0.00026 J | 0.0020 | 0.00023 | 6.3 | 0.040 | 0.0046 | 3.8 | 0.021 | 0.0024 |
| o-Xylene | ND | 0.0020 | 0.00025 | ND | 0.0020 | 0.00025 | 3.5 | 0.040 | 0.0049 | 2.2 | 0.021 | 0.0026 |



Client: CH2M Hill
 Attn: Dan Jablonski
 Project Name: SFPP - Norwalk Site
 Project No.: NA
 Date Received: 09/08/16
 Matrix: Air
 Reporting Units: ppmv

| EPA Method TO15 | | | | | | | | | | | | |
|------------------------------|--------------|---------|----------|--------------|---------|----------|--------------|---------|----------|--------------|---------|----------|
| Lab No.: | H090808-01 | | | H090808-02 | | | H090808-03 | | | H090808-04 | | |
| Client Sample I.D.: | VEFF-09-07 | | | VEFF-09-07-D | | | VPOST-09-07 | | | VINP-09-07 | | |
| Date/Time Sampled: | 9/7/16 10:30 | | | 9/7/16 10:30 | | | 9/7/16 12:00 | | | 9/7/16 12:10 | | |
| Date/Time Analyzed: | 9/9/16 17:08 | | | 9/9/16 17:47 | | | 9/9/16 18:26 | | | 9/9/16 19:06 | | |
| QC Batch No.: | 160909MS2A1 | | | 160909MS2A1 | | | 160909MS2A1 | | | 160909MS2A1 | | |
| Analyst Initials: | VM | | | VM | | | VM | | | VM | | |
| Dilution Factor: | 2.0 | | | 2.0 | | | 40 | | | 21 | | |
| 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 | 0.0020 | 0.00026 | ND | 0.0020 | 0.00026 | 0.11 | 0.040 | 0.0052 | 0.078 | 0.021 | 0.0027 |
| Bromoform | ND | 0.010 | 0.00011 | ND | 0.010 | 0.00011 | ND | 0.20 | 0.0023 | ND | 0.11 | 0.0012 |
| Isopropyl benzene | ND | 0.0020 | 0.00021 | ND | 0.0020 | 0.00021 | 0.078 | 0.040 | 0.0042 | 0.057 | 0.021 | 0.0022 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0040 | 0.00012 | ND | 0.0040 | 0.00012 | ND | 0.081 | 0.0025 | ND | 0.042 | 0.0013 |
| Benzyl Chloride | ND | 0.0020 | 0.00037 | ND | 0.0020 | 0.00037 | ND | 0.040 | 0.0074 | ND | 0.021 | 0.0039 |
| 1,2,3-Trichloropropane | ND | 0.0020 | 0.00054 | ND | 0.0020 | 0.00054 | ND | 0.040 | 0.011 | ND | 0.021 | 0.0057 |
| n-Propyl Benzene | ND | 0.0020 | 0.00012 | ND | 0.0020 | 0.00012 | 0.16 | 0.040 | 0.0024 | 0.10 | 0.021 | 0.0012 |
| 4-Ethyl Toluene | ND | 0.0020 | 0.00013 | ND | 0.0020 | 0.00013 | 1.8 | 0.040 | 0.0026 | 1.2 | 0.021 | 0.0013 |
| 1,3,5-Trimethylbenzene | ND | 0.0040 | 0.00035 | ND | 0.0040 | 0.00035 | 0.88 | 0.081 | 0.0070 | 0.57 | 0.042 | 0.0036 |
| 4-Chlorotoluene | ND | 0.0020 | 0.00024 | ND | 0.0020 | 0.00024 | ND | 0.040 | 0.0048 | ND | 0.021 | 0.0025 |
| tert-Butylbenzene | ND | 0.0020 | 0.00018 | ND | 0.0020 | 0.00018 | ND | 0.040 | 0.0037 | ND | 0.021 | 0.0019 |
| 1,2,4-Trimethylbenzene | ND | 0.0040 | 0.00023 | ND | 0.0040 | 0.00023 | 1.1 | 0.081 | 0.0046 | 0.72 | 0.042 | 0.0024 |
| sec-Butylbenzene | ND | 0.0020 | 0.00020 | ND | 0.0020 | 0.00020 | 0.022 J | 0.040 | 0.0039 | 0.015 J | 0.021 | 0.0020 |
| p-Isopropyltoluene | 0.00065 J | 0.0020 | 0.00026 | 0.00085 J | 0.0020 | 0.00026 | 0.025 J | 0.040 | 0.0053 | 0.017 J | 0.021 | 0.0027 |
| 1,3-Dichlorobenzene | ND | 0.0020 | 0.00025 | ND | 0.0020 | 0.00025 | ND | 0.040 | 0.0049 | ND | 0.021 | 0.0026 |
| 1,4-Dichlorobenzene | ND | 0.0020 | 0.00030 | ND | 0.0020 | 0.00030 | ND | 0.040 | 0.0059 | ND | 0.021 | 0.0031 |
| n-Butylbenzene | ND | 0.0020 | 0.00015 | ND | 0.0020 | 0.00015 | ND | 0.040 | 0.0030 | ND | 0.021 | 0.0015 |
| 1,2-Dichlorobenzene | ND | 0.0020 | 0.00025 | ND | 0.0020 | 0.00025 | ND | 0.040 | 0.0050 | ND | 0.021 | 0.0026 |
| 1,2,4-Trichlorobenzene | ND | 0.0040 | 0.00033 | ND | 0.0040 | 0.00033 | ND | 0.081 | 0.0067 | ND | 0.042 | 0.0035 |
| Hexachlorobutadiene | ND | 0.0020 | 0.00012 | ND | 0.0020 | 0.00012 | ND | 0.040 | 0.0024 | ND | 0.021 | 0.0012 |
| t-Butanol | ND | 0.010 | 0.00039 | ND | 0.010 | 0.00039 | ND | 0.20 | 0.0078 | ND | 0.11 | 0.0040 |
| n-Hexane | ND | 0.010 | 0.00027 | ND | 0.010 | 0.00027 | 9.1 | 0.40 | 0.011 | 6.8 d | 0.27 | 0.0074 |
| Isopropyl ether | ND | 0.010 | 0.00022 | ND | 0.010 | 0.00022 | ND | 0.20 | 0.0045 | ND | 0.11 | 0.0023 |
| t-Butyl ethyl ether | ND | 0.010 | 0.00040 | ND | 0.010 | 0.00040 | ND | 0.20 | 0.0081 | ND | 0.11 | 0.0042 |
| 2,2-Dichloropropane | ND | 0.010 | 0.00019 | ND | 0.010 | 0.00019 | ND | 0.20 | 0.0038 | ND | 0.11 | 0.0020 |
| t-Amyl methyl ether | ND | 0.010 | 0.00014 | ND | 0.010 | 0.00014 | ND | 0.20 | 0.0029 | ND | 0.11 | 0.0015 |
| 1,4-Dioxane | ND | 0.010 | 0.00035 | ND | 0.010 | 0.00035 | ND | 0.20 | 0.0071 | ND | 0.11 | 0.0037 |
| Naphthalene | ND | 0.010 | 0.00078 | ND | 0.010 | 0.00078 | ND | 0.20 | 0.016 | ND | 0.11 | 0.0081 |
| 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 = Result obtained from secondary dilution. QC Batch ID: 160915MS2A1

Reviewed/Approved By: Mark Johnson
 Operations Manager

Date 9/15/16

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: 09/08/16
 Matrix: Air
 Reporting Units: ppmv

| EPA Method TO15 | | | | | | |
|-------------------------------|--------------|---------|----------|---------------|---------|----------|
| Lab No.: | METHOD BLANK | | | METHOD BLANK | | |
| Client Sample I.D.: | -- | | | -- | | |
| Date/Time Sampled: | -- | | | -- | | |
| Date/Time Analyzed: | 9/9/16 14:53 | | | 9/15/16 13:11 | | |
| QC Batch No.: | 160909MS2A1 | | | 160915MS2A1 | | |
| Analyst Initials: | VM | | | VM | | |
| 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 | 0.000069 J | 0.00050 | 0.000059 | ND | 0.00050 | 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 | ND | 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 | 0.00030 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 | 0.000052 J | 0.00020 | 0.000019 | ND | 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 | ND | 0.00020 | 0.000016 | 0.000019 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 | 0.000009 | ND | 0.00020 | 0.000009 |
| 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: 09/08/16
 Matrix: Air
 Reporting Units: ppmv

EPA Method TO15

| | | | | |
|---------------------|--------------|---------------|--|--|
| Lab No.: | METHOD BLANK | METHOD BLANK | | |
| Client Sample I.D.: | -- | -- | | |
| Date/Time Sampled: | -- | -- | | |
| Date/Time Analyzed: | 9/9/16 14:53 | 9/15/16 13:11 | | |
| QC Batch No.: | 160909MS2A1 | 160915MS2A1 | | |
| Analyst Initials: | VM | VM | | |
| 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 | 0.0010 | 0.000011 | ND | 0.0010 | 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 | ND | 0.00020 | 0.000026 | ND | 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
 Mark Johnson
 Operations Manager

Date 9/15/16

The cover letter is an integral part of this analytical report



QC Batch No: 160914GC11A2

Matrix: Air

Reporting Units: ppmv

Page 9 of 11

H090808

| | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|
| EPA METHOD TO3 | | | | | | | | | | | |
| LABORATORY CONTROL SAMPLE SUMMARY | | | | | | | | | | | |

| | | | | | | | | | | | |
|--------------------------|------------------------|--------------------|---------------------|------------------------|---------------|------------------------|---------------|------------------|---------------------|----------------------|---------------------|
| Lab No.: | METHOD BLANK | | | LCS | | LCSD | | | | | |
| Date Analyzed: | 9/14/16 15:17 | | | 9/14/16 14:43 | | 9/14/16 15:02 | | | | | |
| Analyst Initials: | AS | | | AS | | AS | | | | | |
| Dilution Factor: | 1.0 | | | 1.0 | | 1.0 | | | | | |
| ANALYTE | Result ppmv | RL ppmv | MDL ppmv | Result ppmv | % Rec. | Result ppmv | % Rec. | RPD % | Low %Rec | High %Rec | Max. RPD |
| TVOC as Hexane | ND | 1.0 | 0.18 | 4.57 | 91 | 4.46 | 89 | 2.4 | 70 | 130 | 25 |
| | | | | | | | | | | | |

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
Mark Johnson
Operations Manager

Date 9/15/16

The cover letter is an integral part of this analytical report



September 27, 2016

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

TEL:

FAX:

Workorder No.: N020999

RE: SFPP - Norwalk Site

Attention: Dan Jablonski

Enclosed are the results for sample(s) received on September 20, 2016 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,

Manny Sibucan-Tor

Puri Romualdo
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in
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EPA ID CA01638

NEVADA | P:702.307.2659 F:702.307.2691
3151 W. Post Rd., Las Vegas, NV 89118
ELAP Cert 2676 | NV Cert NV00922
ORELAP/NELAP Cert 4046

CLIENT: CH2MHill
Project: SFPP - Norwalk Site
Lab Order: N020999

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

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

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

Samples were analyzed within method holding time.

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

Analytical Comments for EPA 8260B:

RPD for Laboratory Control Sample (LCS)/Laboratory Control Sample (LCSD) is outside criteria for Tert-Butanol. Analyte recoveries on both met acceptance criteria.



CLIENT: CH2MHill
Project: SFPP - Norwalk Site
Lab Order: N020999
Contract No:

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Matrix | Collection Date | Date Received | Date Reported |
|---------------|------------------|------------|-----------------------|---------------|---------------|
| N020999-001A | INF-09-20 | Wastewater | 9/20/2016 12:15:00 PM | 9/20/2016 | 9/27/2016 |
| N020999-001B | INF-09-20 | Wastewater | 9/20/2016 12:15:00 PM | 9/20/2016 | 9/27/2016 |



ANALYTICAL RESULTS

Print Date: 27-Sep-16

ASSET Laboratories

CLIENT: CH2MHill
Lab Order: N020999
Project: SFPP - Norwalk Site
Lab ID: N020999-001

Client Sample ID: INF-09-20
Collection Date: 9/20/2016 12:15:00 PM
Matrix: WASTEWATER

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| RunID: CA01638-MS08_160920A | QC Batch: CA16VW008 | | | | PrepDate: | Analyst: RB |
|-----------------------------|---------------------|-------|------|---|-----------|----------------------|
| 1,1,1,2-Tetrachloroethane | ND | 0.066 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |
| 1,1,1-Trichloroethane | ND | 0.068 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.031 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |
| 1,1,2-Trichloroethane | ND | 0.062 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |
| 1,1-Dichloroethane | ND | 0.022 | 0.50 | | ug/L | 1 9/20/2016 10:37 PM |
| 1,1-Dichloroethene | ND | 0.087 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |
| 1,1-Dichloropropene | ND | 0.044 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |
| 1,2,3-Trichlorobenzene | ND | 0.056 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |
| 1,2,3-Trichloropropane | ND | 0.059 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |
| 1,2,4-Trichlorobenzene | ND | 0.060 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |
| 1,2,4-Trimethylbenzene | 0.77 | 0.042 | 1.0 | J | ug/L | 1 9/20/2016 10:37 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.047 | 2.0 | | ug/L | 1 9/20/2016 10:37 PM |
| 1,2-Dibromoethane | ND | 0.057 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |
| 1,2-Dichlorobenzene | ND | 0.040 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |
| 1,2-Dichloroethane | 0.41 | 0.064 | 0.50 | J | ug/L | 1 9/20/2016 10:37 PM |
| 1,2-Dichloropropane | ND | 0.062 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |
| 1,3,5-Trimethylbenzene | 0.63 | 0.015 | 1.0 | J | ug/L | 1 9/20/2016 10:37 PM |
| 1,3-Dichlorobenzene | 0.060 | 0.057 | 1.0 | J | ug/L | 1 9/20/2016 10:37 PM |
| 1,3-Dichloropropane | ND | 0.040 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |
| 1,4-Dichlorobenzene | ND | 0.030 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |
| 2,2-Dichloropropane | ND | 0.026 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |
| 2-Butanone | ND | 0.48 | 10 | | ug/L | 1 9/20/2016 10:37 PM |
| 2-Chlorotoluene | ND | 0.040 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |
| 4-Chlorotoluene | ND | 0.036 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |
| 4-Isopropyltoluene | ND | 0.022 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |
| 4-Methyl-2-pentanone | ND | 0.17 | 10 | | ug/L | 1 9/20/2016 10:37 PM |
| Acetone | 5.8 | 1.1 | 10 | J | ug/L | 1 9/20/2016 10:37 PM |
| Benzene | ND | 0.036 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |
| Bromobenzene | ND | 0.043 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |
| Bromochloromethane | ND | 0.22 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |
| Bromodichloromethane | ND | 0.031 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |
| Bromoform | ND | 0.32 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |
| Bromomethane | 0.44 | 0.32 | 1.0 | J | ug/L | 1 9/20/2016 10:37 PM |
| Carbon disulfide | ND | 0.025 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |
| Carbon tetrachloride | ND | 0.057 | 0.50 | | ug/L | 1 9/20/2016 10:37 PM |
| Chlorobenzene | ND | 0.036 | 1.0 | | ug/L | 1 9/20/2016 10:37 PM |

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



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 EPA ID CA01638

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

"Servina Clients with Passion and Professionalism"

ANALYTICAL RESULTS

Print Date: 27-Sep-16

ASSET Laboratories

CLIENT: CH2MHill
Lab Order: N020999
Project: SFPP - Norwalk Site
Lab ID: N020999-001

Client Sample ID: INF-09-20
Collection Date: 9/20/2016 12:15:00 PM
Matrix: WASTEWATER

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| RunID: CA01638-MS08_160920A | QC Batch: CA16VW008 | | | | PrepDate: | Analyst: RB | |
|-----------------------------|---------------------|-------|--------|---|-----------|-------------|--------------------|
| Chloroethane | ND | 0.099 | 1.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| Chloroform | ND | 0.036 | 1.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| Chloromethane | 0.26 | 0.12 | 1.0 | J | ug/L | 1 | 9/20/2016 10:37 PM |
| cis-1,2-Dichloroethene | ND | 0.051 | 1.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| cis-1,3-Dichloropropene | ND | 0.044 | 1.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| Di-isopropyl ether | 10 | 0.017 | 1.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| Dibromochloromethane | ND | 0.072 | 1.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| Dibromomethane | ND | 0.17 | 1.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| Dichlorodifluoromethane | ND | 0.070 | 1.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| Ethyl tert-butyl ether | ND | 0.039 | 1.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| Ethylbenzene | 0.18 | 0.036 | 1.0 | J | ug/L | 1 | 9/20/2016 10:37 PM |
| Freon-113 | ND | 0.074 | 1.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| Hexachlorobutadiene | ND | 0.11 | 1.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| Isopropylbenzene | 0.060 | 0.034 | 1.0 | J | ug/L | 1 | 9/20/2016 10:37 PM |
| m,p-Xylene | 1.8 | 0.024 | 1.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| Methylene chloride | ND | 0.28 | 2.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| MTBE | 2.2 | 0.062 | 1.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| n-Butylbenzene | ND | 0.031 | 1.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| n-Propylbenzene | 0.090 | 0.018 | 1.0 | J | ug/L | 1 | 9/20/2016 10:37 PM |
| Naphthalene | ND | 0.048 | 1.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| o-Xylene | 0.89 | 0.042 | 1.0 | J | ug/L | 1 | 9/20/2016 10:37 PM |
| sec-Butylbenzene | 0.070 | 0.025 | 1.0 | J | ug/L | 1 | 9/20/2016 10:37 PM |
| Styrene | ND | 0.035 | 1.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| Tert-amyl methyl ether | ND | 0.039 | 1.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| Tert-Butanol | 150 | 0.30 | 5.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| tert-Butylbenzene | ND | 0.030 | 1.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| Tetrachloroethene | ND | 0.16 | 1.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| Toluene | 0.080 | 0.042 | 2.0 | J | ug/L | 1 | 9/20/2016 10:37 PM |
| trans-1,2-Dichloroethene | ND | 0.070 | 1.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| trans-1,3-Dichloropropene | ND | 0.039 | 1.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| Trichloroethene | ND | 0.12 | 1.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| Trichlorofluoromethane | ND | 0.031 | 1.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| Vinyl chloride | ND | 0.095 | 0.50 | | ug/L | 1 | 9/20/2016 10:37 PM |
| Xylenes, Total | 2.6 | 1.5 | 2.0 | | ug/L | 1 | 9/20/2016 10:37 PM |
| Surr: 1,2-Dichloroethane-d4 | 101 | 0 | 72-119 | | %REC | 1 | 9/20/2016 10:37 PM |
| Surr: 4-Bromofluorobenzene | 101 | 0 | 76-119 | | %REC | 1 | 9/20/2016 10:37 PM |

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



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ANALYTICAL RESULTS

Print Date: 27-Sep-16

| | |
|-------------------------------------|---|
| CLIENT: CH2MHill | Client Sample ID: INF-09-20 |
| Lab Order: N020999 | Collection Date: 9/20/2016 12:15:00 PM |
| Project: SFPP - Norwalk Site | Matrix: WASTEWATER |
| Lab ID: N020999-001 | |

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | |
|------------------------------------|----------------------------|-----------|---------------------------|
| RunID: CA01638-MS08_160920A | QC Batch: CA16VW008 | PrepDate: | Analyst: RB |
| Surr: Dibromofluoromethane | 99.3 0 | 85-115 | %REC 1 9/20/2016 10:37 PM |
| Surr: Toluene-d8 | 103 0 | 81-120 | %REC 1 9/20/2016 10:37 PM |

TPH EXTRACTABLE BY GC/FID

EPA 3510C

EPA 8015B

| | | | |
|---------------------------|------------------------|----------------------------|---------------------------|
| RunID: GC3_160922C | QC Batch: 59728 | PrepDate: 9/22/2016 | Analyst: FJ |
| TPH-Diesel (C13-C22) | 230 16 | 26 | ug/L 1 9/22/2016 11:39 PM |
| TPH-Oil (C23-C36) | 130 14 | 26 | ug/L 1 9/22/2016 11:39 PM |
| Surr: Octacosane | 65.3 0 | 26-152 | %REC 1 9/22/2016 11:39 PM |
| Surr: p-Terphenyl | 67.1 0 | 57-132 | %REC 1 9/22/2016 11:39 PM |

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

| | | | |
|---------------------------|---------------------------|-----------|-----------------------------|
| RunID: GC4_160923A | QC Batch: E16VW061 | PrepDate: | Analyst: QBM |
| TPH-Gasoline (C4-C12) | 32 16 | 50 | J ug/L 1 9/23/2016 01:36 PM |
| Surr: Chlorobenzene - d5 | 115 0 | 74-138 | %REC 1 9/23/2016 01:36 PM |

TOTAL TPH

EPA 8015B

| | | | |
|---------------------------|--------------------------|-----------|--------------------|
| RunID: GC3_160922C | QC Batch: R110692 | PrepDate: | Analyst: FJ |
| Total TPH | 390 16 | 50 | ug/L 1 9/22/2016 |

| | | |
|--------------------|--|--|
| 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: N020999
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_FP_SFPP

| Sample ID: MB-59728 | SampType: MBLK | TestCode: 8015_W_FP_ | Units: ug/L | Prep Date: 9/22/2016 | RunNo: 110692 | | | | | | |
|----------------------------|------------------------|------------------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: PBW | Batch ID: 59728 | TestNo: EPA 8015B EPA 3510C | | Analysis Date: 9/22/2016 | SeqNo: 2431487 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| TPH-Diesel (C13-C22) | ND | 25 | | | | | | | | | |
| TPH-Oil (C23-C36) | 24.608 | 25 | | | | | | | | | J |
| Surr: Octacosane | 61.997 | | 80.00 | | 77.5 | 26 | 152 | | | | |
| Surr: p-Terphenyl | 63.450 | | 80.00 | | 79.3 | 57 | 132 | | | | |

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N020999
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFP

| | | | | | | | | | | | |
|------------------------------|---------------------------|--|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: E160923LCS | SampType: LCS | TestCode: 8015GAS_WS Units: ug/L | Prep Date: | RunNo: 110712 | | | | | | | |
| Client ID: LCSW | Batch ID: E16VW061 | TestNo: EPA 8015B | Analysis Date: 9/23/2016 | SeqNo: 2431943 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|--------------------------|-----------|----|-------|---|------|----|-----|--|--|--|--|
| TPH-Gasoline (C4-C12) | 967.000 | 50 | 1000 | 0 | 96.7 | 67 | 136 | | | | |
| Surr: Chlorobenzene - d5 | 52138.000 | | 50000 | | 104 | 74 | 138 | | | | |

| | | | | | | | | | | | |
|------------------------------|---------------------------|--|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: E160923MB2 | SampType: MBLK | TestCode: 8015GAS_WS Units: ug/L | Prep Date: | RunNo: 110712 | | | | | | | |
| Client ID: PBW | Batch ID: E16VW061 | TestNo: EPA 8015B | Analysis Date: 9/23/2016 | SeqNo: 2431945 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|--------------------------|-----------|----|-------|--|-----|----|-----|--|--|--|--|
| TPH-Gasoline (C4-C12) | ND | 50 | | | | | | | | | |
| Surr: Chlorobenzene - d5 | 57927.000 | | 50000 | | 116 | 74 | 138 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|---------------------------|--|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: N020998-001BDUP | SampType: DUP | TestCode: 8015GAS_WS Units: ug/L | Prep Date: | RunNo: 110712 | | | | | | | |
| Client ID: ZZZZZ | Batch ID: E16VW061 | TestNo: EPA 8015B | Analysis Date: 9/23/2016 | SeqNo: 2431947 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|--------------------------|-----------|----|-------|--|-----|----|-----|---|---|---|--|
| TPH-Gasoline (C4-C12) | ND | 50 | | | | | | 0 | 0 | 0 | |
| Surr: Chlorobenzene - d5 | 60344.000 | | 50000 | | 121 | 74 | 138 | | 0 | 0 | |

| | | | | | | | | | | | |
|----------------------------------|---------------------------|--|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: N020998-001BMS | SampType: MS | TestCode: 8015GAS_WS Units: ug/L | Prep Date: | RunNo: 110712 | | | | | | | |
| Client ID: ZZZZZ | Batch ID: E16VW061 | TestNo: EPA 8015B | Analysis Date: 9/23/2016 | SeqNo: 2431949 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|--------------------------|-----------|----|-------|---|------|----|-----|--|--|--|--|
| TPH-Gasoline (C4-C12) | 915.000 | 50 | 1000 | 0 | 91.5 | 67 | 136 | | | | |
| Surr: Chlorobenzene - d5 | 54459.000 | | 50000 | | 109 | 74 | 138 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|---------------------------|--|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: N020998-001BMSD | SampType: MSD | TestCode: 8015GAS_WS Units: ug/L | Prep Date: | RunNo: 110712 | | | | | | | |
| Client ID: ZZZZZ | Batch ID: E16VW061 | TestNo: EPA 8015B | Analysis Date: 9/23/2016 | SeqNo: 2431950 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-----------------------|---------|----|------|---|------|----|-----|-------|------|----|--|
| TPH-Gasoline (C4-C12) | 932.000 | 50 | 1000 | 0 | 93.2 | 67 | 136 | 915.0 | 1.84 | 30 | |
|-----------------------|---------|----|------|---|------|----|-----|-------|------|----|--|

Qualifiers:

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



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CLIENT: CH2MHill
Work Order: N020999
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WSFPP

| Sample ID: N020998-001BMSD | | SampType: MSD | | TestCode: 8015GAS_WS Units: ug/L | | Prep Date: | | RunNo: 110712 | | | |
|-----------------------------------|-----------|---------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: ZZZZZZ | | Batch ID: E16VW061 | | TestNo: EPA 8015B | | Analysis Date: 9/23/2016 | | SeqNo: 2431950 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Surr: Chlorobenzene - d5 | 55652.000 | | 50000 | | 111 | 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: N020999
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

| Sample ID: CA160920LCS | SampType: LCS | TestCode: 8260_WP_SF Units: ug/L | | | | Prep Date: | | | RunNo: 110595 | | |
|-----------------------------|---------------------|----------------------------------|-----------|-------------|------|--------------------------|-----------|-------------|----------------|----------|------|
| Client ID: LCSW | Batch ID: CA16VW008 | TestNo: EPA 8260B | | | | Analysis Date: 9/20/2016 | | | SeqNo: 2429081 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | 20.070 | 1.0 | 20.00 | 0 | 100 | 81 | 129 | | | | |
| 1,1,1-Trichloroethane | 19.910 | 1.0 | 20.00 | 0 | 99.6 | 67 | 132 | | | | |
| 1,1,2,2-Tetrachloroethane | 20.040 | 1.0 | 20.00 | 0 | 100 | 63 | 128 | | | | |
| 1,1,2-Trichloroethane | 20.160 | 1.0 | 20.00 | 0 | 101 | 75 | 125 | | | | |
| 1,1-Dichloroethane | 19.670 | 0.50 | 20.00 | 0 | 98.4 | 69 | 133 | | | | |
| 1,1-Dichloroethene | 19.430 | 1.0 | 20.00 | 0 | 97.2 | 68 | 130 | | | | |
| 1,1-Dichloropropene | 21.440 | 1.0 | 20.00 | 0 | 107 | 73 | 132 | | | | |
| 1,2,3-Trichlorobenzene | 21.710 | 1.0 | 20.00 | 0 | 109 | 67 | 137 | | | | |
| 1,2,3-Trichloropropane | 19.940 | 1.0 | 20.00 | 0 | 99.7 | 73 | 124 | | | | |
| 1,2,4-Trichlorobenzene | 20.340 | 1.0 | 20.00 | 0 | 102 | 66 | 134 | | | | |
| 1,2,4-Trimethylbenzene | 20.670 | 1.0 | 20.00 | 0 | 103 | 74 | 132 | | | | |
| 1,2-Dibromo-3-chloropropane | 20.240 | 2.0 | 20.00 | 0 | 101 | 50 | 132 | | | | |
| 1,2-Dibromoethane | 20.840 | 1.0 | 20.00 | 0 | 104 | 80 | 121 | | | | |
| 1,2-Dichlorobenzene | 21.610 | 1.0 | 20.00 | 0 | 108 | 71 | 122 | | | | |
| 1,2-Dichloroethane | 20.170 | 0.50 | 20.00 | 0 | 101 | 69 | 132 | | | | |
| 1,2-Dichloropropane | 20.250 | 1.0 | 20.00 | 0 | 101 | 75 | 125 | | | | |
| 1,3,5-Trimethylbenzene | 22.300 | 1.0 | 20.00 | 0 | 112 | 74 | 131 | | | | |
| 1,3-Dichlorobenzene | 21.220 | 1.0 | 20.00 | 0 | 106 | 75 | 124 | | | | |
| 1,3-Dichloropropane | 20.580 | 1.0 | 20.00 | 0 | 103 | 73 | 126 | | | | |
| 1,4-Dichlorobenzene | 20.100 | 1.0 | 20.00 | 0 | 101 | 74 | 123 | | | | |
| 2,2-Dichloropropane | 20.380 | 1.0 | 20.00 | 0 | 102 | 69 | 137 | | | | |
| 2-Butanone | 205.180 | 10 | 200.0 | 0 | 103 | 49 | 136 | | | | |
| 2-Chlorotoluene | 21.400 | 1.0 | 20.00 | 0 | 107 | 73 | 126 | | | | |
| 4-Chlorotoluene | 21.540 | 1.0 | 20.00 | 0 | 108 | 74 | 128 | | | | |
| 4-Isopropyltoluene | 20.580 | 1.0 | 20.00 | 0 | 103 | 73 | 130 | | | | |
| 4-Methyl-2-pentanone | 222.640 | 10 | 200.0 | 0 | 111 | 58 | 134 | | | | |
| Acetone | 184.800 | 10 | 200.0 | 0 | 92.4 | 40 | 135 | | | | |
| Benzene | 20.530 | 1.0 | 20.00 | 0 | 103 | 81 | 122 | | | | |
| Bromobenzene | 20.210 | 1.0 | 20.00 | 0 | 101 | 76 | 124 | | | | |
| Bromochloromethane | 19.600 | 1.0 | 20.00 | 0 | 98.0 | 65 | 129 | | | | |

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: N020999
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

| Sample ID: CA160920LCS | SampType: LCS | TestCode: 8260_WP_SF Units: ug/L | | | | Prep Date: | | | RunNo: 110595 | | |
|-------------------------|---------------------|----------------------------------|-----------|-------------|------|--------------------------|-----------|-------------|----------------|----------|------|
| Client ID: LCSW | Batch ID: CA16VW008 | TestNo: EPA 8260B | | | | Analysis Date: 9/20/2016 | | | SeqNo: 2429081 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Bromodichloromethane | 19.760 | 1.0 | 20.00 | 0 | 98.8 | 76 | 121 | | | | |
| Bromoform | 20.610 | 1.0 | 20.00 | 0 | 103 | 69 | 128 | | | | |
| Bromomethane | 20.830 | 1.0 | 20.00 | 0 | 104 | 53 | 141 | | | | |
| Carbon disulfide | 19.270 | 1.0 | 20.00 | 0 | 96.4 | 75 | 125 | | | | |
| Carbon tetrachloride | 20.310 | 0.50 | 20.00 | 0 | 102 | 66 | 138 | | | | |
| Chlorobenzene | 20.260 | 1.0 | 20.00 | 0 | 101 | 81 | 122 | | | | |
| Chloroethane | 24.200 | 1.0 | 20.00 | 0 | 121 | 58 | 133 | | | | |
| Chloroform | 19.290 | 1.0 | 20.00 | 0 | 96.5 | 69 | 128 | | | | |
| Chloromethane | 15.910 | 1.0 | 20.00 | 0 | 79.6 | 56 | 131 | | | | |
| cis-1,2-Dichloroethene | 19.560 | 1.0 | 20.00 | 0 | 97.8 | 72 | 126 | | | | |
| cis-1,3-Dichloropropene | 20.940 | 1.0 | 20.00 | 0 | 105 | 69 | 131 | | | | |
| Di-isopropyl ether | 20.710 | 1.0 | 20.00 | 0 | 104 | 70 | 130 | | | | |
| Dibromochloromethane | 20.530 | 1.0 | 20.00 | 0 | 103 | 66 | 133 | | | | |
| Dibromomethane | 20.200 | 1.0 | 20.00 | 0 | 101 | 76 | 125 | | | | |
| Dichlorodifluoromethane | 18.800 | 1.0 | 20.00 | 0 | 94.0 | 53 | 153 | | | | |
| Ethyl tert-butyl ether | 21.380 | 1.0 | 20.00 | 0 | 107 | 70 | 130 | | | | |
| Ethylbenzene | 20.500 | 1.0 | 20.00 | 0 | 103 | 73 | 127 | | | | |
| Freon-113 | 20.260 | 1.0 | 20.00 | 0 | 101 | 75 | 125 | | | | |
| Hexachlorobutadiene | 20.360 | 1.0 | 20.00 | 0 | 102 | 67 | 131 | | | | |
| Isopropylbenzene | 22.290 | 1.0 | 20.00 | 0 | 111 | 75 | 127 | | | | |
| m,p-Xylene | 43.020 | 1.0 | 40.00 | 0 | 108 | 76 | 128 | | | | |
| Methylene chloride | 18.780 | 2.0 | 20.00 | 0 | 93.9 | 63 | 137 | | | | |
| MTBE | 19.280 | 1.0 | 20.00 | 0 | 96.4 | 65 | 123 | | | | |
| n-Butylbenzene | 20.690 | 1.0 | 20.00 | 0 | 103 | 69 | 137 | | | | |
| n-Propylbenzene | 22.050 | 1.0 | 20.00 | 0 | 110 | 72 | 129 | | | | |
| Naphthalene | 22.710 | 1.0 | 20.00 | 0 | 114 | 54 | 138 | | | | |
| o-Xylene | 21.420 | 1.0 | 20.00 | 0 | 107 | 80 | 121 | | | | |
| sec-Butylbenzene | 22.530 | 1.0 | 20.00 | 0 | 113 | 72 | 127 | | | | |
| Styrene | 20.010 | 1.0 | 20.00 | 0 | 100 | 65 | 134 | | | | |
| Tert-amyl methyl ether | 20.690 | 1.0 | 20.00 | 0 | 103 | 70 | 130 | | | | |

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: N020999
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

| Sample ID: CA160920LCS | | SampType: LCS | | TestCode: 8260_WP_SF | | Units: ug/L | | Prep Date: | | RunNo: 110595 | |
|-----------------------------|---------|---------------------|-----------|----------------------|------|--------------------------|-----------|----------------|------|---------------|------|
| Client ID: LCSW | | Batch ID: CA16VW008 | | TestNo: EPA 8260B | | Analysis Date: 9/20/2016 | | SeqNo: 2429081 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Tert-Butanol | 105.430 | 5.0 | 100.0 | 0 | 105 | 70 | 130 | | | | |
| tert-Butylbenzene | 22.270 | 1.0 | 20.00 | 0 | 111 | 70 | 129 | | | | |
| Tetrachloroethene | 20.750 | 1.0 | 20.00 | 0 | 104 | 66 | 128 | | | | |
| Toluene | 20.070 | 2.0 | 20.00 | 0 | 100 | 77 | 122 | | | | |
| trans-1,2-Dichloroethene | 19.360 | 1.0 | 20.00 | 0 | 96.8 | 63 | 137 | | | | |
| trans-1,3-Dichloropropene | 20.970 | 1.0 | 20.00 | 0 | 105 | 59 | 135 | | | | |
| Trichloroethene | 20.520 | 1.0 | 20.00 | 0 | 103 | 70 | 127 | | | | |
| Trichlorofluoromethane | 19.170 | 1.0 | 20.00 | 0 | 95.9 | 57 | 129 | | | | |
| Vinyl chloride | 19.410 | 0.50 | 20.00 | 0 | 97.0 | 50 | 134 | | | | |
| Xylenes, Total | 64.440 | 2.0 | 60.00 | 0 | 107 | 75 | 125 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 24.200 | | 25.00 | | 96.8 | 72 | 119 | | | | |
| Surr: 4-Bromofluorobenzene | 26.360 | | 25.00 | | 105 | 76 | 119 | | | | |
| Surr: Dibromofluoromethane | 23.940 | | 25.00 | | 95.8 | 85 | 115 | | | | |
| Surr: Toluene-d8 | 25.340 | | 25.00 | | 101 | 81 | 120 | | | | |

| Sample ID: CA160920LCS | | SampType: LCS | | TestCode: 8260_WP_SF | | Units: ug/L | | Prep Date: | | RunNo: 110595 | |
|---------------------------|--------|---------------------|-----------|----------------------|------|--------------------------|-----------|----------------|--------|---------------|------|
| Client ID: LCSS02 | | Batch ID: CA16VW008 | | TestNo: EPA 8260B | | Analysis Date: 9/20/2016 | | SeqNo: 2429082 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | 20.010 | 1.0 | 20.00 | 0 | 100 | 81 | 129 | 20.07 | 0.299 | 20 | |
| 1,1,1-Trichloroethane | 19.640 | 1.0 | 20.00 | 0 | 98.2 | 67 | 132 | 19.91 | 1.37 | 20 | |
| 1,1,2,2-Tetrachloroethane | 20.230 | 1.0 | 20.00 | 0 | 101 | 63 | 128 | 20.04 | 0.944 | 20 | |
| 1,1,2-Trichloroethane | 19.790 | 1.0 | 20.00 | 0 | 99.0 | 75 | 125 | 20.16 | 1.85 | 20 | |
| 1,1-Dichloroethane | 19.720 | 0.50 | 20.00 | 0 | 98.6 | 69 | 133 | 19.67 | 0.254 | 20 | |
| 1,1-Dichloroethene | 19.030 | 1.0 | 20.00 | 0 | 95.2 | 68 | 130 | 19.43 | 2.08 | 20 | |
| 1,1-Dichloropropene | 20.930 | 1.0 | 20.00 | 0 | 105 | 73 | 132 | 21.44 | 2.41 | 20 | |
| 1,2,3-Trichlorobenzene | 21.270 | 1.0 | 20.00 | 0 | 106 | 67 | 137 | 21.71 | 2.05 | 20 | |
| 1,2,3-Trichloropropane | 20.150 | 1.0 | 20.00 | 0 | 101 | 73 | 124 | 19.94 | 1.05 | 20 | |
| 1,2,4-Trichlorobenzene | 20.350 | 1.0 | 20.00 | 0 | 102 | 66 | 134 | 20.34 | 0.0492 | 20 | |
| 1,2,4-Trimethylbenzene | 20.470 | 1.0 | 20.00 | 0 | 102 | 74 | 132 | 20.67 | 0.972 | 20 | |

Qualifiers:

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

CLIENT: CH2MHill
 Work Order: N020999
 Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

| Sample ID: CA160920LCSD | | SampType: LCSD | | TestCode: 8260_WP_SF Units: ug/L | | | Prep Date: | | | RunNo: 110595 | | |
|-----------------------------|---------|---------------------|-----------|----------------------------------|------|----------|--------------------------|-------------|-------|----------------|------|--|
| Client ID: LCSS02 | | Batch ID: CA16VW008 | | TestNo: EPA 8260B | | | Analysis Date: 9/20/2016 | | | SeqNo: 2429082 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| 1,2-Dibromo-3-chloropropane | 20.150 | 2.0 | 20.00 | 0 | 101 | 50 | 132 | 20.24 | 0.446 | 20 | | |
| 1,2-Dibromoethane | 20.430 | 1.0 | 20.00 | 0 | 102 | 80 | 121 | 20.84 | 1.99 | 20 | | |
| 1,2-Dichlorobenzene | 21.690 | 1.0 | 20.00 | 0 | 108 | 71 | 122 | 21.61 | 0.370 | 20 | | |
| 1,2-Dichloroethane | 19.950 | 0.50 | 20.00 | 0 | 99.8 | 69 | 132 | 20.17 | 1.10 | 20 | | |
| 1,2-Dichloropropane | 20.180 | 1.0 | 20.00 | 0 | 101 | 75 | 125 | 20.25 | 0.346 | 20 | | |
| 1,3,5-Trimethylbenzene | 21.920 | 1.0 | 20.00 | 0 | 110 | 74 | 131 | 22.30 | 1.72 | 20 | | |
| 1,3-Dichlorobenzene | 20.970 | 1.0 | 20.00 | 0 | 105 | 75 | 124 | 21.22 | 1.19 | 20 | | |
| 1,3-Dichloropropane | 20.630 | 1.0 | 20.00 | 0 | 103 | 73 | 126 | 20.58 | 0.243 | 20 | | |
| 1,4-Dichlorobenzene | 19.230 | 1.0 | 20.00 | 0 | 96.2 | 74 | 123 | 20.10 | 4.42 | 20 | | |
| 2,2-Dichloropropane | 19.410 | 1.0 | 20.00 | 0 | 97.0 | 69 | 137 | 20.38 | 4.88 | 20 | | |
| 2-Butanone | 214.560 | 10 | 200.0 | 0 | 107 | 49 | 136 | 205.2 | 4.47 | 20 | | |
| 2-Chlorotoluene | 21.040 | 1.0 | 20.00 | 0 | 105 | 73 | 126 | 21.40 | 1.70 | 20 | | |
| 4-Chlorotoluene | 21.310 | 1.0 | 20.00 | 0 | 107 | 74 | 128 | 21.54 | 1.07 | 20 | | |
| 4-Isopropyltoluene | 20.200 | 1.0 | 20.00 | 0 | 101 | 73 | 130 | 20.58 | 1.86 | 20 | | |
| 4-Methyl-2-pentanone | 222.270 | 10 | 200.0 | 0 | 111 | 58 | 134 | 222.6 | 0.166 | 20 | | |
| Acetone | 200.740 | 10 | 200.0 | 0 | 100 | 40 | 135 | 184.8 | 8.27 | 20 | | |
| Benzene | 20.240 | 1.0 | 20.00 | 0 | 101 | 81 | 122 | 20.53 | 1.42 | 20 | | |
| Bromobenzene | 20.240 | 1.0 | 20.00 | 0 | 101 | 76 | 124 | 20.21 | 0.148 | 20 | | |
| Bromochloromethane | 19.460 | 1.0 | 20.00 | 0 | 97.3 | 65 | 129 | 19.60 | 0.717 | 20 | | |
| Bromodichloromethane | 19.570 | 1.0 | 20.00 | 0 | 97.9 | 76 | 121 | 19.76 | 0.966 | 20 | | |
| Bromoform | 20.360 | 1.0 | 20.00 | 0 | 102 | 69 | 128 | 20.61 | 1.22 | 20 | | |
| Bromomethane | 19.480 | 1.0 | 20.00 | 0 | 97.4 | 53 | 141 | 20.83 | 6.70 | 20 | | |
| Carbon disulfide | 19.220 | 1.0 | 20.00 | 0 | 96.1 | 75 | 125 | 19.27 | 0.260 | 20 | | |
| Carbon tetrachloride | 20.010 | 0.50 | 20.00 | 0 | 100 | 66 | 138 | 20.31 | 1.49 | 20 | | |
| Chlorobenzene | 20.180 | 1.0 | 20.00 | 0 | 101 | 81 | 122 | 20.26 | 0.396 | 20 | | |
| Chloroethane | 23.860 | 1.0 | 20.00 | 0 | 119 | 58 | 133 | 24.20 | 1.41 | 20 | | |
| Chloroform | 19.330 | 1.0 | 20.00 | 0 | 96.7 | 69 | 128 | 19.29 | 0.207 | 20 | | |
| Chloromethane | 17.230 | 1.0 | 20.00 | 0 | 86.2 | 56 | 131 | 15.91 | 7.97 | 20 | | |
| cis-1,2-Dichloroethene | 19.650 | 1.0 | 20.00 | 0 | 98.2 | 72 | 126 | 19.56 | 0.459 | 20 | | |
| cis-1,3-Dichloropropene | 20.580 | 1.0 | 20.00 | 0 | 103 | 69 | 131 | 20.94 | 1.73 | 20 | | |

Qualifiers:

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



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 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert NVO0922
 ORELAP/NELAP Cert 4046

CLIENT: CH2MHill
Work Order: N020999
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

| Sample ID: CA160920LCSD | SampType: LCSD | TestCode: 8260_WP_SF | Units: ug/L | Prep Date: | RunNo: 110595 | | | | | | |
|-----------------------------|---------------------|----------------------|-------------|--------------------------|----------------|----------|-----------|-------------|-------|----------|------|
| Client ID: LCSS02 | Batch ID: CA16VW008 | TestNo: EPA 8260B | | Analysis Date: 9/20/2016 | SeqNo: 2429082 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Di-isopropyl ether | 20.760 | 1.0 | 20.00 | 0 | 104 | 70 | 130 | 20.71 | 0.241 | 20 | |
| Dibromochloromethane | 20.280 | 1.0 | 20.00 | 0 | 101 | 66 | 133 | 20.53 | 1.23 | 20 | |
| Dibromomethane | 20.300 | 1.0 | 20.00 | 0 | 102 | 76 | 125 | 20.20 | 0.494 | 20 | |
| Dichlorodifluoromethane | 18.470 | 1.0 | 20.00 | 0 | 92.4 | 53 | 153 | 18.80 | 1.77 | 20 | |
| Ethyl tert-butyl ether | 21.160 | 1.0 | 20.00 | 0 | 106 | 70 | 130 | 21.38 | 1.03 | 20 | |
| Ethylbenzene | 20.310 | 1.0 | 20.00 | 0 | 102 | 73 | 127 | 20.50 | 0.931 | 20 | |
| Freon-113 | 19.990 | 1.0 | 20.00 | 0 | 100 | 75 | 125 | 20.26 | 1.34 | 20 | |
| Hexachlorobutadiene | 20.120 | 1.0 | 20.00 | 0 | 101 | 67 | 131 | 20.36 | 1.19 | 20 | |
| Isopropylbenzene | 22.160 | 1.0 | 20.00 | 0 | 111 | 75 | 127 | 22.29 | 0.585 | 20 | |
| m,p-Xylene | 42.060 | 1.0 | 40.00 | 0 | 105 | 76 | 128 | 43.02 | 2.26 | 20 | |
| Methylene chloride | 18.880 | 2.0 | 20.00 | 0 | 94.4 | 63 | 137 | 18.78 | 0.531 | 20 | |
| MTBE | 19.220 | 1.0 | 20.00 | 0 | 96.1 | 65 | 123 | 19.28 | 0.312 | 20 | |
| n-Butylbenzene | 20.180 | 1.0 | 20.00 | 0 | 101 | 69 | 137 | 20.69 | 2.50 | 20 | |
| n-Propylbenzene | 21.630 | 1.0 | 20.00 | 0 | 108 | 72 | 129 | 22.05 | 1.92 | 20 | |
| Naphthalene | 21.450 | 1.0 | 20.00 | 0 | 107 | 54 | 138 | 22.71 | 5.71 | 20 | |
| o-Xylene | 20.750 | 1.0 | 20.00 | 0 | 104 | 80 | 121 | 21.42 | 3.18 | 20 | |
| sec-Butylbenzene | 22.150 | 1.0 | 20.00 | 0 | 111 | 72 | 127 | 22.53 | 1.70 | 20 | |
| Styrene | 19.680 | 1.0 | 20.00 | 0 | 98.4 | 65 | 134 | 20.01 | 1.66 | 20 | |
| Tert-amyl methyl ether | 20.590 | 1.0 | 20.00 | 0 | 103 | 70 | 130 | 20.69 | 0.484 | 20 | |
| Tert-Butanol | 79.400 | 5.0 | 100.0 | 0 | 79.4 | 70 | 130 | 105.4 | 28.2 | 20 | R |
| tert-Butylbenzene | 22.140 | 1.0 | 20.00 | 0 | 111 | 70 | 129 | 22.27 | 0.585 | 20 | |
| Tetrachloroethene | 20.180 | 1.0 | 20.00 | 0 | 101 | 66 | 128 | 20.75 | 2.79 | 20 | |
| Toluene | 19.790 | 2.0 | 20.00 | 0 | 99.0 | 77 | 122 | 20.07 | 1.40 | 20 | |
| trans-1,2-Dichloroethene | 18.940 | 1.0 | 20.00 | 0 | 94.7 | 63 | 137 | 19.36 | 2.19 | 20 | |
| trans-1,3-Dichloropropene | 20.670 | 1.0 | 20.00 | 0 | 103 | 59 | 135 | 20.97 | 1.44 | 20 | |
| Trichloroethene | 19.900 | 1.0 | 20.00 | 0 | 99.5 | 70 | 127 | 20.52 | 3.07 | 20 | |
| Trichlorofluoromethane | 18.630 | 1.0 | 20.00 | 0 | 93.2 | 57 | 129 | 19.17 | 2.86 | 20 | |
| Vinyl chloride | 19.120 | 0.50 | 20.00 | 0 | 95.6 | 50 | 134 | 19.41 | 1.51 | 20 | |
| Xylenes, Total | 62.810 | 2.0 | 60.00 | 0 | 105 | 75 | 125 | 64.44 | 2.56 | 20 | |
| Surr: 1,2-Dichloroethane-d4 | 24.250 | | 25.00 | | 97.0 | 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: N020999
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

| Sample ID: CA160920LCSD | SampType: LCSD | TestCode: 8260_WP_SF | Units: ug/L | Prep Date: | RunNo: 110595 | | | | | | |
|--------------------------------|----------------------------|-----------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSS02 | Batch ID: CA16VW008 | TestNo: EPA 8260B | Analysis Date: 9/20/2016 | SeqNo: 2429082 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 26.510 | | 25.00 | | 106 | 76 | 119 | | 0 | | |
| Surr: Dibromofluoromethane | 23.920 | | 25.00 | | 95.7 | 85 | 115 | | 0 | | |
| Surr: Toluene-d8 | 25.470 | | 25.00 | | 102 | 81 | 120 | | 0 | | |

| Sample ID: CA160920MB3 | SampType: MBLK | TestCode: 8260_WP_SF | Units: ug/L | Prep Date: | RunNo: 110595 | | | | | | |
|-------------------------------|----------------------------|-----------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: PBW | Batch ID: CA16VW008 | TestNo: EPA 8260B | Analysis Date: 9/20/2016 | SeqNo: 2429085 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1.0 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 1.0 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 1.0 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 1.0 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | | | | | | | | | |
| 1,2-Dibromoethane | ND | 1.0 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | | | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 1.0 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | 0.060 | 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:

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



ASSET LABORATORIES
ANALYTICAL SERVICES FOR THE ENVIRONMENTAL INDUSTRY

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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N020999
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

| Sample ID: CA160920MB3 | SampType: MBLK | TestCode: 8260_WP_SF | Units: ug/L | Prep Date: | RunNo: 110595 | | | | | | |
|-------------------------|---------------------|----------------------|-------------|--------------------------|----------------|----------|-----------|-------------|------|----------|------|
| Client ID: PBW | Batch ID: CA16VW008 | TestNo: EPA 8260B | | Analysis Date: 9/20/2016 | SeqNo: 2429085 | | | | | | |
| 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 | 0.160 | 1.0 | | | | | | | | | J |
| 4-Methyl-2-pentanone | 0.200 | 10 | | | | | | | | | J |
| Acetone | 2.440 | 10 | | | | | | | | | J |
| 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 | 0.130 | 1.0 | | | | | | | | | J |
| Carbon tetrachloride | ND | 0.50 | | | | | | | | | |
| Chlorobenzene | ND | 1.0 | | | | | | | | | |
| Chloroethane | ND | 1.0 | | | | | | | | | |
| Chloroform | ND | 1.0 | | | | | | | | | |
| Chloromethane | 0.130 | 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 | 0.170 | 1.0 | | | | | | | | | J |
| Isopropylbenzene | 0.040 | 1.0 | | | | | | | | | J |
| m,p-Xylene | 0.150 | 1.0 | | | | | | | | | J |
| Methylene chloride | ND | 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 |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

CLIENT: CH2MHill
Work Order: N020999
Project: SFPP - Norwalk Site

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_SFPP

| Sample ID: CA160920MB3 | SampType: MBLK | TestCode: 8260_WP_SF | Units: ug/L | Prep Date: | RunNo: 110595 | | | | | | |
|-----------------------------|---------------------|----------------------|-------------|--------------------------|----------------|----------|-----------|-------------|------|----------|------|
| Client ID: PBW | Batch ID: CA16VW008 | TestNo: EPA 8260B | | Analysis Date: 9/20/2016 | SeqNo: 2429085 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| MTBE | ND | 1.0 | | | | | | | | | |
| n-Butylbenzene | ND | 1.0 | | | | | | | | | |
| n-Propylbenzene | 0.070 | 1.0 | | | | | | | | | J |
| Naphthalene | ND | 1.0 | | | | | | | | | |
| o-Xylene | 0.090 | 1.0 | | | | | | | | | J |
| sec-Butylbenzene | 0.080 | 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 | 0.110 | 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 | 25.420 | | 25.00 | | 102 | 72 | 119 | | | | |
| Surr: 4-Bromofluorobenzene | 24.990 | | 25.00 | | 100 | 76 | 119 | | | | |
| Surr: Dibromofluoromethane | 24.440 | | 25.00 | | 97.8 | 85 | 115 | | | | |
| Surr: Toluene-d8 | 25.380 | | 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 |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits |
| S Spike/Surrogate outside of limits due to matrix interference | DO Surrogate Diluted Out | Calculations are based on raw values |



ASSET LABORATORIES
ANALYTICAL SERVICES FOR ENVIRONMENTAL SCIENCE

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

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

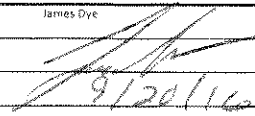
"Serving Clients with Passion and Professionalism"

N020999

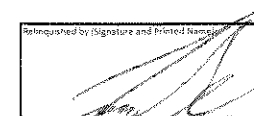
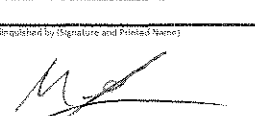
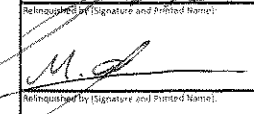
Advanced Technology Laboratories
 3151 W. Post Road
 Las Vegas, NV 89118
 Tel: 702-307-2659 Fax: 702-307-2691
 Marlon Cartin (marlon@atl-labs.com)

CHAIN OF CUSTODY RECORD

DATE: 9/20/16
 PAGE: 1 of 1

| | | | | | | | |
|--|--|---|--|---|--|--|--|
| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | | Section D Sampler Information: | |
| Company: Kinder Morgan Energy Partners Attention: Steve Defibaugh | | Report To: Dan Jablonski | | Attention: Steve Defibaugh - Ref. AFE# 81195 | | Sampler Name: James Dye | |
| Address: 1100 Town & Country Road Orange, CA 92868 | | Copy To: Steve Defibaugh | | Company: Kinder Morgan Energy Partners | | Sampler Signature:  | |
| Email To: steve_defibaugh@kindermorgan.com daniel.jablonski@ch2m.com | | Purchase Order No.: | | Address: 1100 Town & Country Road Orange, CA 92868 | | Sample Date: 9/20/16 | |
| Phone: 714-560-4802 Fax: 714-560-4801 | | Project Name: SFPP Norwalk | | ATL Project Manager: Marlon Cartin | | | |

| ITEM # | SAMPLE ID | LOCATION/ DESCRIPTION | MATRIX | SAMPLE TYPE (G=GRAB C=COMP) | CONTAINER TYPE | | TOTAL # OF CONTAINERS | SAMPLE TEMPERATURE (°F) | Analysis Test | Full VOCs + Oxygenates List (B260B) | TPH-g, TPH-d, and TPH-oil (B015B) | V | A | H | 40 | 1000 | Comments |
|--------|-----------|-----------------------|--------|-----------------------------|-----------------|--------------|-----------------------|-------------------------|---------------|-------------------------------------|-----------------------------------|---|---|---|----|------|----------------------------|
| | | | | | # OF CONTAINERS | PRESERVATIVE | | | | | | | | | | | |
| 1 | INF-08-20 | INFLUENT | WW | G | 9/20/16 | 1245 | 8 | | | | | X | X | | | | 4°C 2.2°C @ Las Vegas Labs |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |

| | | | |
|---|--|--|----------------------|
| Relinquished by (Signature and Printed Name):  Date / Time: 9/20/16 1245 | Relinquished by (Signature and Printed Name):  Date / Time: 9/20/16 1515 | Turn Around Time (TAT): <input type="checkbox"/> A = Same Day <input type="checkbox"/> B = 24 Hours <input type="checkbox"/> C = 48 Hours <input type="checkbox"/> D = 72 Hours <input checked="" type="checkbox"/> E = 5 Workdays <input type="checkbox"/> F = 10 Workdays TAT Starts at 8 AM the following day if samples received after 3:00 PM. | Special Instruction: |
| Relinquished by (Signature and Printed Name):  Date / Time: 9/20/16 1542 | Relinquished by (Signature and Printed Name): Yoandra Rodriguez Date / Time: 9/21/16 7:43 AM | | |

| | | |
|--|---|--|
| Matrix: | Preservatives: | Container Type: |
| W = Water O = Oil P = Product S = Soil Others/Specify: | WW = Wastewater H = HCl N = HNO3 O = NaOH Others/Specify: | T = Tube A = Amber Glass M = Metal V = VOA B = Tedlar P = Plastic J = Jar C = Can |

ASSET Laboratories

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

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

Cooler Received/Opened On: 9/20/2016 Workorder: N020999
 Rep sample Temp (Deg C): 4.0/2.2 IR Gun ID: 2
 Temp Blank: Yes No
 Carrier name: Golden State Overnight
 Last 4 digits of Tracking No.: 3392 Packing Material Used: Bubble Wrap
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

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

Comments:

Checklist Completed By: YR RL 9/21/2016

Reviewed By: [Signature] 9/21/2016

ASSET Laboratories

WORK ORDER Summary

21-Sep-16

WorkOrder: N020999

Client ID: CH2HI03

Project: SFPP - Norwalk Site

QC Level: RTNE

Date Received: 9/20/2016

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 |
|--------------|------------------|-----------------------|-----------|------------|-----------|---|--------------------------|--------------------------|--------------------------|---------|
| N020999-001A | INF-09-20 | 9/20/2016 12:15:00 PM | 9/27/2016 | Wastewater | EPA 8015B | GASOLINE RANGE ORGANICS BY GC/FID | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | VW |
| | | | 9/27/2016 | | EPA 8260B | VOLATILE ORGANIC COMPOUNDS BY GC/MS | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | VW |
| N020999-001B | | | 9/27/2016 | | EPA 3510C | SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW |
| | | | 9/27/2016 | | EPA 8015B | TPH EXTRACTABLE BY GC/FID | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW |
| | | | 9/27/2016 | | EPA 8015B | Total TPH | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW |
| N020999-002A | FOLDER | | 9/27/2016 | | Folder | Folder | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | LAB |



800-322-5555 www.gso.com

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

Tracking #: 533353392

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



56747913

Print Date: 9/20/2016 4:16 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.

2.2⁰
JR #2