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REMEDIATION STATUS REPORT - FOURTH QUARTER 2019
DEFENSE FUEL SUPPORT POINT NORWALK
15306 Norwalk Boulevard
Norwalk, California

SGI Project No. 091-NDLA-018
DLA Energy Contract No. SPO600-14-D-5410, Task Order 0018

Prepared For:



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LIST OF ACRONYMS

AST	above ground storage tank
BTEX	Benzene, toluene, ethylbenzene, and total xylenes
COD	Chemical Oxygen Demand
°F	degrees Fahrenheit
DFSP	Defense Fuel Support Point
DLA Energy	Defense Logistics Agency Installation Management for Energy (DM-FEE) Environmental Division Restoration Branch
DTP	Depth to product
DTW	Depth to groundwater
ELAP	Environmental Laboratory Accreditation Program
EPA	United States Environmental Protection Agency
GAC	Granular activated carbon
GRO	Gasoline range organic
GWE	Groundwater extraction
GWETS	Groundwater extraction and treatment system
JP-5	Jet propellant number 5
LARWQCB	California Regional Water Quality Control Board, Los Angeles Region
LNAPL	Light non-aqueous phase liquid
µg/L	micrograms per liter
MTBE	Methyl tertiary-butyl ether
ND	Non-detect
NFA	No Further Action
NPDES	National Pollutant Discharge Elimination System
OM&M	Operations, maintenance, and monitoring
OVA	Organic vapor analyzer
ppm	Parts per million
PID	Photoionization detector
SCAQMD	South Coast Air Quality Management District
SFPP	Santa Fe Pacific Pipelines Partners, L.P.
SGI	The Source Group, Inc.
SVE	Soil vapor extraction
SS	Suspended Solids
TBA	Tertiary-butyl alcohol
TOC	Top of casing

TPHd	Total petroleum hydrocarbons quantified as diesel
TPHg	Total petroleum hydrocarbons quantified as gasoline
VES	Vapor extraction system
VOCs	Volatile organic Compounds

1.0 INTRODUCTION

On behalf of our client, Defense Logistics Agency Installation Management for Energy (DM-FEE) Environmental Division Restoration Branch (DLA Energy), The Source Group, Inc. (SGI) presents this report to summarize remediation system operations during this reporting period (Fourth Quarter 2019 - October 1, 2019 through December 31, 2019) for the Defense Fuel Support Point (DFSP) Norwalk facility, located at 15306 Norwalk Boulevard, Norwalk, California (Site; Figures 1 and 2).

This report is submitted pursuant to a request from the California Regional Water Quality Control Board, Los Angeles Region (LARWQCB) in a letter dated May 3, 2013.

1.1 Contaminants of Concern

Soil and groundwater at the areas of concern are impacted with hydrocarbons consisting primarily of benzene, toluene, ethylbenzene, and total xylenes (collectively, BTEX), jet propellant number 5 (JP-5), diesel, methyl tertiary-butyl ether (MTBE), and tertiary-butyl alcohol (TBA). MTBE and TBA are interpreted to have resulted from Santa Fe Pacific Pipelines Partners, L.P. (SFPP) operations, and remediation of these impacts is being addressed by SFPP.

The impacted areas consist of the northwestern corner of the Site, the north-central portion of the former tank farm (central area), the northeastern property boundary (eastern area), off-site Holifield Park area, and the southern former water tank and truck fueling areas (southern area).

1.2 Remediation Technologies

Various remediation technologies have been implemented at the Site to treat the hydrocarbon impacts in soil and groundwater. The purposes of these technologies are to reduce hydrocarbon concentrations to cleanup goals, prevent off-site migration, contain contaminant mass, and ultimately achieve Site closure within a reasonable timeframe.

Remediation technologies utilized at the Site include soil vapor extraction (SVE), groundwater extraction (GWE), biosparging, and light non-aqueous phase liquid (LNAPL) removal via manual bailing, vacuum truck, passive skimming, active pumping using a portable skimming pump and absorbent socks. The aboveground treatment of contaminated vadose zone soils excavated at the Site was conducted from April 2015 until March 2017 (see SGI's January 2018 *Shallow Soil Closure Report*). An automated product recovery system was brought online during August 2016 and SVE and/or biosparge wells were installed during November 2016, June/July 2017 and November/December 2017 as part of ongoing remedial expansion activities.

A summary of Site remediation wells, including well identification, well construction information, well function, and operational status, is presented in Table 1. The soil and groundwater remediation system layout (well and piping locations) is presented in Figure 2.

1.2.1 Groundwater Extraction and Treatment System

The GWE well network for hydrocarbon extraction of dissolved-phase subsurface impacts historically included wells installed in the northwest corner of the Site (GW-2 and GW-13), the central area (GW-14R), and the eastern area (GW-15, GW-16, and GMW-58).

The groundwater extraction and treatment system (GWETS) utilizes electric pumps in each of the GWE wells to extract groundwater into a shared surge tank. Groundwater is then pumped from the surge tank through three particulate-removal bag filter vessels in series (BF1, BF2, and BF3), two MYCELX vessels in series (MX-7 and MX-21) for the removal of residual free product and/or oils/grease, and three granular activated carbon (GAC) vessels in series (2,000-pound GAC-1, 2,000-pound GAC-2, and 1,500-pound GAC-3). The groundwater is then pumped through various media canisters and drums for metals treatment/removal prior to being discharged to the storm drain.

Operation of the GWETS was conducted in accordance with CI No. 7585 and South Coast Air Quality Management District (SCAQMD) Permit to Operate G6962, A/N 501180. Discharge of the treated groundwater was conducted in accordance with National Pollutant Discharge Elimination System (NPDES) permit CAG994004 until February 27, 2019 when the system was shut down pending approval of the sewer discharge permit application. The GWETS was restarted on 10/10/19 and is operating in accordance with Sanitation Districts of Los Angeles County Industrial Wastewater Discharge Permit number 22453. Active GWE wells are identified in Section 3.1 and Tables 2A through 2C.

1.2.2 Soil Vapor Extraction Systems

As illustrated on Figure 2, the SVE well network for hydrocarbon extraction from vadose zone subsurface impacts historically included wells installed in the following areas: former above ground storage tank (AST) basin 80001 (VEW-23), former AST basins 80006 and 80007 (VEW-22, HW-1 and HW-3), former AST basin 80008 (HW-5, and HW-7), former AST basin 55004 (VEW-28, VEW-29, and VEW-30), northeastern boundary area (VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, and VEW-37), and southern former truck fueling and water tank area (VEW-31, VEW-38, VEW-39, VEW-40, VW-07, VW-09, VW-10, VW-11, VW-12, VW-13, VW-14, VW-15, and VW-16).

Several new SVE wells were installed within the eastern area and southern area of the Site during November 2016 and June/July 2017, as summarized in SGI's June 30, 2017 *Remediation Well Installation Update Report*. Wells VEW-38, VEW-39 and VEW-40 were brought online to the carbon vapor extraction system (VES) in June 2017, and wells RW-1, RW-2, RW-7, RW-9, RW-12, RW-13, RW-18, RW-20 through RW-24, RW-26, and RW-28 through RW-33 were brought online in August 2017. The new SVE wells were brought online following the completion of tie-in work to the carbon VES. Most of these wells were subsequently tied into the temporary thermal oxidizer VES during late December 2017/early January 2018 prior to the January 8, 2018 startup of this system, with the carbon VES being utilized to exclusively extract from three horizontal wells (HW-1, HW-5 and HW-7) that span through the entire former tank farm since 2018. Additionally, tie-in of wells RW-2 through RW-8, RW-10 through RW-12, and RW-14 through RW-17 to the temporary thermal oxidizer VES was completed on February 14, 2018, and wells RW-34 through RW-50 were tied in and brought

online on June 27, 2018. The permanent full-scale thermal oxidizer VES (hereafter referred to as thermal oxidizer VES) was installed and tested and system startup began on March 13, 2019.

Each VES utilizes a blower to remove soil vapors from the subsurface. The extracted vapors are conveyed through a knockout tank that separates entrained moisture from the soil vapors. For both systems, accumulated moisture within the knockout tank is treated by the GWETS, as described in the preceding section. Following is a brief summary of each VES.

1.2.2.1 Carbon Vapor Extraction System

Soil vapors from the carbon VES knockout tank are treated via four GAC vessels where volatile organic compounds (VOCs) are adsorbed onto the GAC within the vessels. The primary and secondary GAC vessels, each 5,000 pounds, are installed in series with each other, and are followed by a pair of tertiary vessels, each 2,000 pounds, installed in parallel.

Operation of the carbon VES is conducted in accordance with SCAQMD Permit to Construct A/N 568793, formerly Permit to Operate G12863, A/N 518989. The current Permit to Construct was issued on March 6, 2015 to additionally allow for aboveground soil treatment activities at the Site which were completed in March 2017 (see Section 1.2.5 for further details). Active SVE wells associated with the system are identified in Section 3.2 and Table 8.

1.2.2.2 Thermal Oxidizer Vapor Extraction System

A temporary thermal oxidizer VES operated from January 8, 2018. The temporary thermal oxidizer VES was intended to treat vapors associated with the relatively high concentration SVE wells that were originally tied into the carbon VES, as discussed in SGI's May 15, 2018 *Remediation Status Report - First Quarter 2018*. These high concentration SVE wells were connected to the carbon VES in late June and early August 2017. Additional wells in the Southern Area of the Site (RW-34 through RW-50) were brought online to the temporary thermal oxidizer VES in June 2018. The system was shut down on January 8, 2019 to comply with the SCAQMD Various Locations Permit F97121 which limited the operational period to one calendar year.

The permanent full-scale thermal oxidizer VES was installed and tested. The gas meter was installed in mid-February 2019, and the natural gas line was activated on February 26, 2019. The system manufacturer's service technicians (Baker Furnace) conducted the initial system equipment testing on March 4, 2019 and system startup began on March 13, 2019.

Soil vapors from the thermal oxidizer VES knockout tank are heated to a minimum temperature of 1,400 °F prior to atmospheric discharge from a 25-foot tall stack. Operation of the thermal oxidizer VES is conducted in accordance with SCAQMD Permit to Construct/Operate G52288, A/N 602424. The SCAQMD Rule 1166 notification form for SVE system startup was provided to SCAQMD on March 13, 2019. Active SVE wells associated with the thermal oxidizer systems are identified in Section 3.2 and Tables 4A through 4C.

1.2.3 Biosparge System

The biosparge wells for hydrocarbon removal from dissolved-phase subsurface impacts are located in areas throughout the Site. The biosparge system was off-line pending completion of soil cleanup activities per SGI's January 2018 *Shallow Soil Closure Report*. System recommissioning work was completed during Fourth quarter 2018 in accordance with SGI's June 30, 2017 *Remediation Well Installation Update Report*, and July 11, 2018 *Well Installation Completion Report*. The recommissioned biosparge system includes 109 biosparge wells (Table 1) connected to the system via 11 total air supply trunklines. Injection air is supplied to the wells by a rotary claw compressor and cooled by a heat exchanger before delivery to the wells via the active air supply trunkline. The trunklines are connected to a common manifold and injection air is controlled by solenoids on each trunkline. The injection cycle duration and frequency are controlled by timers and total injection duration is recorded by hour meters for each trunkline. Biosparge system shakedown testing was conducted in late December 2018, and system operation resumed in early 2019.

1.2.4 LNAPL Removal

LNAPL removal at the Site is accomplished via both physical and automated processes. Select wells are gauged for floating product approximately once every two weeks, and product removal is conducted via manually bailing, active pumping using a portable product skimmer and/or by utilizing absorbent socks installed based on the measured LNAPL thickness in each target well.

An automated product recovery system connected to wells located in the north-central portion of the Site has also operated since August 2016. LNAPL removal wells are identified in Sections 3.3 and 3.4 and Tables 5A through 5T. A map showing the April 2019 extent of measurable LNAPL is presented in Figure 3.

1.2.5 Aboveground Soil Treatment

Per SGI's May 1, 2015 *Remediation Status Report - First Quarter 2015*, the excavation of impacted vadose zone soils at the Site began during January 2015. Treatment was achieved via the construction of soil biopiles that were connected to the carbon VES for SCAQMD permit compliance purposes. Biopile operations, maintenance and monitoring (OM&M) continued until March 20, 2017 after a final phase of limited additional cross-trenching and excavation work with the remaining treatment cells being subsequently disconnected and brought online April 24, 2015 following the completion of aboveground treatment cell construction activities.

From January 2015 through March 2017, a total estimated volume of 67,574 cubic yards of petroleum hydrocarbon contaminated soil was excavated at the Site to depths up to 35 feet below ground surface. The goal of this remediation was to clean up source area soils that contributed to the degradation of groundwater and ready the real property of the Site for eventual conveyance. Details associated with the OM&M of the biopiles are provided in prior remediation status reports. Further details regarding treatment cell construction and excavated soil cleanup activities are provided in SGI's January 2018 *Shallow Soil Closure Report* and September 2018 *Addendum to the Shallow Soil Closure Report – Western Portion*. The LARWQCB granted a no further action (NFA)

determination for the shallow soil in the upper 10 feet of the Site's eastern 15-acre parcel on April 19, 2018. The NFA determination was contingent upon declaration of covenant and environmental restriction, which was recorded on September 27, 2018. Regulatory closure of shallow soil in the western part of the Site is pending.

1.2.6 Soil Management

The LARWQCB previously approved the March 8, 2012 *Onsite Soil Management Plan* prepared and amended by Parsons Corporation (Parsons May 2012 *Response to April 10, 2012 RWQCB Comments on Onsite Soil Management Plan*). Both documents and the LARWQCB approval (February 26, 2014) specified the number of samples and analytical requirements. Soil generated from trenching and drilling operations at the Site was tested according to that approved soil management plan protocol.

2.0 OPERATIONS, MAINTENANCE AND MONITORING

OM&M of the remediation systems included the following tasks:

- Installed the new blower for the carbon VES. The system was restarted on November 21, 2019. Wells HW-1, HW-5, HW-7 and newly installed wells HW-8 and HW-9 are connected to the carbon VES.
- Restarted GWETS on October 10, 2019 in accordance with Industrial Wastewater Discharge permit number 22453.
- Performed minimum weekly maintenance and monitoring of the GWETS, carbon VES, thermal oxidizer VES, LNAPL Recovery, and the biosparge system.
- Collected and analyzed influent and effluent vapor samples from the carbon VES and thermal oxidizer VES.
- Performed weekly LNAPL removal from applicable wells via bailing, skimming and/or absorbent socks.
- Performed periodic gauging of wells connected to the product recovery system, along with adjusting associated pump cycle durations and frequencies to optimize LNAPL removal.
- Continued extraction efforts from wells with LNAPL and monitored for thicknesses of LNAPL sufficient to resume pumping in off-line wells.

Remediation system inspections were performed on a regular basis during operation. For these inspections, vapor flow rate, vacuum, volumes of extracted product, hours of operation, and other system parameters were recorded.

2.1 Groundwater Extraction and Treatment System

The GWETS was restarted on October 10, 2019. System OM&M details and monthly performance results are summarized in Tables 2A, 2B and 2C.

A historical summary of influent water analytical sample results is provided in Table 6. Per the new sewer discharge permit, sampling will be conducted semiannually (per the permit requirements) and quarterly (chemical oxygen demand [COD] and suspended solids [SS] only) beginning January 1, 2020.

2.2 Soil Vapor Extraction Systems

The carbon VES system was restarted on November 21, 2019 upon installation of a new blower. System OM&M details and performance results are summarized in Tables 3A, 3B and 3C.

A temporary thermal oxidizer VES operated from January 8, 2018. The system was shut down on January 8, 2019 to comply with the SCAQMD Various Locations Permit which limited the operational period to one calendar year.

A thermal oxidizer VES was installed and startup was conducted on March 13, 2019. System operational hours were limited to daytime hours from July to mid-August due to ongoing noise concerns from nearby residents. Sound blankets were installed in August and the thermal oxidizer began unrestricted operation (24/7) on August 26, 2019. The thermal oxidizer is intended to treat vapors associated with the relatively high concentration SVE wells that were originally tied into the carbon VES, as discussed in SGI's May 15, 2018 *Remediation Status Report - First Quarter 2018*. All such wells that have since been installed and connected as part of ongoing remediation expansion activities at the Site have been tied into the thermal oxidizer to cost-effectively accelerate the overall remediation project. Compliance and/or performance soil vapor samples from the carbon and thermal oxidizer VESs were collected in Tedlar bags during the reporting period as summarized in Tables 3A to 4C. All vapor samples were delivered to Environmental Laboratory Accreditation Program (ELAP) accredited American Analytics for analysis.

The vapor samples were analyzed for the following:

- Total petroleum hydrocarbons quantified as gasoline (TPHg) using United States Environmental Protection Agency (EPA) Method 8015 Modified; and
- BTEX and MTBE using EPA Method 8260B.

Historical summaries of influent vapor analytical sampling results for the carbon VES and thermal oxidizer VES are provided in Tables 7 and 8, respectively. The laboratory analytical reports and chain-of-custody documents for the thermal oxidizer VES samples are included in Appendix A. As the Table 8 results indicate, thermal oxidizer VES concentrations have increased relative to the previous reporting period, likely due to volatilization induced by the biosparging operations that began in late December 2018. Maximum gasoline range organic (GRO), benzene and MTBE concentrations this period are 3,100 micrograms per liter ($\mu\text{g/L}$), 18 $\mu\text{g/L}$ and non-detect (ND) <2.0 $\mu\text{g/L}$, respectively. Maximum historic levels for these constituents were previously 2,500 $\mu\text{g/L}$ for GRO (August 2019) and 6.6 $\mu\text{g/L}$ for benzene (August 2019). MTBE has never been detected.

2.3 Biosparge System

The biosparge wells associated with the original system are located in areas throughout the central area and eastern boundary of the Site. As summarized on Table 1, several of these wells were abandoned to allow for the excavation of impacted soil from the area at or surrounding each respective well (see Sections 1.2.5 and 1.2.6) or were confirmed to be missing/destroyed during September 2016 field reconnaissance work.

Dual-nested SVE and biosparge wells RW-1 through RW-34 were installed during late June and early July 2017 with additional wells, RW-35 through RW-50 and TFB-1 through TFB-38, installed during November and December 2017 (Table 1). All of these wells were installed as part of ongoing remedial expansion activities to target impacts in the northeastern, central and former truck fueling areas of the Site (Figure 2) in accordance with SGI's March 14, 2017 *Well Replacement Report and Work Plan*, June 30, 2017 *Remediation Well Installation Update Report*, and July 11, 2018 *Well Installation Completion Report*.

Conveyance piping installation activities concluded in October 2018, and the system equipment assembly was completed in early December 2018. System equipment shakedown testing was conducted in mid-December 2018, and preliminary system startup occurred during the week of December 24, 2018. System operation resumed in early 2019. Biosparge operations conducted during this quarter continued in the central area, the eastern area, and the southern area wells. Biosparge system OM&M details during this quarter are provided in Tables 11A through 11C.

2.4 LNAPL Removal Via Bailing, Skimming and Absorbent Socks

Depth to product (DTP) and depth to groundwater (DTW) were measured to the nearest 0.01 foot from the top of the well casing (TOC) using an interface probe in select monitoring wells approximately every two weeks during the reporting period. LNAPL was removed from select wells via manual bailing, active pumping using a portable product skimmer and by utilizing absorbent socks. Mass and volume removal estimates using these techniques are summarized in Tables 5A through 5C along with associated LNAPL gauging results. All product is placed in an AST located within the existing treatment compound.

2.5 LNAPL Removal Via Product Recovery System

The permitting and installation of the product recovery system was completed on August 8, 2016 at which time full-scale operations commenced. At this time, the system consists of six pneumatically activated product removal pumps deployed in key wells located in the north-central portion of the Site. Two additional pumps were procured during October 2017 in response to increasing LNAPL thickness trends from the prior quarter. In early October 2018, an additional eight product removal pumps were brought online, expanding the system capacity to allow operation of up to 16 product removal pumps simultaneously.

All pumped product is routed to an AST located within the existing treatment compound via double contained conveyance piping. The product stored in the AST is subsequently removed off-site by a licensed transport, recycling and disposal company. LNAPL removal is determined individually for wells with product removal pumps based on interpolating the total volume of product collected in the AST during a given quarter and periodically measuring the volume of LNAPL recovered per cycle for each pump (i.e., portion of total AST product volume assigned to each pump calculated from well-specific cycle duration and frequency values programmed on the basis of current gauging and yield data). Product recovery system OM&M continued through the current quarter with limited operation due to the decrease in LNAPL in wells. Product recovery system OM&M details during this quarter are provided in Tables 5D through 5T.

3.0 SUMMARY OF REMEDIATION PROGRESS

The following sections describe remedial progress at the Site.

3.1 Groundwater Extraction and Treatment System

The GWETS was restarted on October 10, 2019. Based on the total petroleum hydrocarbons quantified as diesel (TPHd) results for influent water samples and total groundwater extracted, estimated 9,946 pounds of TPHd have been removed since April 1996 (Table 2C).

3.2 Soil Vapor Extraction Systems

The carbon VES system was restarted on November 21, 2019 upon installation of a new blower. Wells HW-1, HW-5, HW-7 and newly installed HW-8 and HW-9 are connected to the carbon VES system. Well HW-3 remained off-line after it was first determined to be yielding minimal flow during July 2017, and subsequently scoped and confirmed to be collapsed in two separate locations during November 2017. Flow and mass extraction testing were conducted on well HW-3 in December 2018, and results indicated very low vapor concentrations and minimal flow rate. The well was abandoned on June 7, 2019 and replaced with two new horizontal wells, HW-8 and HW-9. These two new wells were connected to the carbon VES in July 2019.

During this quarter, wells (central area) TFR-21, TFR-26, TFR-27, TFR-28, TFR-34, TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW, TFR-23, TFR-24, TFR-30, TFR-33, TFR-29, TFR-17, TFR-18, TFR-19, TFR-22, TFR-13, TFR-14, TFR-15, TFR-16, TFR-7, TFR-9, TFR-12; (eastern area) RW-1, RW-18, RW-13, RW-4, RW-5, RW-9, RW-10; (southern area) RW-30, RW-31, RW-32, VEW-38, VEW-40, RW-26, RW-28, RW-33, RW-35, RW-40, RW-44, RW-36, RW-37, RW-41, RW-42, RW-47, RW-48, RW-49, RW-50 were used as the extraction points for the thermal oxidizer VES based on field photoionization detector (PID) readings (Tables 9A through 9D) and previous quarters laboratory concentrations (Table 10).

The total mass of VOCs removed via the carbon and the thermal oxidizer extraction systems during this period was approximately 78,473 pounds (137 pounds via the carbon VES and 78,336 pounds via the thermal oxidizer VES). An estimated 2,982,913 pounds have been removed since April 1996 (Table 3C) via the carbon VES and approximately 148,191 pounds removed via the temporary and permanent thermal oxidizer VESs since January 2018 (Table 4C).

The relatively low mass of VOCs removed by the thermal oxidizer VES in July to mid-August is due in large part to the reduced overall uptime (Tables 4A, 4B and 4C) associated with the intermittent operations due to noise issues. Unrestricted system operations began on August 26, 2019 after the installation of sound blankets. Note that the total estimated mass of VOCs removed via SVE does not account for any mass removed *in-situ* via biodegradation.

3.3 Biosparge System

Recommissioning of the biosparge system was completed during Fourth Quarter 2018, and system startup operations began in late December in the central area wells BSP-21 through BSP-24, BSP-27, BSP-25, BSP-26, BSP-28 through BSP-30; in mid-April 2019 in the eastern area wells BSP-10 thru BSP-14, RW-4, RW-5, RW-9, RW-10, RW-11, RW-14, RW-18. On August 23, 2019, Sparging operations were phased into the southern area wells BSP-19, BSP-20, RW-21, RW-23, RW-26, BSP-17, BSP-18, RW-30, RW-31, RW-32, RW-34, BSP-15, BSP-16, RW-19, RW-20, RW-25, and RW-28.

3.4 LNAPL Gauging and Removal

During the reporting period, DTW and DTP were measured in Hollifield Park wells GMW-62, GMW-68, and onsite wells GMW-7, TF-19, TFR-9, GMW-18, TFR-12, TF-15, TFR-15, TF-16, GW-14R, TFR-22, TFR-24, TFR-29, TFR-33, RTF-18-E, RTF-18-NW, RTF-18-N, TF-18, RTF-18-NNW, RTF-18W (Tables 5A through 5U). Overall, LNAPL thickness and removal rates decreased in Fourth Quarter 2019.

A total of approximately 175 gallons (1,195 pounds) of LNAPL was removed from the Site during this quarter, and an estimated 10,088 gallons (68,470 pounds) of LNAPL has been removed since January 2014.

3.5 LNAPL Removal Via Bailing, Skimming and Absorbent Socks

Approximately 1.6 gallons (11 pounds) of LNAPL was removed via manual bailing, active pumping using a portable product skimmer and/or by utilizing absorbent socks from wells GMW-62, GMW-68, GMW-7, TF-19 (Tables 5A through 5C, respectively).

3.6 LNAPL Removal Via Product Recovery System

Wells TFR-9, GMW-18, TFR-12, TF-15, TFR-15, TF-16, GW-14R, TFR-22, TFR-24, TFR-29, and TFR-33, RTF-18-E, RTF-18-NW, RTF-18-N, TF-18, RTF-18-NNW and RTF-18-W were connected to an automated product recovery system which included 16 total active recovery pumps. Pumping resumed in well RTF-18E in early January 2019 and was taken back off-line in late February 2019 due to insufficient yield. Pumping resumed in September 2019. Well RTF-18-NNW has remained off-line due to insufficient yield since March 2018. Based on low LNAPL yields during initial testing from wells TFR-14, TFR-18, TFR-27, and GMW-45 conducted in early October 2018, skimmers have remained off-line since mid-October 2018. If LNAPL thicknesses increase, pumping may resume from these wells during the next reporting period.

Approximately 173 gallons (1,484 pounds) of LNAPL was pumped from wells TF-16, TFR-22, TFR-29 and RTF-18-E during this reporting period, with most LNAPL recovered from wells TFR-22 (226 pounds) and TFR-29 (766 pounds).

LNAPL gauging results along with cumulative mass and volume removal estimates are summarized in Tables 5A through 5U. As the tables indicate, product thicknesses generally decreased during the

current reporting period. Consequently, wells TF-16, TFR-22, TFR-29 and RTF-18-E were the only active pumping wells at the end of the reporting period.

4.0 REMEDIATION SYSTEMS EVALUATION AND OPTIMIZATION

Remedial system optimization activities are ongoing at the Site to help ensure effective cleanup operations. For the carbon VES, vapor-phase VOC concentrations from the horizontal wells (i.e., HW-1, HW-5 and HW-7 and newly installed wells HW-8 and HW-9) will be monitored and sampled.

For the thermal oxidizer VES, the following wells were used as the extraction points during this quarter: (central area) TFR-21, TFR-26, TFR-27, TFR-28, TFR-34, TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW, TFR-23, TFR-24, TFR-30, TFR-33, TFR-29, TFR-17, TFR-18, TFR-19, TFR-22, TFR-13, TFR-14, TFR-15, TFR-16, TFR-7, TFR-9, TFR-12; (eastern area) RW-1, RW-18, RW-13, RW-4, RW-5, RW-9, RW-10; (southern area) RW-30, RW-31, RW-32, VEW-38, VEW-40, RW-26, RW-28, RW-33, RW-35, RW-40, RW-44, RW-37, RW-41, RW-42, RW-47, RW-48, RW-49, RW-50.

Continuous thermal oxidizer VES operation began on August 26, 2019 after the installation of sound blankets.

Reconfiguration of the respective vapor extraction systems will be conducted regularly to allow for cost-effective site-wide cleanup. Thus, as concentration levels in one or more currently high concentration wells decline to the point where carbon treatment becomes feasible, the well(s) will be progressively disconnected from the thermal oxidizer VES and tied into the carbon VES. Note that based on recent electrical load testing results, the existing service capacity will allow simultaneous full-time operation of both the carbon VES and the permanent full-scale thermal oxidizer along with the other remedial equipment. The utility planner continues to work on the design for the planned electrical upgrade and service relocation from its current location in the northeastern corner of the eastern 15-acre parcel.

SGI will continue to monitor individual well influent vapor concentrations associated with each existing VES and modify which extraction wells are online along with adjusting respective valve positions, as necessary.

Per the non-detect, stable, or declining dissolved groundwater analytical data from off-site wells (as illustrated in previous semiannual groundwater monitoring reports) and from the previous aquifer pump testing and groundwater capture zone analysis, the current GWETS with wells in the northwest corner of the site and the eastern area, along with natural attenuation, has been successful in preventing further impacted groundwater from flowing off site, and has captured and treated a significant portion of impacted groundwater under Holifield Park and in the northwest corner of the Site. The overall area of impacts and plumes were also similar to previous events.

GWE in the northwest corner of the site and in the eastern area will continue to assist with containment until further evaluation of natural attenuation is conducted. Additionally, absorbent sock installation and LNAPL recovery via pumping and/or manual bailing will continue along with full-scale OM&M of the product recovery system. LNAPL recovery was sufficient to allow for pumping in wells

TF-16, TFR-22, and TFR-29, and RTF-18-E. Currently, wells TF-16, TFR-22, TFR-29, RTF-18E are the only active pumping wells.

Up-to-date gauging data will continue to be collected during the next reporting period with rotating recovery operations being implemented on the basis of ongoing performance data. If warranted by the data, pumping will also resume in any locations where it was previously conducted.

For all active pumping wells, adjustments will continue to be made to the associated extraction frequency and duration of each pump cycle to help maximize LNAPL yields without isolating the well from the product plume. Future adjustments to all such wells may also be made on the basis of ongoing bail down testing conducted to establish current transmissivity values for correlating apparent to actual product thicknesses.

5.0 PLANNED FIRST QUARTER 2020 ACTIVITIES

During the next reporting period, DLA Energy plans to continue to focus in-situ remedial efforts on the central area, eastern area, and southern area of the Site along with completing the remaining activities necessary to expand biosparge system operations to full-scale. Following is a summary of planned First Quarter 2020 OM&M activities:

- Continue minimum weekly maintenance and monitoring of the thermal oxidizer VES. Tasks include measuring individual well vapor concentrations with an organic vapor analyzer (OVA) and collecting/analyzing monthly influent and effluent vapor samples.
- Collect individual extraction well vapor samples for laboratory analysis as needed. Vapor samples will be collected from horizontal wells and extraction wells.
- Continue regular LNAPL gauging and removal activities (as applicable), including wells GWM-62 and GMW-68 (both located off site in Holifield Park), GMW-7, TF-19, and product recovery system wells TFR-9, GMW-18, TFR-12, TF-15, TFR-14, TFR-15, TF-16, GW-14R, TFR-18, TFR-22, TFR-24, TFR-29, TFR-33, RTF-18E, RTF-18-NW, RTF-18-N, RTF-18-NNW, RTF-18-W, TF-18, TFR-27, and GMW-45.
- Gauge wells TFR-17, TFR-19, TFR-32, TFR-30, TFR-5, TFR-7, TFR-21, and TFR-26 periodically as SVE is applied (via the thermal oxidizer VES) in order to evaluate any appearance and/or increase in LNAPL thicknesses and the potential for active/passive product recovery.
- Continue controlled product recovery system OM&M from wells TF-16, TFR-22, and TFR-29, and RTF-18-E, located in the north-central portion of the Site, with focused efforts in wells where LNAPL yields are the most significant.
- Continue to utilize the carbon VES for focused extraction from the relatively low concentration SVE wells to allow for reasonable carbon usage rates while achieving comprehensive site-wide vadose zone cleanup in conjunction with the new permanent thermal oxidizer VES (i.e., treatment of both relatively high and low concentration wells via the simultaneous use of both vapor abatement technologies).
- Continue the phased expansion of the permanent thermal oxidizer VES operations to cost-effectively process high vapor concentration (thermal mode above approximately 3,000 parts per million (ppm) to moderate concentration (catalytic mode from approximately 500 ppm to 3,000 ppm) well flows with any remaining low concentration (less than approximately 500 ppm) well flows being more cost-effectively treated via the existing GAC system.
- Continue to expand biosparge system operation in areas with dissolved impacts but no measurable in-well LNAPL (e.g. southern and north-central areas).
- Continue regular GWETS operations per the new sewer discharge permit.

- Continue to evaluate GWE flow rates and confirm contaminant containment.
- Evaluate the feasibility of disconnecting the groundwater pump from GW-2 and GW-13 for installation in GW-14R and one additional existing well, to be determined.

Ongoing remediation activities and progress will be described in the *First Quarter 2020 Remediation Progress Report* to be submitted by May 15, 2020.

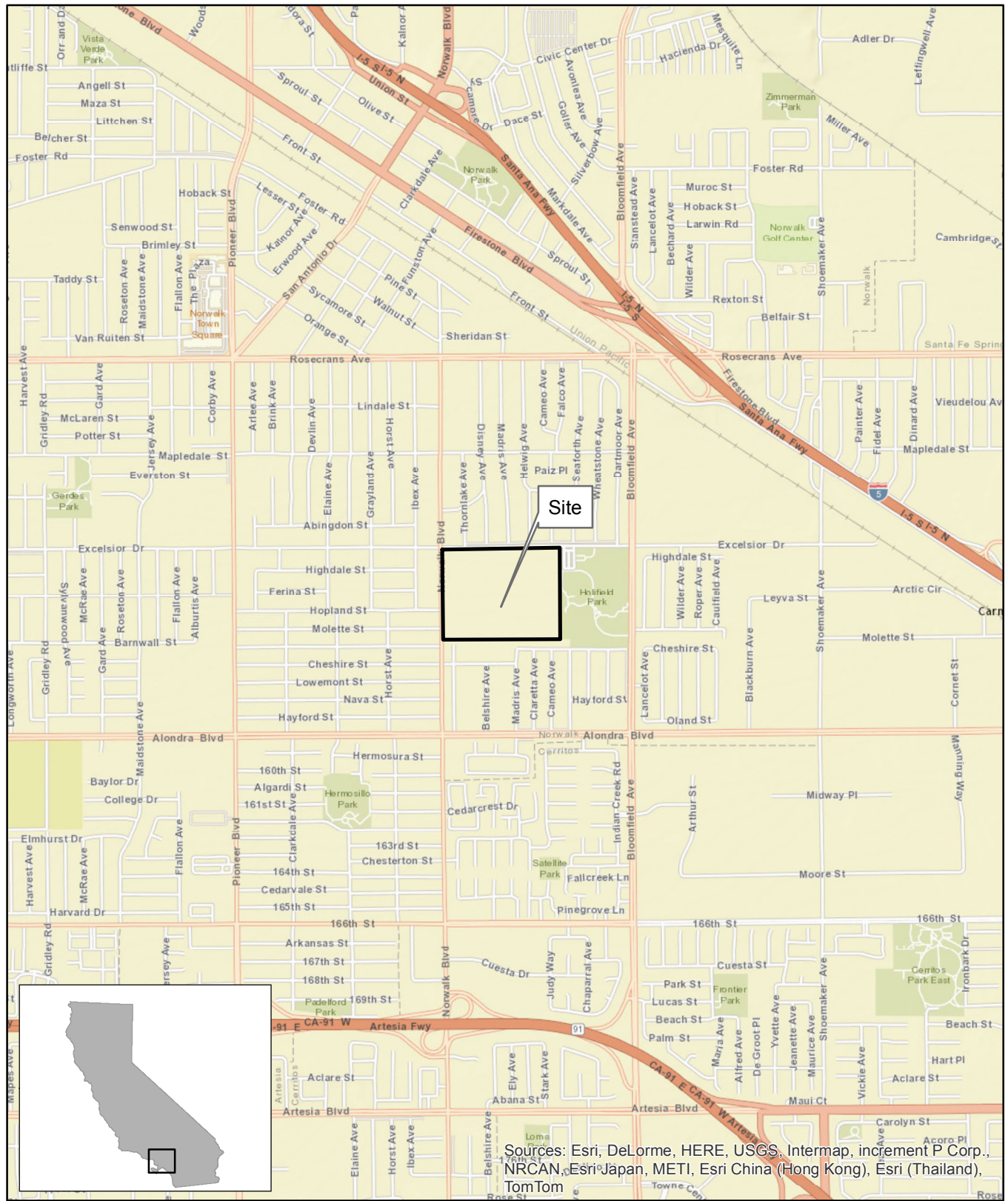
6.0 LIMITATIONS

This document was prepared for the exclusive use of the DLA Energy and the LARWQCB for the express purpose of complying with a client or regulatory directive for environmental investigation or restoration. SGI and DLA Energy must approve any re-use of this work product in whole or in part for a different purpose or by others in writing. If any such unauthorized use occurs, it shall be at the user's sole risk without liability to SGI or DLA Energy.

To the extent that this report is based on information provided to SGI by third parties, including DLA Energy, their direct contractors, previous personnel, and other stakeholders, SGI cannot guarantee the completeness or accuracy of this information, even where efforts were made to verify third-party information. SGI has exercised professional judgment to collect and present findings and opinions of a scientific and technical nature. The opinions expressed are based on the conditions of the Site existing at the time of the field investigation, current regulatory requirements, and any specified assumptions.

The presented findings and recommendations in this report are intended to be taken in their entirety to assist DLA Energy and LARWQCB personnel in applying their own professional judgment in making decisions related to the property. SGI cannot provide conclusions on environmental conditions outside the completed scope of work. SGI cannot guarantee that future conditions will not change and affect the validity of the presented conclusions and recommended work. No warranty or guarantee, whether expressed or implied, is made with respect to the data or the reported findings, observations, conclusions, and recommendations.

FIGURES



Sources: Esri, DeLorme, HERE, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom

SOURCE:
ESRI 7.5 MINUTE TOPOGRAPHIC MAP.
<http://resources.esri.com/arcgisonline/services>

PROJECT NO.:	DATE:	DR. BY:	APP. BY:
04-NDLA-003	5/28/2014	JK	PP

SCALE= 1:24,000



FIGURE
1

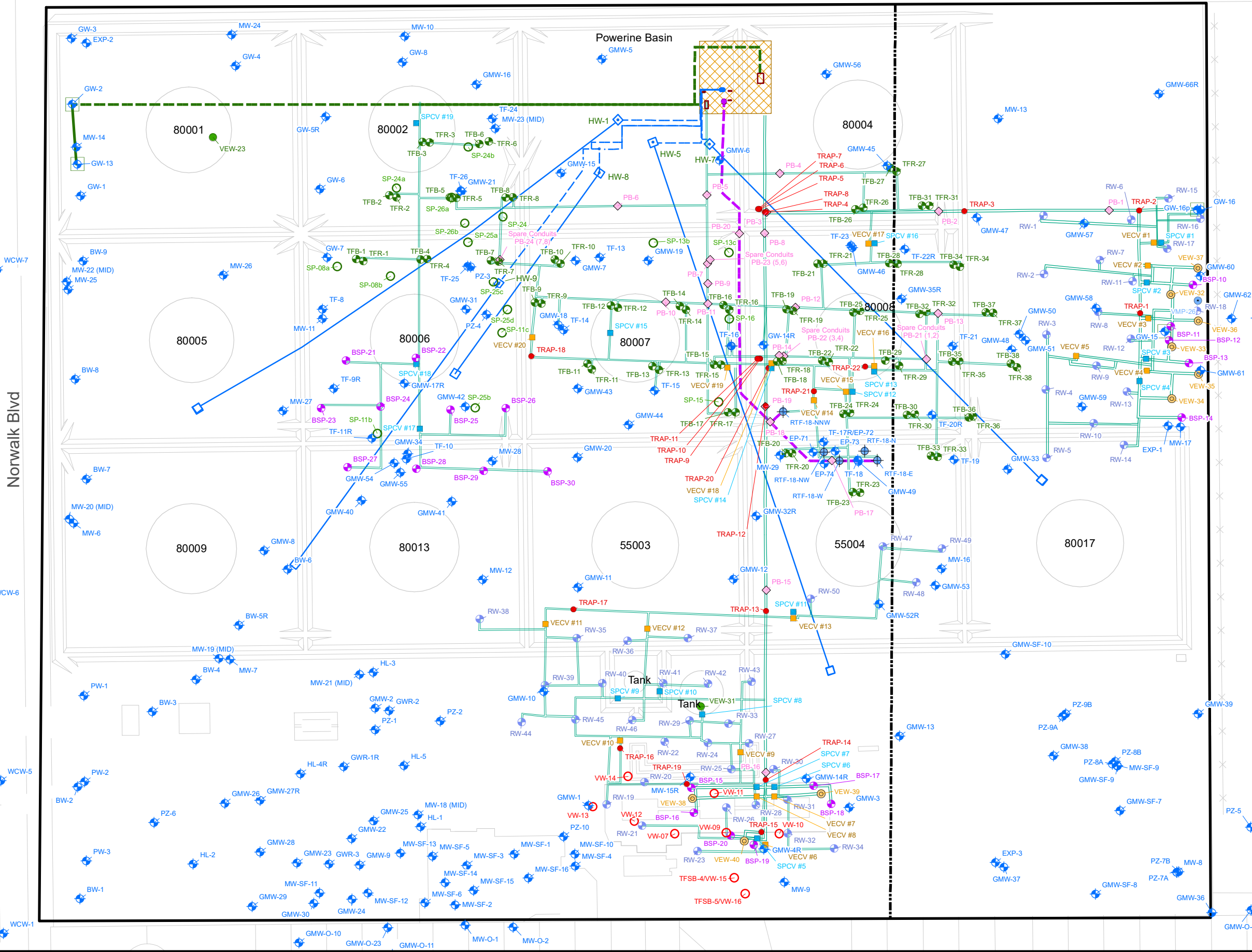
SGI THE SOURCE GROUP, INC.
environmental
1962 FREEMAN AVENUE
SIGNAL HILL, CA 90755
(562) 597-1055

**DEFENSE FUEL SUPPORT POINT
NORWALK**
15306 NORWALK BOULEVARD
NORWALK, CALIFORNIA

SITE LOCATION MAP

Excelsior Dr

Norwalk Blvd



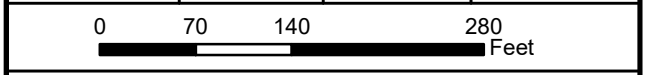
Legend

- 80001 Former Above Ground Storage Tanks
- DFSP Norwalk Border
- Fence
- Berm
- Treatment System Enclosure
- Below Grade Trenching and Piping to Remediation Wells
- Existing Horizontal Vapor Extraction Wells
- Below Grade Groundwater Extraction System Piping
- Above Grade Groundwater Extraction System Piping
- Product Recovery System Piping
- Horizontal Vapor Extraction System Piping
- Western Boundary of Eastern 15-Acre Parcel
- System Manifold within Treatment Enclosure
- Total Fluid and Groundwater Monitoring Wells
- TF-18 Area LNAPL Recovery Wells
- Biosparging Wells
- Vapor Extraction Wells (November 2016)
- Biosparging and Vapor Extraction Wells
- Co-Located Total Fluid and Biosparge Wells
- Vapor Extraction Wells (2004)
- Sparging Points (August 2004)
- Pull Box (for Wire or Tubing)
- PVC Condensate Trap for Vapor Extraction Piping
- Vapor Extraction System Control Vaults
- Biosparge System Control Vaults



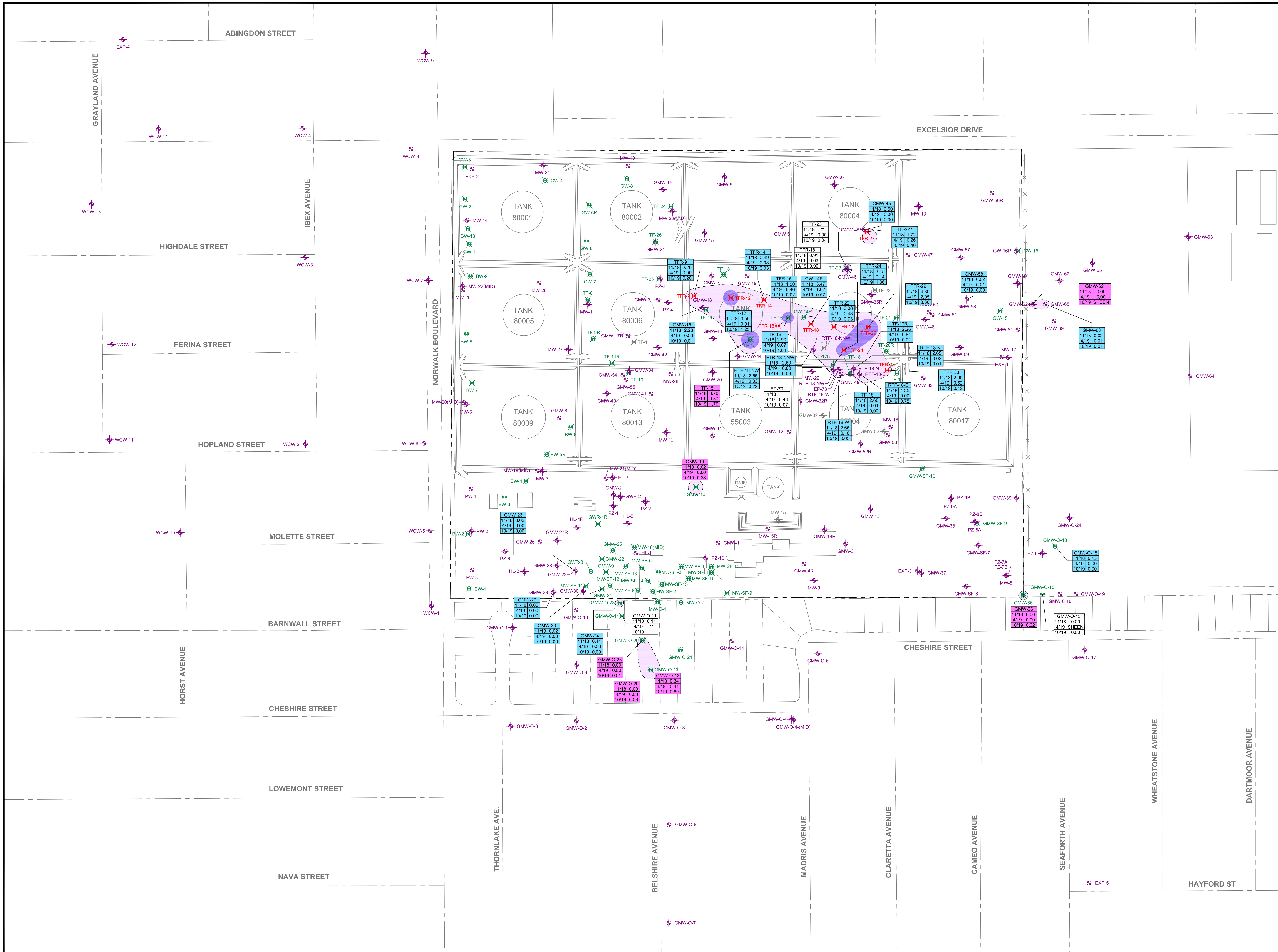
DFSP Norwalk
15306 Norwalk Boulevard
Norwalk, California

Project Number:	Date:	Drawn By:	Approved By:
091-NDLA-026	01/15/2019	PW / SM	BT



Site Map Showing All Well and Piping Locations

1962 Freeman Avenue Signal Hill, CA 90755 (562) 597-1055	Figure 2
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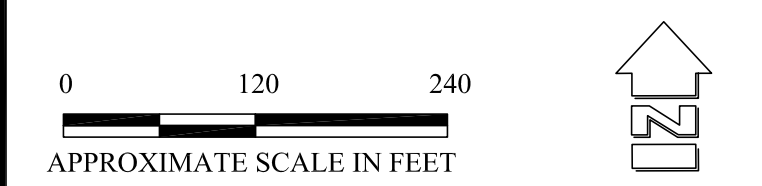


EXPLANATION:

- FORMER ABOVEGROUND STORAGE TANKS
 - DFSP NORWALK BORDER
 - GROUNDWATER MONITORING WELL
 - TOTAL FLUIDS RECOVERY WELL
 - WELLS SHOWN IN GREY WERE DECOMMISSIONED BY DLA ENERGY PRIOR TO REMEDIAL EXCAVATION
 - EXTRACTION WELL USED FOR VAPOR, GROUNDWATER, TOTAL FLUIDS, OR FLOATING PRODUCT EXTRACTION
- TFR-18**
 11/18 0.91
 4/19 0.03
 10/19 0.90
- GMW-10**
 11/18 0.02
 4/19 0.00
 10/19 0.28
- GMW-22**
 11/18 3.08
 4/19 0.43
 10/19 0.73
- NOT MEASURED
 - ESTIMATED EXTENT OF MEASURABLE LIGHT NONAQUEOUS PHASE LIQUID (LNAPL, FLOATING PRODUCT) ON GROUNDWATER. DARKER SHADING INDICATES GREATER THAN 1 FOOT (MEASURED THICKNESS) OF FLOATING PRODUCT

SURVEY NOTES:

1. BASE MAP PREPARED FROM DATA PROVIDED BY FLUOR DANIEL GTI, DULIN & BOYNTON, GEOMATRIX, AND PARSONS
2. EXCEPT AS NOTED BELOW, WELL LOCATIONS SURVEYED BY DULIN & BOYNTON
3. LOCATIONS OF WELLS HL-1, HL-3, AND HL-4 BASED ON FIELD MEASUREMENTS BY FLUOR DANIEL GTI AND WOODWARD-CLYDE



DATE: 12/2019	FILE NAME: DFSP-Norwalk-SE2-19.dwg
PROJECT No.: 091-NDLA-018	CONTRACT: SPO-600-14-D-5410

DISTRIBUTION OF FLOATING PRODUCT ON GROUNDWATER SECOND SEMIANNUAL 2019 MONITORING EVENT

DFSP NORWALK
 15306 NORWALK BOULEVARD
 NORWALK, CALIFORNIA

TABLES

TABLE 1
Remediation Well Summary
DFSP Norwalk
15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Location	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
Central Area	Northwest Corner (AST 80001)	GW-1		06/12/95	75.97	63	25 - 60	GWE
		GW-2		06/12/95	75.78	63	25 - 60	GWE
		GW-3		06/13/95	75.79	63	25 - 60	GWE
		GW-4		06/12/95	75.78	63	25 - 60	GWE
		GW-13		04/26/07	76.85	67	25 - 65	GWE
		VEW-23		08/03/04	76.20	25	15 - 25	SVE
Central Area	North (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 80001, AST 55004)	VEW-22	16	--	--	25	15 - 25	SVE
		HW-1	14	--	--	25	Continuous	SVE
		HW-3	14, 17, 18	--	--	25	Continuous	SVE
		HW-5	14	--	--	25	Continuous	SVE
		HW-7	14	--	--	25	Continuous	SVE
		HW-8	19	06/07/19	--	30	60	SVE
		HW-9	19	06/07/19	--	29	220	SVE
		GMW-21	1	08/02/91	76.23	50	25 - 50	TFE/GWE
		GW-14R	2	11/08/16	78.77	50	25 - 50	GWE
		SP8a	15	--	--	50	48 - 50	Biosparge
		SP-8b	15	--	--	50	48 - 50	Biosparge
		SP-11b	15	--	--	50	48 - 50	Biosparge
		SP-11c	15	--	--	50	48 - 50	Biosparge
		SP-13b	3, 15	--	--	50	48 - 50	Biosparge
		SP-13c	15	--	--	50	48 - 50	Biosparge
		SP-15	4, 15	--	--	50	48 - 50	Biosparge
		SP-16	15	--	--	50	48 - 50	Biosparge
		SP-24	15	--	--	50	48 - 50	Biosparge
		SP-24a	15	--	--	50	48 - 50	Biosparge
		SP-24b	15	--	--	50	48 - 50	Biosparge
		SP-25a	15	--	--	50	48 - 50	Biosparge
		SP-25b	15	--	--	50	48 - 50	Biosparge
		SP-25c	15	--	--	50	48 - 50	Biosparge
		SP-25d	15	--	--	50	48 - 50	Biosparge
		SP-26	15	--	--	50	48 - 50	Biosparge
		SP-26a	15	--	--	50	48 - 50	Biosparge
		TF-8		09/22/95	74.86	63	25 - 60	TFE, GWE
		TF-9	5	09/22/95	74.47	63	25 - 60	TFE, GWE
		TF-10		09/25/95	73.61	63	25 - 60	TFE, GWE
		TF-11	5	09/25/95	74.40	63	25 - 60	TFE, GWE
		TF-13		09/26/95	75.47	63	25 - 60	TFE, GWE
		TF-14		09/27/95	74.35	63	25 - 60	TFE, GWE
		TF-15		09/28/95	74.78	63	25 - 60	TFE, GWE
		TF-16		09/28/95	75.89	63	25 - 60	TFE, GWE
TF-17	6	09/29/95	74.88	63	25 - 60	TFE, GWE		
TF-18		07/06/94	73.75	50.5	20 - 50	TFE, GWE		
TF-19		10/03/95	75.07	63	25 - 60	TFE, GWE		
TF-20	7	10/03/95	75.08	63	25 - 60	TFE, GWE		
TF-21		09/29/95	74.96	63	25 - 60	TFE, GWE		
TF-22	8	10/02/95	74.76	63	25 - 60	TFE, GWE		

TABLE 1
Remediation Well Summary
DFSP Norwalk
15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Location	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
Central Area	North (AST 80002, AST 80006, AST 80008, AST 55004)	TF-23		07/05/94	75.31	50.5	20 - 50	TFE, GWE
		TF-24	9	09/26/95	76.43	63	25 - 60	TFE, GWE
		TF-25		04/04/01	74.85	47	26 - 36	TFE, GWE
		TF-26		04/03/01	75.85	47	26 - 36	TFE, GWE
		RTF-18-N		12/28/15	75.17	40	25 - 40	TFE, GWE
		RTF-18-E		12/28/15	75.19	40	25 - 40	TFE, GWE
		RTF-18-W		12/28/15	74.86	40	25 - 40	TFE, GWE
		RTF-18-NW		12/29/15	76.22	40	25 - 40	TFE, GWE
		RTF-18-NNW		12/29/15	76.77	40	25 - 40	TFE, GWE
Central Area	North (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 80013, AST 55003, AST 55004)	BSP-21	10	12/07/17	--	46	43 - 45	Biosparge
		BSP-22	10	12/07/17	--	46	43 - 45	Biosparge
		BSP-23	10	12/08/17	--	46	43 - 45	Biosparge
		BSP-24	10	12/07/17	--	46	43 - 45	Biosparge
		BSP-25	10	12/08/17	--	46	43 - 45	Biosparge
		BSP-26	10	12/08/17	--	46	43 - 45	Biosparge
		BSP-27	10	12/07/17	--	46	43 - 45	Biosparge
		BSP-28	10	12/07/17	--	46	43 - 45	Biosparge
		BSP-29	10	12/08/17	--	46	43 - 45	Biosparge
		BSP-30	10	12/11/17	--	46	43 - 45	Biosparge
		TFR-1	10	12/13/17	--	40	20 - 40	TFE, SVE
		TFR-2	10	12/12/17	--	40	20 - 40	TFE, SVE
		TFR-3	10	12/12/17	--	40	20 - 40	TFE, SVE
		TFR-4	10	12/13/17	--	40	20 - 40	TFE, SVE
		TFR-5	10	12/12/17	--	40	20 - 40	TFE, SVE
		TFR-6	10	12/12/17	--	40	20 - 40	TFE, SVE
		TFR-7	10	12/13/17	--	40	20 - 40	TFE, SVE
		TFR-8	10	12/12/17	--	40	20 - 40	TFE, SVE
		TFR-9	10	12/13/17	--	40	20 - 40	TFE, SVE
		TFR-10	10	12/11/17	--	40	20 - 40	TFE, SVE
		TFR-11	10	12/11/17	--	40	20 - 40	TFE, SVE
		TFR-12	10	12/11/17	--	40	20 - 40	TFE, SVE
		TFR-13	10	12/15/17	--	40	20 - 40	TFE, SVE
		TFR-14	10	12/13/17	--	40	20 - 40	TFE, SVE
		TFR-15	10	12/14/17	--	40	20 - 40	TFE, SVE
		TFR-16	10	12/14/17	--	40	20 - 40	TFE, SVE
		TFR-17	10	12/14/17	--	40	20 - 40	TFE, SVE
		TFR-18	10	12/14/17	--	40	20 - 40	TFE, SVE
		TFR-19	10	12/12/17	--	40	20 - 40	TFE, SVE
		TFR-20	10	12/15/17	--	40	20 - 40	TFE, SVE
		TFR-21	10	12/11/17	--	40	20 - 40	TFE, SVE
TFR-22	10	11/30/17	--	40	20 - 40	TFE, SVE		
TFR-23	10	11/29/17	--	40	20 - 40	TFE, SVE		
TFR-24	10	11/30/17	--	40	20 - 40	TFE, SVE		
TFR-25	10	11/30/17	--	40	20 - 40	TFE, SVE		
TFR-26	10	11/29/17	--	40	20 - 40	TFE, SVE		
TFR-27	10	11/29/17	--	40	20 - 40	TFE, SVE		
TFR-28	10	11/29/17	--	40	20 - 40	TFE, SVE		
TFR-29	10	11/29/17	--	40	20 - 40	TFE, SVE		
TFR-30	10	11/29/17	--	40	20 - 40	TFE, SVE		
TFR-31	10	11/29/17	--	40	20 - 40	TFE, SVE		

TABLE 1
Remediation Well Summary
DFSP Norwalk
15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Location	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
		TFR-32	10	11/30/17	--	40	20 - 40	TFE, SVE
		TFR-33	10	11/28/17	--	40	20 - 40	TFE, SVE
		TFR-34	10	11/28/17	--	40	20 - 40	TFE, SVE
		TFR-35	10	11/29/17	--	40	20 - 40	TFE, SVE
		TFB-1	10	12/06/17	--	46	43 - 45	Biosparge
		TFB-2	10	12/05/17	--	46	43 - 45	Biosparge
		TFB-3	10	12/05/17	--	46	43 - 45	Biosparge
		TFB-4	10	12/06/17	--	46	43 - 45	Biosparge
		TFB-5	10	12/06/17	--	46	43 - 45	Biosparge
		TFB-6	10	12/05/17	--	46	43 - 45	Biosparge
		TFB-7	10	12/06/17	--	46	43 - 45	Biosparge
		TFB-8	10	12/05/17	--	46	43 - 45	Biosparge
Central Area	North (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 80013, AST 55003, AST 55004)	TFB-9	10	12/04/17	--	46	43 - 45	Biosparge
		TFB-10	10	12/04/17	--	46	43 - 45	Biosparge
		TFB-11	10	12/04/17	--	50	48 - 50	Biosparge
		TFB-12	10	12/01/17	--	46	43 - 45	Biosparge
		TFB-13	10	12/01/17	--	46	43 - 45	Biosparge
		TFB-14	10	11/30/17	--	46	43 - 45	Biosparge
		TFB-15	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-16	10	11/28/17	--	46	43 - 45	Biosparge
		TFB-17	10	11/28/17	--	46	43 - 45	Biosparge
		TFB-18	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-19	10	11/28/17	--	46	43 - 45	Biosparge
		TFB-20	10	11/30/17	--	46	43 - 45	Biosparge
		TFB-21	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-22	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-23	10	11/28/17	--	46	43 - 45	Biosparge
		TFB-24	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-25	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-26	10	11/22/17	--	46	43 - 45	Biosparge
		TFB-27	10	11/21/17	--	46	43 - 45	Biosparge
		TFB-28	10	11/22/17	--	46	43 - 45	Biosparge
		TFB-29	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-30	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-31	10	11/21/17	--	46	43 - 45	Biosparge
		TFB-32	10	11/22/17	--	46	43 - 45	Biosparge
		TFB-33	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-34	10	11/21/17	--	46	43 - 45	Biosparge
		TFB-35	10	11/27/17	--	46	43 - 45	Biosparge
		RW-35	10	11/15/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-36	10	11/15/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-37	10	11/16/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-38	10	11/16/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge
		RW-47	10	11/17/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge
RW-48	10	11/17/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge		
RW-49	10	11/16/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge		
RW-50	10	11/20/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge		

TABLE 1
Remediation Well Summary
DFSP Norwalk
15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Location	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function	
Eastern Area	North	BSP-1	11	04/18/07	--	50	47 - 49	Biosparge	
		BSP-2	11	04/18/07	--	50	48 - 50	Biosparge	
		BSP-3	11	04/17/07	--	48	46 - 48	Biosparge	
		BSP-4	11	04/17/07	--	49	47 - 49	Biosparge	
		BSP-5	11	04/17/07	--	49.5	47 - 49	Biosparge	
		BSP-6	11	04/18/07	--	49	47 - 49	Biosparge	
		BSP-7	11	04/19/07	--	48	46 - 48	Biosparge	
		BSP-8	11	04/19/07	--	48	46 - 48	Biosparge	
		BSP-9	11	04/19/07	--	48	46 - 48	Biosparge	
		BSP-10	12	11/04/16	--	46.5	44 - 46	Biosparge	
		BSP-11	12	11/04/16	--	40	38 - 40	Biosparge	
		BSP-12	12	11/04/16	--	46.5	44 - 46	Biosparge	
		BSP-13	12	11/07/16	--	46.5	44 - 46	Biosparge	
		BSP-14	12	11/07/16	--	46.5	44 - 46	Biosparge	
		GMW-58		08/14/98		75.48	55	20 - 55	GWE
		GW-15		04/26/07		74.94	60.5	20.5 - 60.6	GWE
		GW-16		07/07/09		76.33	63	20.5 - 60.5	GWE
		RW-1	13	06/21/17	-- / --	35 / 46	15 - 35 / 43 - 45	SVE / Biosparge	
Eastern Area	North	RW-2	13	06/21/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-3	13	06/21/17	--	37 / 46	17 - 37 / 43 - 45	SVE / Biosparge	
		RW-4	13	06/22/17	--	34 / 46	14 - 34 / 43 - 45	SVE / Biosparge	
		RW-5	13	06/22/17	--	34 / 46	14 - 34 / 43 - 45	SVE / Biosparge	
		RW-6	13	06/27/17	--	37 / 46	17 - 37 / 43 - 45	SVE / Biosparge	
		RW-7	13	06/26/17	--	37 / 46	17 - 37 / 43 - 45	SVE / Biosparge	
		RW-8	13	06/28/17	--	38.5 / 46	18.5 - 38.5 / 43 - 45	SVE / Biosparge	
		RW-9	13	06/26/17	--	35 / 46	15 - 35 / 43 - 45	SVE / Biosparge	
		RW-10	13	06/22/17	--	34 / 46	14 - 34 / 43 - 45	SVE / Biosparge	
		RW-11	13	06/26/17	--	36 / 46	16 - 36 / 43 - 45	SVE / Biosparge	
		RW-12	13	06/23/17	--	34 / 46	14 - 34 / 43 - 45	SVE / Biosparge	
		RW-13	13	06/23/17	--	35 / 46	15 - 35 / 43 - 45	SVE / Biosparge	
		RW-14	13	06/23/17	--	34 / 46	14 - 34 / 43 - 45	SVE / Biosparge	
		RW-15	13	06/20/17	--	38 / 46	18 - 38 / 43 - 45	SVE / Biosparge	
		RW-16	13	06/20/17	--	34 / 46	14 - 34 / 43 - 45	SVE / Biosparge	
		RW-17	13	06/27/17	--	39 / 46	19 - 39 / 43 - 45	SVE / Biosparge	
		RW-18	13	06/20/17	--	38 / 46	18 - 38 / 43 - 45	SVE / Biosparge	
		SP-21a	3, 15	--	--	50	48 - 50	Biosparge	
		SP-21b	3, 15	--	--	50	48 - 50	Biosparge	
		VEW-32		04/11/07	--	25	10 - 25	SVE	
		VEW-33		04/11/07	--	25	10 - 25	SVE	
		VEW-34		04/11/07	--	25	10 - 25	SVE	
		VEW-35		04/10/07	--	25	10 - 25	SVE	
		VEW-36		04/10/07	--	25	10 - 25	SVE	
		VEW-37		40/10/07	--	25	10 - 25	SVE	
		TFR-36	10	11/30/17	--	40	20 - 40	TFE, SVE	
		TFR-37	10	11/28/17	--	40	20 - 40	TFE, SVE	
		TFR-38	10	11/28/17	--	40	20 - 40	TFE, SVE	
		TFB-36	10	11/20/17	--	46	43 - 45	Biosparge	
		TFB-37	10	11/21/17	--	46	43 - 45	Biosparge	
		TFB-38	10	11/20/17	--	46	43 - 45	Biosparge	

TABLE 1
Remediation Well Summary
DFSP Norwalk
15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Location	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
Southern Area	Former Truck Fueling Area and Adjacent Water Tank Area	BSP-15	12	11/02/16	--	50.5	48 - 50	Biosparge
		BSP-16	12	11/03/16	--	50.5	48 - 50	Biosparge
		BSP-17	12	11/03/16	--	50.5	48 - 50	Biosparge
		BSP-18	12	11/03/16	--	50.5	48 - 50	Biosparge
		BSP-19	12	11/02/16	--	50.5	48 - 50	Biosparge
		BSP-20	12	11/01/16	--	50.5	48 - 50	Biosparge
		RW-19	13	06/30/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-20	13	06/29/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-21	13	06/30/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-22	13	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-23	13	06/30/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-24	13	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-25	13	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-26	13	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-27	13	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-28	13	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-29	13	06/29/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-30	13	06/27/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-31	13	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-32	13	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
RW-33	13	06/29/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge		
RW-34	13	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge		
Southern Area	Former Truck Fueling Area and Adjacent Water Tank Area	RW-39	10	11/15/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge
		RW-40	10	11/15/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-41	10	11/14/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-42	10	11/14/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-43	10	11/14/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-44	10	11/13/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-45	10	11/13/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-46	10	11/13/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		VEW-31		08/03/04	75.10	15	5 - 15	SVE
		VEW-38	12	11/02/16	--	30.5	20 - 30	SVE
		VEW-39	12	11/03/16	--	30.5	20 - 30	SVE
		VEW-40	12	11/02/16	--	30.5	20 - 30	SVE
		VW-07	16	--	75.64	--	--	SVE
		VW-09	16	--	75.77	--	--	SVE
		VW-10		03/23/04	75.78	30.5	20 - 30	SVE
		VW-11		03/23/04	75.55	25	20 - 25	SVE
		VW-12		03/23/04	75.79	30.5	15 - 30	SVE
VW-13		03/23/04	75.42	29	25 - 29	SVE		
VW-14		03/23/04	75.89	28	15 - 28	SVE		
VW-15		04/14/04	75.45	30	20 - 30	SVE		
VW-16		04/14/04	75.29	30	20 - 30	SVE		

Legend/Notes :

ft msl = Feet above mean sea level
ft bgs = Feet below ground surface
AST = Aboveground storage tank
BSP = Biosparge
BS = Biosparge
HW = Horizontal Well
GW/GWE = Groundwater extraction
RTF = Recovery Total Fluids
RW = Recovery Well
SP = Sparge
SVE = Soil vapor extraction

TABLE 1
Remediation Well Summary
 DFSP Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Location	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
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TF = Total fluid

TFE = Total fluid extraction

TFB = Total fluids biosparge

TFR = Total fluids recovery

VW/VEW = Vapor extraction well

-- = Information not available

1 = Also referred to as TF-24.

2 = Replaced abandoned well GW-14 per SGI's March 14, 2017 *Well Replacement Report and Work Plan*.

3 = Located during field reconnaissance work conducted on September 21, 2016 but determined to likely have silt at the bottom of the casing since the measured total depth was several feet higher than the construction well depth.

4 = Located during field reconnaissance work conducted on September 21, 2016 but determined to be inaccessible.

5 = Abandoned on December 29, 2014 (replacement pending per SGI's March 14, 2017 *Well Replacement Report and Work Plan*).

6 = Abandoned on December 30, 2014 (replacement pending per SGI's March 14, 2017 *Well Replacement Report and Work Plan*).

7 = Abandoned on January 5, 2015 (replacement pending per SGI's March 14, 2017 *Well Replacement Report and Work Plan*).

8 = Abandoned on December 31, 2014 (replacement pending per SGI's March 14, 2017 *Well Replacement Report and Work Plan*).

9 = Also referred to as "old TF-24" or "former TF-24".

10 = Recently installed per SGI's July 11, 2018 *Well Installation Completion Report*.

11 = Abandoned on November 16, 2017.

12 = Recently installed per SGI's March 14, 2017 *Well Replacement Report and Work Plan*.

13 = Recently installed per SGI's June 30, 2017 *Remediation Well Installation Update Report*.

14 = Well installed by Government Technology Services in September 1992; exact date unknown.

15 = Well installed by Parsons in October 1999; exact date unknown.

16 = Well installation date unknown.

17 = Confirmed to be inoperable in October 2017 (well plugged)..

18 = Well abandoned in-place on 6/7/19 and 6/10/19 and replaced with new horizontal wells HW-8 and HW-9

19 = Total well length is 340-feet for horizontal well HW-8 and 500-feet for HW-9.

TABLE 2A
Groundwater Extraction and Treatment System Operations Summary - October
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	GW-2 Totalizer Reading (gallons)	GW-13 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from North-East Area (gallons)	Groundwater Extracted from North-West Area (gallons)	Discharge Totalizer Reading (gallons)	Groundwater Extracted and Treated Per Day (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
10/1/19	Off line	1	314,397	136,007	607,406	867,299	1,474,705	450,404	1,001,681	0	--	9,946
10/2/19	Off line		314,397	136,007	607,406	867,662	1,475,068	450,404	1,001,681	0	--	9,946
10/3/19	Off line		314,397	136,007	607,406	868,026	1,475,432	450,404	1,001,681	0	--	9,946
10/4/19	Off line		314,397	136,007	607,406	868,389	1,475,795	450,404	1,001,682	0	--	9,946
10/5/19	Off line		314,397	136,007	607,406	868,752	1,476,158	450,404	1,001,682	0	--	9,946
10/6/19	Off line		314,397	136,007	607,406	869,116	1,476,522	450,404	1,001,682	0	--	9,946
10/7/19	Technician	2	314,397	136,007	607,406	869,260	1,476,666	450,404	1,001,682	0	--	9,946
10/8/19	*		314,420	132,680	607,438	869,359	1,476,796	447,100	1,001,962	280	--	9,946
10/9/19	*		314,442	129,354	607,469	869,457	1,476,927	443,797	1,002,241	280	--	9,946
10/10/19	Technician		314,465	126,097	607,500	869,554	1,477,054	440,562	1,002,515	274	--	9,946
10/11/19	*		314,586	126,780	607,854	871,251	1,479,106	441,366	1,005,529	3,014	--	9,946
10/12/19	*		314,708	127,463	608,209	872,948	1,481,157	442,171	1,008,543	3,014	--	9,946
10/13/19	*		314,829	128,146	608,563	874,645	1,483,208	442,975	1,011,557	3,014	--	9,946
10/14/19	*		314,951	128,829	608,918	876,342	1,485,260	443,780	1,014,571	3,014	--	9,946
10/15/19	*		315,072	129,512	609,272	878,039	1,487,311	444,584	1,017,585	3,014	--	9,946
10/16/19	*		315,194	130,195	609,626	879,736	1,489,363	445,389	1,020,599	3,014	--	9,946
10/17/19	*		315,315	130,878	609,981	881,433	1,491,414	446,193	1,023,613	3,014	--	9,946
10/18/19	*		315,437	131,561	610,335	883,130	1,493,465	446,998	1,026,627	3,014	--	9,946
10/19/19	*		315,559	132,244	610,690	884,827	1,495,517	447,802	1,029,642	3,014	--	9,946
10/20/19	*		315,680	132,927	611,044	886,524	1,497,568	448,607	1,032,656	3,014	--	9,946
10/21/19	*		315,802	133,610	611,398	888,221	1,499,620	449,411	1,035,670	3,014	--	9,946
10/22/19	*		315,923	134,293	611,753	889,918	1,501,671	450,216	1,038,684	3,014	--	9,946
10/23/19	*		316,045	134,976	612,107	891,615	1,503,722	451,020	1,041,698	3,014	--	9,946
10/24/19	*		316,166	135,659	612,462	893,312	1,505,774	451,825	1,044,712	3,014	--	9,946
10/25/19	*		316,288	136,341	612,816	895,009	1,507,825	452,629	1,047,726	3,014	--	9,946
10/26/19	*		316,410	137,024	613,170	896,706	1,509,877	453,434	1,050,740	3,014	--	9,946
10/27/19	*		316,531	137,707	613,525	898,403	1,511,928	454,238	1,053,754	3,014	--	9,946
10/28/19	*		316,653	138,390	613,879	900,100	1,513,979	455,043	1,056,768	3,014	--	9,946
10/29/19	*		316,774	139,073	614,234	901,797	1,516,031	455,848	1,059,782	3,014	--	9,946
10/30/19	*		316,896	139,756	614,588	903,494	1,518,082	456,652	1,062,796	3,014	--	9,946
10/31/19	*		317,017	140,439	614,942	905,191	1,520,134	457,457	1,065,810	3,014	--	9,946

Cumulative Groundwater Discharged by the GWETS to Date (gallons)							
Period	October	Quarter 1, 2019	Quarter 2, 2019	Quarter 3, 2019	Quarter 4, 2019	2019 to Date	April 1996 to Date
Volume	67,143	126,436	0	--	64,129	126,436	79,478,517

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	October	Quarter 4 to Date	April 1996 to Date
Mass	0.02	0.02	9,945.9

$$\text{Liquid-Phase DRO Mass [lb]} = \left(\text{Conc.} \left[\frac{\mu\text{g}}{\text{L}} \right] \right) \cdot \left(\frac{3.785 \text{ L}}{\text{gal}} \right) \cdot \left(\frac{1 \text{ g}}{1,000,000 \mu\text{g}} \right) \cdot \left(\frac{1 \text{ lb}}{453.59 \text{ g}} \right) \cdot (\text{Volume [gal]})$$

Legend / Notes:

1 = GWETS off-line the entire month pending approval of the sewer discharge permit by the Los Angeles County (LACSD) Sanitation District.
 2 = System restart under LACSD permit no. 22453. Sampling requirements begin January 1, 2020.
 Groundwater extraction wells on line this month: GW-2, GW-13, GW-16, and GW-16.
 * = Operational values interpolated from chart recorder data or previous monitoring event.

GWETS = Groundwater extraction and treatment system
 lb = Pounds
 ug/L - Micrograms per liter
 DRO = Diesel range organics
 A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit used) from sample collected this month.
 -- = Not applicable

TABLE 2B
Groundwater Extraction and Treatment System Operations Summary - November
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	GW-2 Totalizer Reading (gallons)	GW-13 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from North-East Area (gallons)	Groundwater Extracted from North-West Area (gallons)	Discharge Totalizer Reading (gallons)	Groundwater Extracted and Treated Per Day (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
11/1/19	*		317,139	141,122	615,297	906,888	1,522,185	458,261	1,068,824	0	--	9,946
11/2/19	*		317,260	141,805	615,651	908,585	1,524,236	459,066	1,071,838	3,014	--	9,946
11/3/19	*		317,382	142,488	616,006	910,282	1,526,288	459,870	1,074,852	3,014	--	9,946
11/4/19	*		317,504	143,171	616,360	911,979	1,528,339	460,675	1,077,866	3,014	--	9,946
11/5/19	*		317,625	143,854	616,714	913,676	1,530,391	461,479	1,080,880	3,014	--	9,946
11/6/19	*		317,747	144,537	617,069	915,373	1,532,442	462,284	1,083,895	3,014	--	9,946
11/7/19	*		317,868	145,220	617,423	917,070	1,534,493	463,088	1,086,909	3,014	--	9,946
11/8/19	*		317,990	145,903	617,778	918,767	1,536,545	463,893	1,089,923	3,014	--	9,946
11/9/19	*		318,111	146,586	618,132	920,464	1,538,596	464,697	1,092,937	3,014	--	9,946
11/10/19	*		318,233	147,269	618,486	922,161	1,540,648	465,502	1,095,951	3,014	--	9,946
11/11/19	*		318,355	147,952	618,841	923,858	1,542,699	466,306	1,098,965	3,014	--	9,946
11/12/19	*		318,476	148,635	619,195	925,571	1,544,750	467,111	1,101,979	3,014	--	9,946
11/13/19	*		318,598	149,317	619,550	927,284	1,546,802	467,915	1,104,993	3,014	--	9,946
11/14/19	*		318,719	150,000	619,904	928,997	1,548,853	468,720	1,108,007	3,014	--	9,946
11/15/19	Technician		318,854	150,755	620,295	930,823	1,551,118	469,608	1,111,335	3,328	--	9,946
11/16/19	*		319,363	151,987	620,363	933,993	1,554,356	471,350	1,116,641	5,306	--	9,946
11/17/19	*		319,872	153,220	620,431	937,163	1,557,594	473,092	1,121,948	5,306	--	9,946
11/18/19	*		320,381	154,452	620,499	940,332	1,560,831	474,833	1,127,254	5,306	--	9,946
11/19/19	*		320,891	155,685	620,566	943,502	1,564,069	476,575	1,132,561	5,306	--	9,946
11/20/19	Technician		321,358	156,815	620,629	946,677	1,567,307	478,317	1,137,868	4,864	--	9,946
11/21/19	*		321,362	157,662	620,789	948,611	1,569,400	479,024	1,140,540	3,115	--	9,946
11/22/19	*		321,366	158,510	620,948	950,815	1,571,763	479,876	1,143,655	3,115	--	9,946
11/23/19	*		321,370	159,358	621,108	953,018	1,574,127	480,729	1,146,769	3,115	--	9,946
11/24/19	*		321,375	160,206	621,268	955,222	1,576,490	481,581	1,149,884	3,115	--	9,946
11/25/19	*		321,379	161,054	621,428	957,425	1,578,854	482,433	1,152,999	3,115	--	9,946
11/26/19	*		321,383	161,902	621,588	959,629	1,581,217	483,285	1,156,114	3,115	--	9,946
11/27/19	*		321,388	162,750	621,748	961,832	1,583,581	484,138	1,159,228	3,115	--	9,946
11/28/19	*		321,392	163,598	621,908	964,036	1,585,944	484,990	1,162,343	3,115	--	9,946
11/29/19	*		321,396	164,446	622,068	966,239	1,588,308	485,842	1,165,458	3,115	--	9,946
11/30/19	*		321,400	165,294	622,228	968,443	1,590,671	486,694	1,168,573	3,115	--	9,946

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	November	Quarter 1, 2019	Quarter 2, 2019	Quarter 3, 2019	Quarter 4, 2019	2019 to Date	April 1996 to Date
Volume	102,762	126,436	0	--	166,892	126,436	79,581,280

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	November	Quarter 4 to Date	April 1996 to Date
Mass	0.02	0.04	9,945.9

$$Liquid-Phase\ DRO\ Mass\ [lb] = \left(Conc. \left[\frac{\mu g}{L} \right] \right) \cdot \left(\frac{3.785\ L}{gal} \right) \cdot \left(\frac{1\ g}{1,000,000\ \mu g} \right) \cdot \left(\frac{1\ lb}{453.59\ g} \right) \cdot (Volume\ [gal])$$

Legend / Notes:

1 = GWETS off-line the entire month pending approval of the sewer discharge permit by the Los Angeles County Sanitation District.

Groundwater extraction wells on line this month: GW-2, GW-13, GW-16, and GW-16.

* = Operational values interpolated from chart recorder data or previous monitoring event.

GWETS = Groundwater extraction and treatment system

µg/L - Micrograms per liter

A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit used) from sample collected this month.

-- = Not applicable

lb = Pounds

DRO = Diesel range organics

TABLE 2C
Groundwater Extraction and Treatment System Operations Summary - December
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	GW-2 Totalizer Reading (gallons)	GW-13 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from North-East Area (gallons)	Groundwater Extracted from North-West Area (gallons)	Discharge Totalizer Reading (gallons)	Groundwater Extracted and Treated Per Day (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
12/1/19	*		321,405	166,142	622,388	970,646	1,593,035	487,546	1,171,687	3,115	--	9,946
12/2/19	*		321,409	166,990	622,548	972,850	1,595,398	488,399	1,174,802	3,115	--	9,946
12/3/19	Technician		321,413	167,867	622,714	975,130	1,597,844	489,280	1,178,025	3,223	--	9,946
12/4/19	*		321,413	169,094	622,965	978,199	1,601,164	490,507	1,182,231	4,206	--	9,946
12/5/19	*		321,413	170,321	623,216	981,268	1,604,484	491,734	1,186,436	4,206	--	9,946
12/6/19	*		321,413	171,547	623,467	984,337	1,607,804	492,961	1,190,642	4,206	--	9,946
12/7/19	*		321,413	172,774	623,718	987,406	1,611,124	494,188	1,194,848	4,206	--	9,946
12/8/19	*		321,413	174,001	623,969	990,475	1,614,444	495,414	1,199,054	4,206	--	9,946
12/9/19	*		321,413	175,228	624,220	993,545	1,617,765	496,641	1,203,259	4,206	--	9,946
12/10/19	*		321,413	176,455	624,471	996,614	1,621,085	497,868	1,207,465	4,206	--	9,946
12/11/19	Technician		321,413	177,690	624,724	999,704	1,624,428	499,103	1,211,700	4,235	--	9,946
12/12/19	*		321,413	178,840	625,715	1,001,674	1,627,389	500,253	1,216,664	4,964	--	9,946
12/13/19	*		321,413	179,990	626,706	1,003,645	1,630,351	501,403	1,221,628	4,964	--	9,946
12/14/19	*		321,413	181,140	627,697	1,005,615	1,633,312	502,553	1,226,592	4,964	--	9,946
12/15/19	*		321,413	182,290	628,688	1,007,586	1,636,274	503,703	1,231,556	4,964	--	9,946
12/16/19	Technician		321,413	183,584	629,803	1,009,803	1,639,606	504,997	1,237,140	5,584	--	9,946
12/17/19	*		293,114	113,804	630,693	796,262	1,643,607	506,179	1,242,437	5,297	--	9,946
12/18/19	*		321,413	185,947	631,583	798,740	1,647,609	507,361	1,247,735	5,297	--	9,946
12/19/19	*		321,413	187,129	632,473	1,019,139	1,651,611	508,543	1,253,032	5,297	--	9,946
12/20/19	*		321,413	188,311	633,362	1,022,251	1,655,613	509,725	1,258,330	5,297	--	9,946
12/21/19	*		321,413	189,493	634,252	1,025,363	1,659,615	510,906	1,263,627	5,297	--	9,946
12/22/19	*		321,413	190,675	635,142	1,028,475	1,663,617	512,088	1,268,925	5,297	--	9,946
12/23/19	Technician		321,413	191,722	635,930	1,031,230	1,667,160	513,135	1,273,615	4,690	--	9,946
12/24/19	*		321,413	192,891	636,844	1,034,329	1,671,173	514,304	1,278,546	4,931	--	9,946
12/25/19	*		321,413	194,060	637,758	1,037,429	1,675,186	515,474	1,283,476	4,931	--	9,946
12/26/19	*		321,413	195,230	638,672	1,040,528	1,679,200	516,643	1,288,407	4,931	--	9,946
12/27/19	*		321,413	196,399	639,586	1,043,627	1,683,213	517,813	1,293,338	4,931	--	9,946
12/28/19	*		321,413	197,569	640,499	1,046,727	1,687,226	518,982	1,298,268	4,931	--	9,946
12/29/19	*		321,413	198,738	641,413	1,049,826	1,691,239	520,151	1,303,199	4,931	--	9,946
12/30/19	Technician		321,413	199,879	642,305	1,052,850	1,695,155	521,292	1,308,010	4,811	--	9,946
12/31/19	*		321,413	201,021	643,463	1,053,412	1,696,875	522,434	1,310,578	2,568	--	9,946

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	December	Quarter 1, 2019	Quarter 2, 2019	Quarter 3, 2019	Quarter 4, 2019	2019 to Date	April 1996 to Date
Volume	142,005	126,436	0	--	308,897	126,436	79,723,285

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	December	Quarter 4 to Date	April 1996 to Date
Mass	0.03	0.08	9,946.0

$$Liquid-Phase\ DRO\ Mass\ [lb] = \left(Conc. \left[\frac{\mu g}{L} \right] \right) \cdot \left(\frac{3.785\ L}{gal} \right) \cdot \left(\frac{1\ g}{1,000,000\ \mu g} \right) \cdot \left(\frac{1\ lb}{453.59\ g} \right) \cdot (Volume\ [gal])$$

Legend / Notes:

1 = GWETS off-line the entire month pending approval of the sewer discharge permit by the Los Angeles County Sanitation District.
 Groundwater extraction wells on line this month: GW-2, GW-13, GW-16, and GW-16.
 * = Operational values interpolated from chart recorder data or previous monitoring event.

GWETS = Groundwater extraction and treatment system
 μg/L - Micrograms per liter
 A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit used) from sample collected this month.
 -- = Not applicable
 lb = Pounds
 DRO = Diesel range organics

TABLE 3A
Carbon Vapor Extraction System Operations Summary - October
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow ^A (scfm)	VES Manifold Vacuum (in. Hg)	Carbon Inlet Temperature (°F)	Laboratory Process Concentration (ppmv)	Field Process Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
10/01/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/02/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/03/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/04/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/05/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/06/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/07/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/08/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/09/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/10/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/11/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/12/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/13/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/14/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/15/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/16/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/17/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/18/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/19/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/20/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/21/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/22/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/23/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/24/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/25/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/26/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/27/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/28/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/29/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
10/30/19	Off line	2,3	56,575	NA	--	--	--	--	--	2,982,775
10/31/19	Off line	3	56,575	NA	--	--	--	--	--	2,982,775

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	October	Quarter 4 to Date	April 1996 to Date
Mass	0	0	2,982,775

$$Vapor-Phase TPHg Mass [lb] = \left(Conc. \left[\frac{\mu g}{L} \right] \right) \left(\frac{28.32 L}{ft^3} \right) \left(\frac{1 g}{1,000,000 \mu g} \right) \left(\frac{1 lb}{453.59 g} \right) \cdot (Flow [scfm]) \cdot \left(\frac{60 min}{hr} \right) \cdot (OpTime [hrs])$$

Legend / Notes:

- 1 = System shutdown pending replacement of Blower.
- 2 = System restart after installation of new blower.
- 3 = System shutdown pending replacement of effluent tubing.

* = Operational values interpolated from chart recorder data or previous monitoring event.
 -- = Not applicable or not measured

- VES = Soil vapor extraction system
- in. Hg = Inches of mercury
- ppmv = Parts per million by volume
- scfm = Standard cubic feet per minute
- °F = Degrees Fahrenheit
- lb = Pounds
- A = Reading from chart recorder.
- B = Concentrations obtained with a calibrated organic vapor analyzer.
- C = Concentrations correlated to laboratory data and expressed as hexane.
- D = Hydrocarbon removal is calculated using analytical laboratory result for GRO (if not detected, half the detection limit is used).

TABLE 3B
Carbon Vapor Extraction System Operations Summary - November
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow ^A (scfm)	VES Manifold Vacuum (in. Hg)	Carbon Inlet Temperature (°F)	Laboratory Process Concentration (ppmv)	Field Process Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
11/01/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
11/02/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
11/03/19	Off line	1	56,575	NA	--	--	--	--	--	2,982,775
11/04/19	Off line	2,3	56,575	NA	--	--	--	--	--	2,982,775
11/05/19	Off line	3	56,575	NA	--	--	--	--	--	2,982,775
11/06/19	Off line	3	56,575	NA	--	--	--	--	--	2,982,775
11/07/19	Off line	3	56,575	NA	--	--	--	--	--	2,982,775
11/08/19	Off line	3	56,575	NA	--	--	--	--	--	2,982,775
11/09/19	Off line	3	56,575	NA	--	--	--	--	--	2,982,775
11/10/19	Off line	3	56,575	NA	--	--	--	--	--	2,982,775
11/11/19	Off line	3	56,575	NA	--	--	--	--	--	2,982,775
11/12/19	Off line	3	56,575	NA	--	--	--	--	--	2,982,775
11/13/19	Off line	3	56,575	NA	--	--	--	--	--	2,982,775
11/14/19	Off line	3	56,575	NA	--	--	--	--	--	2,982,775
11/15/19	Off line	3	56,575	NA	--	--	--	--	--	2,982,775
11/16/19	Off line	3	56,575	NA	--	--	--	--	--	2,982,775
11/17/19	Off line	3	56,575	NA	--	--	--	--	--	2,982,775
11/18/19	Off line	3	56,575	NA	--	--	--	--	--	2,982,775
11/19/19	Off line	3	56,575	NA	--	--	--	--	--	2,982,775
11/20/19	Off line	3	56,575	NA	--	--	--	--	--	2,982,775
11/21/19	Technician	4	56,745	580	5	109	--	--	--	2,982,838
11/22/19	*		56,769	580	--	--	--	--	--	2,982,847
11/23/19	*		56,792	580	--	--	--	--	--	2,982,856
11/24/19	*		56,815	580	--	--	--	--	--	2,982,864
11/25/19	Technician	5	56,839	560	5	102	38	164	5.6	2,982,873
11/26/19	*		56,826	560	--	--	--	--	--	2,982,868
11/27/19	*		56,842	560	--	--	--	--	--	2,982,874
11/28/19	Off line	6	56,842	NA	--	--	--	--	--	2,982,874
11/29/19	Off line	6	56,842	NA	--	--	--	--	--	2,982,874
11/30/19	Off line	6	56,842	NA	--	--	--	--	--	2,982,874

Cumulative Mass TPHg Removed by the VES ^A (lb)			
Period	November	Quarter 4 to Date	April 1996 to Date
Mass	98	98	2,982,874

$$Vapor-Phase\ TPHg\ Mass\ [lb] = \left(Conc. \left[\frac{\mu g}{L} \right] \right) \cdot \left(\frac{28.32\ L}{ft^3} \right) \cdot \left(\frac{1\ g}{1,000,000\ \mu g} \right) \cdot \left(\frac{1\ lb}{453.59\ g} \right) \cdot (Flow\ [scfm]) \cdot \left(\frac{60\ min}{hr} \right) \cdot (OpTime\ [hrs])$$

Legend / Notes:

- 1 = System shutdown pending replacement of effluent tubing.
- 2 = System restart after installation of new effluent tubing.
- 3 = System shutdown due to leaking hose from GAC-1 to GAC-2.
- 4 = System restart after replacement of leaking hose from GAC-1 to GAC-2.
- 5 = Collected monthly influent, after GAC-1, after GAC-2, and effluent samples for laboratory analysis.
- 6 = System shutdown due to power failure.
- = Not applicable or not measured
- * = Operational values interpolated from chart recorder data or previous monitoring event.

- VES = Soil vapor extraction system
- scfm = Standard cubic feet per minute
- A = Reading from chart recorder.
- B = Concentrations obtained with a calibrated organic vapor analyzer.
- C = Concentrations correlated to laboratory data and expressed as hexane.
- D = Hydrocarbon removal is calculated using analytical laboratory results for GRO (if not detected, half the detection limit is used).
- in. Hg = Inches of mercury
- °F = Degrees Fahrenheit
- ppmv = Parts per million by volume
- lb = Pounds

TABLE 3C
Carbon Vapor Extraction System Operations Summary - December
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow ^A (scfm)	VES Manifold Vacuum (in. Hg)	Carbon Inlet Temperature (°F)	Laboratory Process Concentration (ppmv)	Field Process Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
12/01/19	Off line	1	56,842	NA	--	--	--	--	--	2,982,874
12/02/19	Technician	2	56,922	563	3	110	--	--	--	2,982,879
12/03/19	*		56,946	563	--	--	--	--	--	2,982,880
12/04/19	*		56,970	563	--	--	--	--	--	2,982,882
12/05/19	*		56,994	563	--	--	--	--	--	2,982,883
12/06/19	*		57,018	563	--	--	--	--	--	2,982,884
12/07/19	*		57,042	563	--	--	--	--	--	2,982,886
12/08/19	*		57,066	563	--	--	--	--	--	2,982,887
12/09/19	*		57,090	563	--	--	--	--	--	2,982,889
12/10/19	*		57,114	563	--	--	--	--	--	2,982,890
12/11/19	Technician		57,138	560	3	105	--	103	3.4	2,982,892
12/12/19	*		57,161	560	--	--	--	--	--	2,982,893
12/13/19	*		57,185	560	--	--	--	--	--	2,982,895
12/14/19	*		57,208	560	--	--	--	--	--	2,982,896
12/15/19	*		57,232	560	--	--	--	--	--	2,982,897
12/16/19	Technician		57,255	557	3	101	--	75	4.0	2,982,899
12/17/19	*		57,279	557	--	--	--	--	--	2,982,900
12/18/19	*		57,303	557	--	--	--	--	--	2,982,902
12/19/19	*		57,327	557	--	--	--	--	--	2,982,903
12/20/19	*		57,350	557	--	--	--	--	--	2,982,905
12/21/19	*		57,374	557	--	--	--	--	--	2,982,906
12/22/19	*		57,398	557	--	--	--	--	--	2,982,908
12/23/19	Technician		57,422	525	4	90	--	59	0.0	2,982,909
12/24/19	*		57,433	525	--	--	--	--	--	2,982,910
12/25/19	*		57,443	525	--	--	--	--	--	2,982,910
12/26/19	*		57,454	525	--	--	--	--	--	2,982,911
12/27/19	*		57,465	525	--	--	--	--	--	2,982,911
12/28/19	*		57,476	525	--	--	--	--	--	2,982,912
12/29/19	*		57,486	525	--	--	--	--	--	2,982,913
12/30/19	Off line	3, 4	57,486	524	4	91	6.3	39	13.4	2,982,913

Cumulative Mass TPHg Removed by the VES ^A (lb)			
Period	December	Quarter 4 to Date	April 1996 to Date
Mass	39	137	2,982,913

$$Vapor-Phase\ TPHg\ Mass\ [lb] = \left(Conc. \left[\frac{\mu g}{L} \right] \right) \cdot \left(\frac{28.32\ L}{ft^3} \right) \cdot \left(\frac{1\ g}{1,000,000\ \mu g} \right) \cdot \left(\frac{1\ lb}{453.59\ g} \right) \cdot (Flow\ [scfm]) \cdot \left(\frac{60\ min}{hr} \right) \cdot (OpTime\ [hrs])$$

Legend / Notes :

- 1 = System shutdown due to power failure.
- 2 = System restart.
- 3 = Collected monthly influent, after GAC-1, after GAC-2, and effluent samples for laboratory analysis.
- 4 = System shutdown pending carbon changeout.

-- = Not applicable or not measured

* = Operational values interpolated from chart recorder data or previous monitoring event.

Vapor extraction wells on line this month: HW-1, HW-5, HW--7

- VES = Soil vapor extraction system
- in. Hg = Inches of mercury
- ppmv = Parts per million by volume
- scfm = Standard cubic feet per minute
- °F = Degrees Fahrenheit
- lb = Pounds
- A = Reading from chart recorder.
- B = Concentrations obtained with a calibrated organic vapor analyzer.
- C = Concentrations correlated to laboratory data and expressed as hexane.
- D = Hydrocarbon removal is calculated using analytical laboratory results for GRO (if not detected, half the detection limit is used)

TABLE 4A
Thermal Oxidizer Vapor Extraction System Operations Summary - October
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow ^A (scfm)	VES Manifold Vacuum (in. WC)	Oxidizer Inlet Temperature TE1 Excess Controller (°F)	Laboratory Process GRO Concentration (ppmv)	Field Inlet Process Oxidizer Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
10/01/19	*		2,067	994	--	--	--	--	--	71,898
10/02/19	*		2,090	994	--	--	--	--	--	73,134
10/03/19	Technician		2,114	867	64	1,442	--	1,898	29	74,211
10/04/19	*		2,138	867	--	--	--	--	--	75,302
10/05/19	*		2,162	867	--	--	--	--	--	76,394
10/06/19	*		2,186	867	--	--	--	--	--	77,485
10/07/19	*		2,210	867	--	--	--	--	--	78,576
10/08/19	*		2,234	867	--	--	--	--	--	79,668
10/09/19	Technician		2,258	879	68	1454	--	1,508	18	80,774
10/10/19	*		2,282	879	--	--	--	--	--	81,896
10/11/19	*		2,307	879	--	--	--	--	--	83,018
10/12/19	*		2,331	879	--	--	--	--	--	84,139
10/13/19	*		2,355	879	--	--	--	--	--	85,261
10/14/19	*		2,380	879	--	--	--	--	--	86,383
10/15/19	*		2,404	879	--	--	--	--	--	87,505
10/16/19	*		2,428	879	--	--	--	--	--	88,626
10/17/19	*		2,453	879	--	--	--	--	--	89,748
10/18/19	Technician	1	2,477	NA	NA	NA	NA	NA	NA	NA
10/19/19	Offline	1	NA	NA	NA	NA	NA	NA	NA	NA
10/20/19	Offline	1	NA	NA	NA	NA	NA	NA	NA	NA
10/21/19	Offline	1	NA	NA	NA	NA	NA	NA	NA	NA
10/22/19	Offline	1	NA	NA	NA	NA	NA	NA	NA	NA
10/23/19	Offline	1	NA	NA	NA	NA	NA	NA	NA	NA
10/24/19	Offline	1	NA	NA	NA	NA	NA	NA	NA	NA
10/25/19	Offline	1	NA	NA	NA	NA	NA	NA	NA	NA
10/26/19	Offline	1	NA	NA	NA	NA	NA	NA	NA	NA
10/27/19	Offline	1	NA	NA	NA	NA	NA	NA	NA	NA
10/28/19	Offline	1	NA	NA	NA	NA	NA	NA	NA	NA
10/29/19	Offline	1	NA	NA	NA	NA	NA	NA	NA	NA
10/30/19	Technician	2	2,477	NA	NA	NA	NA	NA	NA	NA
10/31/19	Technician	3	2,497	847	56	1,450	3,100	2,176	24	90,637

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	October	Quarter 4 to Date	January 2018 to Date
Mass	28,622.5	28,622.5	98,478

$$Vapor-Phase\ TPHg\ Mass\ [lb] = \left(Conc. \left[\frac{\mu g}{L} \right] \right) \cdot \left(\frac{28.32\ L}{ft^3} \right) \cdot \left(\frac{1\ g}{1,000,000\ \mu g} \right) \cdot \left(\frac{1\ lb}{453.59\ g} \right) \cdot (Flow\ [scfm]) \cdot \left(\frac{60\ min}{hr} \right) \cdot (OpTime\ [hrs])$$

Legend / Notes:

- 1 = Thermal oxidizer manually shut down for for Annual Groundwater Sampling event.
- 2 = Thermal oxidizer restarted.
- 3 = Collected monthly influent and effluent samples for laboratory analysis.

System operating under SCAQMD Permit #G52288

Vapor extraction wells on line this month (grouped by location):

Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15, TFR-16), (TRF-5, TFR-7, TFR-9, TFR-10, TFR-12); Eastern Area - (RW-1, RW-11, RW-18, RW-13, RW-4, RW-5, RW-9, RW-10, TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Southern Area - (RW-23, RW-30, RW-31, RW-32, VEW-40, RW-26, RW-28, RW-24, RW-27, RW-33, RW-43, RW-22, RW-29, RW-45, RW-35, RW-40, RW-44, RW-36, RW-37, RW-41, RW-42, RW-47, RW-48, RW-49, RW-50).

- VES = Soil vapor extraction system
- scfm = Standard cubic feet per minute
- ppmv = Parts per million by volume
- in. Hg = Inches of mercury
- °F = Degrees Fahrenheit
- lb = Pounds
- VECV = Vapor extraction control vault

- A = Reading measured using Dwyer DS-300 flow sensor.
- B = Concentrations obtained with a calibrated organic vapor analyzer.
- C = Concentrations correlated to laboratory data and expressed as hexane.
- D = Hydrocarbon removal is calculated using analytical laboratory result for GRO (if not detected, half the detection limit is used) from samples collected this month (laboratory report attached).

- NA = Not available
- = Not applicable or not measured
- * = Operational values interpolated from chart recorder data or previous monitoring event.

TABLE 4B
Thermal Oxidizer Vapor Extraction System Operations Summary - November
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow ^A (scfm)	VES Manifold Vacuum (in. WC)	Oxidizer Inlet Temperature TE1 Excess Controller (°F)	Laboratory Process GRO Concentration (ppmv)	Field Inlet Process Oxidizer Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
11/01/19	*		2,596	847	--	--	--	--	--	94,706
11/02/19	*		2,606	847	--	--	--	--	--	95,113
11/03/19	*		2,615	847	--	--	--	--	--	95,520
11/04/19	*		2,625	847	--	--	--	--	--	95,927
11/05/19	*		2,635	847	--	--	--	--	--	96,334
11/06/19	Technician		2,645	894	58	1,452	--	1,540	18	96,764
11/07/19	*		2,669	894	--	--	--	--	--	97,823
11/08/19	*		2,694	894	--	--	--	--	--	98,883
11/09/19	*		2,718	894	--	--	--	--	--	99,942
11/10/19	*		2,742	894	--	--	--	--	--	101,001
11/11/19	*		2,767	894	--	--	--	--	--	102,061
11/12/19	Technician		2,791	927	58	1,452	--	1,470	23	103,159
11/13/19	*		2,814	927	--	--	--	--	--	104,203
11/14/19	*		2,837	927	--	--	--	--	--	105,247
11/15/19	*		2,860	927	--	--	--	--	--	106,291
11/16/19	*		2,884	927	--	--	--	--	--	107,335
11/17/19	*		2,907	927	--	--	--	--	--	108,379
11/18/19	*		2,930	927	--	--	--	--	--	109,423
11/19/19	*		2,953	927	--	--	--	--	--	110,467
11/20/19	Technician	1	2,976	764	58	1,463	2,800	1,290	24	111,328
11/21/19	*		2,995	764	--	--	--	--	--	112,020
11/22/19	*		3,013	764	--	--	--	--	--	112,712
11/23/19	*		3,032	764	--	--	--	--	--	113,404
11/24/19	*		3,050	764	--	--	--	--	--	114,096
11/25/19	Technician		3,069	830	58	1,445	--	1,670	29.5	114,848
11/26/19	*		3,080	830	--	--	--	--	--	115,304
11/27/19	*		3,092	830	--	--	--	--	--	115,760
11/28/19	Off	2	3,092	--	--	--	--	--	--	115,760
11/29/19	Off	2	3,092	--	--	--	--	--	--	115,760
11/30/19	Off	2	3,092	--	--	--	--	--	--	115,760

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	November	Quarter 4 to Date	January 2018 to Date
Mass	25,123.4	53,745.9	123,600.9

$$Vapor-Phase\ TPHg\ Mass\ [lb] = \left(Conc. \left[\frac{\mu g}{L} \right] \right) \cdot \left(\frac{28.32\ L}{ft^3} \right) \cdot \left(\frac{1\ g}{1,000,000\ \mu g} \right) \cdot \left(\frac{1\ lb}{453.59\ g} \right) \cdot (Flow\ [scfm]) \cdot \left(\frac{60\ min}{hr} \right) \cdot (OpTime\ [hrs])$$

Legend / Notes:

1 = Collected monthly influent and effluent samples for laboratory analysis.
 2 = System shut down due to system alarm.

VES = Soil vapor extraction system in. Hg = Inches of mercury
 scfm = Standard cubic feet per minute °F = Degrees Fahrenheit
 ppmv = Parts per million by volume lb = Pounds

System operating under SCAQMD Permit #G52288

Vapor extraction wells on line this month (grouped by location):

Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15, TFR-16), (TRF-5, TFR-7, TFR-9, TFR-10, TFR-12); Eastern Area - (RW-1, RW-11, RW-18, RW-13, RW-4, RW-5, RW-9, RW-10, TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Southern Area - (RW-23, RW-30, RW-31, RW-32, VEW-40, RW-26, RW-28, RW-24, RW-27, RW-33, RW-43, RW-22, RW-29, RW-45, RW-35, RW-40, RW-44, RW-36, RW-37, RW-41, RW-42, RW-47, RW-48, RW-49, RW-50).

A = Reading measured using Dwyer DS-300 flow sensor.
 B = Concentrations obtained with a calibrated organic vapor analyzer.
 C = Concentrations correlated to laboratory data and expressed as hexane.
 D = Hydrocarbon removal is calculated using analytical laboratory result for GRO (if not detected, half the detection limit is used) from samples collected this month (laboratory report attached).

NA = Not available
 -- = Not applicable or not measured
 * = Operational values interpolated from chart recorder data or previous monitoring event.

TABLE 4C
Thermal Oxidizer Vapor Extraction System Operations Summary - December
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow ^A (scfm)	VES Manifold Vacuum (in. WC)	Oxidizer Inlet Temperature TE1 Excess Controller (°F)	Laboratory Process GRO Concentration (ppmv)	Field Inlet Process Oxidizer Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
12/01/19	Off	1	3,137	--	--	--	--	--	--	115,760
12/02/19	Technician		3,148	908	58	1,454	--	1,724	20.9	116,297
12/03/19	*		3,168	908	--	--	--	--	--	117,250
12/04/19	*		3,188	908	--	--	--	--	--	118,202
12/05/19	Off		--	--	--	--	--	--	--	118,202
12/06/19	Technician	2	3,228	908	--	--	--	--	--	118,202
12/07/19	Off	1	--	--	--	--	--	--	--	118,202
12/08/19	Off	1	--	--	--	--	--	--	--	118,202
12/09/19	Technician	2	3,288	908	--	--	--	--	--	121,059
12/10/19	Off		--	--	--	--	--	--	--	121,059
12/11/19	Technician	1	3,328	845	60	1,453	--	1,450	25.7	122,832
12/12/19	*		3,329	845	--	--	--	--	--	122,854
12/13/19	Technician	2	3,329	845	--	--	--	--	--	122,876
12/14/19	*		3,351	845	--	--	--	--	--	123,866
12/15/19	*		3,374	845	--	--	--	--	--	124,856
12/16/19	Technician	3	3,396	785	58	1,454	3,000	1,566	25	125,775
12/17/19	*		3,420	785	--	--	--	--	--	126,769
12/18/19	*		3,444	785	--	--	--	--	--	127,763
12/19/19	*		3,468	785	--	--	--	--	--	128,757
12/20/19	*		3,493	785	--	--	--	--	--	129,751
12/21/19	*		3,517	785	--	--	--	--	--	130,745
12/22/19	*		3,541	785	--	--	--	--	--	131,739
12/23/19	Technician		3,565	840	58	1,456	--	1,260	22	132,803
12/24/19	*		3,590	840	--	--	--	--	--	133,885
12/25/19	*		3,614	840	--	--	--	--	--	134,968
12/26/19	*		3,639	840	--	--	--	--	--	136,050
12/27/19	*		3,663	840	--	--	--	--	--	137,133
12/28/19	*		3,688	840	--	--	--	--	--	138,215
12/29/19	*		3,712	840	--	--	--	--	--	139,298
12/30/19	Technician		3,737	817	64	1,452	--	1,274	28	140,350

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	December	Quarter 4 to Date	January 2018 to Date
Mass	24,590.4	78,336.3	148,191.3

$$Vapor-Phase\ TPHg\ Mass\ [lb] = \left(Conc. \left[\frac{\mu g}{L} \right] \right) \cdot \left(\frac{28.32\ L}{ft^3} \right) \cdot \left(\frac{1\ g}{1,000,000\ \mu g} \right) \cdot \left(\frac{1\ lb}{453.59\ g} \right) \cdot (Flow\ [scfm]) \cdot \left(\frac{60\ min}{hr} \right) \cdot (OpTime\ [hrs])$$

Legend / Notes:

- 1 = System shut down due to system alarm.
- 2 = System restart.
- 3 = Collected monthly influent and effluent samples for laboratory analysis.

System operating under SCAQMD Permit #G52288

Vapor extraction wells on line this month (grouped by location):

Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15, TFR-16), (TRF-5, TFR-7, TFR-9, TFR-10, TFR-12); Eastern Area - (RW-1, RW-11, RW-18, RW-13, RW-4, RW-5, RW-9, RW-10, TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Southern Area - (RW-23, RW-30, RW-31, RW-32, VEW-40, RW-26, RW-28, RW-24, RW-27, RW-33, RW-43, RW-22, RW-29, RW-45, RW-35, RW-40, RW-44, RW-36, RW-37, RW-41, RW-42, RW-47, RW-48, RW-49, RW-50).

- VES = Soil vapor extraction system
- scfm = Standard cubic feet per minute
- ppmv = Parts per million by volume
- in. Hg = Inches of mercury
- °F = Degrees Fahrenheit
- lb = Pounds

- A = Reading measured using Dwyer DS-300 flow sensor.
- B = Concentrations obtained with a calibrated organic vapor analyzer.
- C = Concentrations correlated to laboratory data and expressed as hexane.
- D = Hydrocarbon removal is calculated using analytical laboratory result for GRO (if not detected, half the detection limit is used) from samples collected this month (laboratory report attached).

- NA = Not available
- = Not applicable or not measured
- * = Operational values interpolated from chart recorder data or previous monitoring event.

TABLE 5A
Summary of LNAPL Removal in Well GMW-62 - Fourth Quarter 2019
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
10/02/19	--	34.55	--	0	0.3	0.0	141.5	968.3
10/30/19	--	35.03	--	0	1.0	0.1	141.6	969.3
11/13/19	--	35.27	--	0	1.3	0.2	141.8	970.6
11/20/19	--	34.72	--	0	1.0	0.1	141.8	970.3
12/10/19	--	34.81	--	0	0.6	0.1	141.9	971.2
12/17/19	--	35.25	--	0	0.8	0.1	141.9	971.1
Cumulative for the Reporting Period:				0	4.9	0.7	0.4	3.0
Cumulative Beginning January 2014^A:				112	207	29	142	971

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable

A = Cumulative LNAPL removed since January 2014. LNAPL removed prior to January 2014 can be found in previously submitted Remediation Progress Reports.

TABLE 5B
Summary of LNAPL Removal in Well GMW-68 - Fourth Quarter 2019
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
10/02/19	--	33.77	--	0	2.3	0.3	69	475
10/09/19	--	33.86	--	0	2.0	0.3	70	478
10/23/19	--	33.95	--	0	2.3	0.3	70	478
10/30/19	--	34.10	--	0	2.3	0.3	70	480
11/13/19	--	35.27	--	0	3.0	0.4	70	481
11/20/19	--	34.02	--	0	2.3	0.3	70	480
12/10/19	--	34.17	--	0	3.9	0.6	71	484
12/17/19	--	34.46	--	0	2.6	0.4	71	483
Cumulative for the Reporting Period:				0	21	3.0	1.1	7.4
Cumulative Beginning October 2016 ^A:				34	233	34	71	484

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable

A = Cumulative LNAPL removed since October 2016 following installation of well during July 2015 (no measureable product from July 2015 through February 2017).

TABLE 5C
Summary of LNAPL Removal in Well GMW-7 - Fourth Quarter 2019
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via, Pumping, Bailing and Socks ^A (pounds)
12/10/19	--	35.19	0.00	0	0.4	0.1	28	190
Cumulative for the Reporting Period:				0	0.4	0.1	0.1	0.4
Cumulative Beginning December 2014^A:				8.0	136	20	28	190

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable □

A = Cumulative LNAPL removed since December 2014. LNAPL removed prior to December 2014 can be found in previously submitted Remediation Progress Reports.

TABLE 5D
Summary of LNAPL Removal in Well TF-19 - Fourth Quarter 2019
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks ^A (pounds)
11/13/19	--	32.95	0.00	0	0.0	0.0	36	244
11/20/19	--	34.72	0.00	0	0.0	0.0	36	244
12/10/19	--	33.19	0.00	0	0.4	0.1	36	244
Cumulative for the Reporting Period:				0	0.4	0.1	0.1	0.4
Cumulative Beginning June 2015 ^A:				7	198	29	63	432

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable

A = Cumulative LNAPL removed since June 2015 (no measureable product from January 2014 to May 2015). LNAPL removed prior to January 2014 can be found in previously submitted Remediation Progress Reports.

TABLE 5E
Summary of LNAPL Removal in Well TFR-9 - Fourth Quarter 2019
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
--	No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2019							
Cumulative for the Reporting Period:				0	0	0	0	0
Cumulative Beginning October 2018 ^{A,B}:				150	0	0	150	1,026

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable □

A = Cumulative LNAPL removed since October 2018 following hookup of well to a newly installed controller.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of expanded product recovery system operations that began on October 8, 2018 (skimming from well TFR-9 initiated on October 8, 2018 but pump was manually shutdown on January 16, 2019 to allow for LNAPL recovery and resumed operating from February 7-27, 2019; Pump remained off-line through June 2019 based on regular gauging data showing little to no measureable product in the well).

TABLE 5F
Summary of LNAPL Removal in Well GMW-18 - Fourth Quarter 2019
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
--	No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2019							

Cumulative for the Reporting Period^B:	0	0	0	0	0
Cumulative Beginning March 2017^A:	101	76	11	112	768

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable □

A = Cumulative LNAPL removed since March 2017. LNAPL removed prior to March 2017 can be found in previously submitted Remediation Progress Reports.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of expanded product recovery system operations that began on October 8, 2018 (skimming from well GMW-18 initiated on October 8, 2018; pump manually shutdown on January 16, 2019 due to insufficient yield and remained off-line through June 2019).

TABLE 5G
Summary of LNAPL Removal in Well TFR-12 - Fourth Quarter 2019
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
--	No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2019							

Cumulative for the Reporting Period:	0	0	0	0	0	0
Cumulative Beginning April 2018 ^{A,B}:	282	0	0	0	0	0

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable □

A = Cumulative LNAPL removed since April 2018 following installation of well during December 2017.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (skimming from well TFR-12 initiated on April 23, 2018, and temporarily discontinued from September 5, 2018 to October 8, 2018 pending hookup to a new controller; Pump manually shutdown on March 11, 2019 due to insufficient yield and remained off-line through June 2019).

TABLE 5H
Summary of LNAPL Removal in Well TF-15 - Fourth Quarter 2019
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
--	No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2019							
Cumulative for the Reporting Period ^B:				0	0	0	0	0
Cumulative Beginning October 2016 ^A:				187	53	7.7	195	1,333

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable □

A = Cumulative LNAPL removed since October 2016. No LNAPL removed previously during 2016 or throughout 2015 due to excavation project (January 2015 - March 2017) inadvertently resulting in burial of well head which was located during October 2016. LNAPL removed prior to well head being buried can be found in previously submitted Remediation Progress Reports.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of expanded product recovery system operations that began on October 8, 2018 (skimming from well TF-15 initiated on October 8, 2018 but pump was manually shutdown on November 15, 2018 to allow for LNAPL recovery, and also operated from November 28, 2018 to March 11, 2019 and April 17, 2019 to May 2, 2019; Pump has otherwise remained off-line due to insufficient yield).

TABLE 5I
Summary of LNAPL Removal in Well TFR-15 - Fourth Quarter 2019
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
--	No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2019							
Cumulative for the Reporting Period:				0	0	0	0	0
Cumulative Beginning October 2018 ^{A,B}:				23	0	0	23	157

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable □

A = Cumulative LNAPL removed since October 2018 following hookup of well to a newly installed controller.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of expanded product recovery system operations that began on October 8, 2018 (skimming from well TFR-15 initiated on October 18, 2018 but pump was manually shutdown on November 15, 2018 to allow for LNAPL recovery with operations resuming from November 28, 2018 to December 7, 2018, and again from December 19, 2018 to February 27, 2019; Pump remained off-line through June 2019 due to insufficient yield).

TABLE 5J
Summary of LNAPL Removal in Well TF-16 - Fourth Quarter 2019
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
10/02/19	34.52	34.72	0.20	1.0	No Sock in Well	0	338	2,316

Cumulative for the Reporting Period:	1.0	0.0	0.0	1.0	6.8
Cumulative Beginning March 2017 - June 2019 ^B:	292	0.0	0.0	329	2,251
Cumulative Beginning October 2016 ^A:	333	36	5.2	338	2,316

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable □

A = Cumulative LNAPL removed since October 2016. No LNAPL removed previously during 2016 or throughout 2015 due to excavation project (January 2015 - March 2017) inadvertently resulting in burial of well head which was located during October 2016. LNAPL removed prior to well head being buried can be found in previously submitted Remediation Progress Reports.

B = Well hooked up to product recovery system on March 3, 2017 (i.e., all LNAPL removed subsequent to this date achieved via pumping) with skimmer manually shutdown on March 28, 2018 to allow for LNAPL recovery; Operations resumed on an intermittent basis starting on July 19, 2018, and regularly from September 19, 2018 to October 3, 2018, and again from December 14, 2018 to March 11, 2019 and May 2-6, 2019. Pump has otherwise remained off-line due to insufficient yield.

TABLE 5K
Summary of LNAPL Removal in Well GW-14R - Fourth Quarter 2019
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
--	No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2019							
Cumulative for the Reporting Period:				0	0	0	0	0
Cumulative Beginning October 2018 ^{A,B}:				352	0	0	360	2,464

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable □

A = Cumulative LNAPL removed since October 2018 following hookup of well to a newly installed controller.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of expanded product recovery system operations that began on October 8, 2018 (skimming from well GW-14R initiated on October 8, 2018 but pump was manually shutdown on April 17, 2019 to allow for LNAPL recovery, and only otherwise operated briefly during the reporting period from May 2-6, 2019 to evaluate the well yield).

TABLE 5L
Summary of LNAPL Removal in Well TFR-22 - Fourth Quarter 2019
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
10/02/19	32.42	34.90	2.48	12.0	No Sock in Well	NA	157	1,074
10/09/19	32.80	33.90	1.10	6.0	No Sock in Well	NA	163	1,115
10/23/19	33.22	33.51	0.29	3.0	No Sock in Well	NA	166	1,136
10/30/19	33.47	34.19	0.72	4.0	No Sock in Well	NA	170	1,163
11/13/19	33.35	34.12	0.77	8.0	No Sock in Well	NA	178	1,218
11/20/20	33.37	33.41	0.04	0.0	No Sock in Well	NA	178	1,218
Cumulative for the Reporting Period:				33	0	0	33	226
Cumulative Beginning October 2018 ^{A,B}:				145	0	0	178	1,218

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable

A = Cumulative LNAPL removed since October 2018 following hookup of well to a newly installed controller.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of expanded product recovery system operations that began on October 8, 2018 (skimming from well TFR-22 initiated on October 8, 2018 but pump was manually shutdown on November 28, 2018 to allow for LNAPL recovery; Pumping resumed on from December 14, 2018 to April 17, 2019, and May 30, 2019 through June 30, 2019).

TABLE 5M
Summary of LNAPL Removal in Well TFR-24 - Fourth Quarter 2019
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
--	No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2019							
Cumulative for the Reporting Period:				0	0	0	0	0
Cumulative Beginning October 2018 ^{A,B}:				102	0	0	102	698

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable □

A = Cumulative LNAPL removed since October 2018 following hookup of well to a newly installed controller.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of expanded product recovery system operations that began on October 8, 2018 (skimming from well TFR-24 initiated on October 8, 2018 but pump was manually shutdown on November 28, 2018 to allow for LNAPL recovery, and also operated from December 7-27, 2018, January 4-7, 2019, January 11, 2019 to February 7, 2019, and February 19, 2019 to March 11, 2019; Pump remained off-line through June 2019 due to insufficient yield).

TABLE 5N
Summary of LNAPL Removal in Well TFR-29 - Fourth Quarter 2019
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
10/02/19	31.75	36.95	5.20	24.0	No Sock in Well	NA	739	5,060
10/09/19	31.85	37.10	5.25	24.0	No Sock in Well	NA	763	5,224
10/23/19	32.68	35.22	2.54	24.0	No Sock in Well	NA	787	5,388
10/30/19	32.87	36.12	3.25	15.0	No Sock in Well	NA	802	5,491
11/13/19	33.18	35.03	1.85	17.0	No Sock in Well	NA	819	5,607
11/20/19	33.10	34.72	1.62	8.0	No Sock in Well	NA	827	5,662
Cumulative for the Reporting Period:				112	0	0	112	766
Cumulative Beginning April 2018 ^{A,B}:				827	0	0	827	5,662

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable

A = Cumulative LNAPL removed since April 2018 following installation of well during November 2017.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (skimming from well TFR-29 initiated on April 23, 2018, and temporarily discontinued from September 5, 2018 to October 8, 2018 pending hookup to a new controller).

TABLE 50
Summary of LNAPL Removal in Well TFR-33 - Fourth Quarter 2019
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
--	No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2019							

Cumulative for the Reporting Period:	0	0	0	0	0
Cumulative Beginning October 2018 ^{A,B}:	123	0	0	123	842

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable □

A = Cumulative LNAPL removed since October 2018 following hookup of well to a newly installed controller.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of expanded product recovery system operations that began on October 8, 2018 (skimming from well TFR-33 initiated on October 8, 2018 but pump was manually shutdown on December 7, 2018 to allow for LNAPL recovery, and also operated from December 19, 2018 through February 27, 2019; Pump remained off-line through June 2019 due to insufficient yield).

TABLE 5P
Summary of LNAPL Removal in Well RTF-18-E - Fourth Quarter 2019
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
10/02/19	32.60	33.55	0.95	7.0	0.0	0.0	646.0	4,420.7
10/09/19	32.62	33.10	0.48	5.0	0.0	0.0	649.0	4,441.3
10/23/19	33.04	33.74	0.70	9.0	0.0	0.0	656.0	4,489.2
10/30/19	33.39	34.16	0.77	6.0	0.0	0.0	660.0	4,516.5
11/13/19	32.85	33.20	0.35	6.0	0.0	0.0	664.0	4,543.9
11/20/19	32.53	33.25	0.72	6.0	0.0	0.0	668.0	4,571.3

Cumulative for the Reporting Period:	39	0	0	27	185
Cumulative Beginning May 2016 - July 2016 ^A:	48	0	0	48	325
Cumulative Beginning August 2016 - September 2019 ^B:	593	0	0	593	4,061
Cumulative Beginning May 2016 ^A:	668	0	0	668	4,571

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable □

A = Cumulative LNAPL removed since May 2016 following installation of well during December 2015.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (skimming from well RTF-18-E initiated on August 11, 2016).

* = Well RTF-18-E was off-line from February 15, 2017 to October 4, 2017 to allow for LNAPL recovery which continued to be adequate for effective removal via skimming until March 15, 2018 when the pump was again shutdown and remained off-line until December 27, 2018 (pumping resumed until February 27, 2019 with no subsequent operations through June 2019 based on regular gauging data showing little to no measureable product in the well).

TABLE 5Q
Summary of LNAPL Removal in Well RTF-18-NW - Fourth Quarter 2019
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
--	No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2019							

Cumulative for the Reporting Period:	0	0	0	0	0
Cumulative Beginning May 2016 - July 2016 ^A:	77	0	0	77	524
Cumulative Beginning August 2016 - June 2019 ^B:	2,961	0	0	2,961	20,263
Cumulative Beginning May 2016 ^A:	3,038	0	0	3,038	20,786

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable □

A = Cumulative LNAPL removed since May 2016 following installation of well during December 2015.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (skimming from well RTF-18-NW initiated on August 11, 2016).

* = Well RTF-18-NW was off-line from February 15, 2017 to August 10, 2017 to allow for LNAPL recovery which continued to be adequate for effective removal via skimming until March 11, 2019 with no subsequent operations through June 2019 based on regular gauging data showing little to no measureable product in the well.

TABLE 5R
Summary of LNAPL Removal in Well RTF-18-N - Fourth Quarter 2019
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
--	No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2019							

Cumulative for the Reporting Period:	0	0	0	0	0
Cumulative Beginning April 2016 - July 2016 ^A:	48	0	0	48	325
Cumulative Beginning August 2016 - June 2019 ^B:	498	0	0	498	3,405
Cumulative Beginning April 2016 ^A:	545	0	0	545	3,730

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable □

A = Cumulative LNAPL removed since April 2016 following installation of well during December 2015.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (skimming from well RTF-18-N initiated on August 11, 2016).

* = Well RTF-18-N was off-line from September 14, 2016 to October 10, 2017, and November 7, 2017 to January 7, 2018, to allow for LNAPL recovery (pumping resumed until February 27, 2019 with no subsequent operations through June 2019 based on regular gauging data showing little to no measureable product in the well).

TABLE 5S
Summary of LNAPL Removal in Well TF-18 - Fourth Quarter 2019
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
--	No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2019							

Cumulative for the Reporting Period:	0	0	0	0	0
Cumulative Beginning January 2014 - July 2016^A:	266	307	45	311	2,128
Cumulative Beginning August 2016 - June 2019^B:	2,003	0	0	2,003	13,707
Cumulative Beginning January 2014^A:	2,269	307	45	2,314	15,835

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable□

A = Cumulative LNAPL removed prior to January 2014 can be found in previously submitted Remediation Progress Reports.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (skimming initially isolated to well TF-18 for testing purposes with other wells coming online August 11, 2016).

* = Product recovery system off-line from January 9-27, 2017 due to full storage tank, and well TF-18 resumed operating after tank was emptied until February 8, 2017 when skimmer was manually shutdown to allow for LNAPL recovery (pumping resumed from August 10, 2017 to January 25, 2019 with no subsequent operations through June 2019 based on regular gauging data showing little to no measureable product in the well).

TABLE 5T
Summary of LNAPL Removal in Well RTF-18-NNW - Fourth Quarter 2019
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
--	No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2019							

Cumulative for the Reporting Period:	0	0	0	0	0
Cumulative Beginning April 2016 - July 2016^A:	55	0	0	55	373
Cumulative Beginning August 2016 - June 2019^B:	49	0	0	49	332
Cumulative Beginning April 2016^A:	103	0	0	103	705

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable

A = Cumulative LNAPL removed since April 2016 following installation of well during December 2015.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (skimming from well RTF-18-NNW initiated on September 14, 2016 (off-line since January 9, 2017)).

* = Product recovery system off-line from January 9-27, 2017 due to full storage tank, and well RTF-18-NNW has since remained off-line to allow for LNAPL recovery which decreased from January 2017 to March 2017 with no measurable product from early March 2017 through mid-September 2017, and less than 0.3 foot at the end of 2017 (note that product thicknesses temporarily exhibited a further increasing overall trend during 2018 that has since reversed with little to no measurable product since late February 2019).

TABLE 5U
Summary of LNAPL Removal in Well RTF-18-W - Fourth Quarter 2019
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
--	No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2019							

Cumulative for the Reporting Period:	0	0	0	0.0	0.0
Cumulative Beginning April 2016 - July 2016 ^A:	39	0	0	39	265
Cumulative Beginning August 2016 - June 2019 ^B:	371	0	0	371	2,539
Cumulative Beginning April 2016 ^A:	410	0	0	410	2,804

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable □

A = Cumulative LNAPL removed since April 2016 following installation of well during December 2015.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (skimming from well RTF-18-W initiated on September 14, 2016).

* = Well RTF-18-W was off-line from December 9, 2016 to October 10, 2017 to allow for LNAPL recovery which continued to be adequate for effective removal via skimming until April 4, 2019 when the pump was again shutdown and remained off-line through June 2019 based on regular gauging data showing little to no measureable product in the well.

TABLE 6
Historical Summary of Analytical Groundwater Sampling Results - Influent GWETS
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
04/22/08		--	--	--	--	71	25	17	42	30	14	4.6	<2.0	<2.0	<2.0
05/01/08		--	--	810	--	--	--	--	--	--	--	--	--	--	--
05/16/08		--	--	760	--	--	--	--	--	--	--	--	--	--	--
06/12/08		--	--	--	--	<0.50	<0.50	<0.50	<0.50	<0.50	25	7.7	<2.0	<2.0	<2.0
07/19/08		--	--	170	<100	27	0.77	7.0	13	7.9	<10	3.9	<2.0	<2.0	<2.0
09/03/08		--	--	--	--	--	--	--	--	--	<10	--	--	--	--
09/08/08		--	--	--	--	27	0.99	8.3	13	8.2	<10	3.1	<2.0	<2.0	<2.0
09/15/08		--	--	--	--	36	0.81	8.5	12	6.8	<10	3.8	<2.0	<2.0	<2.0
11/13/08		--	--	--	--	27	<0.50	2.0	12	5.6	<10	<0.50	<2.0	<2.0	<2.0
11/26/08		--	--	--	--	<0.50	<0.50	<0.50	1.3	0.61	16	5.6	<2.0	<2.0	<2.0
12/13/08		--	--	--	--	<0.50	<0.50	0.56	1.1	0.54	19	7.0	<2.0	<2.0	<2.0
01/09/09		--	--	--	--	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
03/05/09		--	--	<100	--	21	<0.50	2.5	7.2	3.1	12	3.1	<2.0	<2.0	<2.0
03/18/09		--	--	200	170	21	<0.50	2.9	7.0	4.5	13	3.3	<2.0	<2.0	<2.0
05/15/09		--	--	<100	--	--	--	--	--	--	--	--	--	--	--
06/04/09		--	--	190	--	26	<0.50	3.3	10	6.6	<10	4.8	<2.0	<2.0	<2.0
06/24/09		--	--	--	--	28	<0.50	2.5	7.6	4.2	12	4.4	<2.0	<2.0	<2.0
05/28/09		--	--	170	--	27	<0.50	2.6	7.9	4.5	<10	3.6	<2.0	<2.0	<2.0
11/19/09		--	--	<100	--	15	<0.50	1.3	5.8	2.9	5.6	2.3	1.2	<2.0	<2.0
10/26/10		--	--	--	--	20	<0.50	1.6	7.4	2.1	8.0	2.9	1.1	<2.0	<2.0
06/01/11		--	--	90	--	--	--	--	--	--	--	--	--	--	--
07/14/11		--	--	--	--	13	<0.50	2.3	6.2	3.0	6.7	1.6	<2.0	<2.0	<2.0
09/13/11		--	--	--	--	5.0	<0.50	0.37	3.4	0.99	<10	1.3	<2.0	<2.0	<2.0
09/22/11		--	--	--	--	5.5	<0.50	0.92	7.2	1.6	5.6	1.1	<2.0	<2.0	<2.0
10/19/11		--	--	--	--	8.2	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<2.0	<2.0	<2.0
01/20/12		--	--	--	--	14	<0.50	2.8	7.8	1.2	16	1.3	0.42	<2.0	<2.0
02/03/12		--	--	120	340	--	--	--	--	--	--	--	--	--	--

TABLE 6
Historical Summary of Analytical Groundwater Sampling Results - Influent GWETS
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
02/17/12		--	--	--	--	10	<0.50	1.5	7.4	1.2	15	1.2	0.39	<2.0	<2.0
02/24/12		--	--	180	--	26	<0.50	1.0	7.0	1.2	<10	1.2	0.41	<2.0	<2.0
03/02/12		--	--	--	--	23	<0.50	1.4	11	2.4	8.7	1.4	0.47	<2.0	<2.0
03/06/12		--	--	--	--	28	<0.50	1.0	9.0	1.7	13	1.1	0.37	<2.0	<2.0
06/15/12		--	--	--	--	39	13	17	88	26	<10	1.3	0.52	<2.0	<2.0
08/31/12		--	--	820	940	--	--	--	--	--	--	--	--	--	--
09/27/12		--	--	5,300	3,800	--	--	--	--	--	--	--	--	--	--
10/23/12		--	--	--	--	67	60	110	460	140	<10	<0.50	<2.0	<2.0	<2.0
01/31/13		--	--	3,600	--	--	--	--	--	--	--	--	--	--	--
05/01/13		--	--	6,300	5,500	20	4.7	8.0	41	14	4.8	0.56	<2.0	<2.0	<2.0
07/12/13		--	--	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
08/20/13		--	--	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
12/19/13		--	--	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
02/07/14		--	--	1,500	2,300	--	--	--	--	--	--	--	--	--	--
03/21/14		--	--	--	--	61	5.1	23	150	45	<10	0.87	<2.0	<2.0	<2.0
05/29/14	1	--	8015M & 8260B	--	--	29	1.0	30	180	45	<10	1.0	<2.0	<2.0	<2.0
07/09/14	2	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	720	1,800	82	3.8	27	110	31	<7.0	<0.40	<0.50	<0.40	<0.30
08/13/14		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	150	1,500	57	3.7	30	130	36	<7.0	0.77	<0.50	<0.40	<0.30
09/17/14		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	800	3,500	23	0.73	20	170	40	<7.0	0.83	<0.50	<0.40	<0.30
10/20/14		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	560	3,600	31	2.2	40	240	54	<7.0	0.6	<0.50	<0.40	<0.30
11/17/14	3,4,1	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	260	1,400	21	0.71	10	62	18	<7.0	<0.40	<0.50	<0.40	<0.30
12/17/14	4,1	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	190	880	23	0.66	8.8	48	14	<7.0	<0.40	<0.50	<0.40	<0.30
01/14/15	4,1	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	4,600	3,800	150	2.8	29	130	37	<7.0	<0.40	<0.50	<0.40	<0.30
02/20/15	4,1	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	2,500	8,100	230	9.8	220	880	220	<7.0	0.45	<0.50	<0.40	<0.30
03/27/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	620	980	9.9	<0.30	2.7	18	5.9	<7.0	1.0	<0.50	<0.40	<0.30
05/11/15	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	330	16	5.2	5.9	37	14	<7.0	0.58 J	<0.50	<0.40	<0.30
06/03/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	150	340	20	6.6	12	22	25	<7.0	0.52 J	<0.50	<0.40	<0.30

TABLE 6
Historical Summary of Analytical Groundwater Sampling Results - Influent GWETS
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
07/09/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	180	610	<0.20	<0.30	<0.20	<0.40	<0.30	<7.0	0.62 J	<0.50	<0.40	<0.30
08/17/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	430	<40	<0.20	<0.30	<0.20	0.95 J	<0.30	<7.0	0.71 J	<0.50	<0.40	<0.30
09/03/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	86 J	570	5.9	0.37 J	3.7	10	14	<7.0	0.45 J	<0.50	<0.40	<0.30
10/05/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	500	7.3	<0.30	8.7	35	15	<7.0	0.73 J	<0.50	<0.40	<0.30
11/02/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	420	3,400	5.1	<0.30	17	130	22	<7.0	0.85 J	<0.50	<0.40	<0.30
12/07/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	710	3,800	0.70	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
01/12/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	2,000	510	14	<0.30	3.6	25	7.0	<7.0	<0.40	<0.50	<0.40	<0.30
02/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	72 J	180	13	<0.30	0.53	2.7	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
03/14/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	270	1,100	0.91	<0.30	<0.20	1.6	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
04/04/16	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	76 J	100	0.99	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
05/04/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	170	470	<0.20	<0.30	<0.20	1.3	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
06/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	280	75 J	4.9	<0.30	<0.20	<0.40	<0.30	<7.0	0.43 J	<0.50	<0.40	<0.30
07/11/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	330	<40	4.7	<0.30	<0.20	<0.40	<0.30	<7.0	0.79 J	<0.50	<0.40	<0.30
08/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	3.7	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
09/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	2.7	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
10/12/16	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	230	<40	4.5	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
11/01/16	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	120	52 J	3.1	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
12/05/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	450	51 J	<0.20	<0.30	<0.20	<0.40	<0.30	<7.0	0.60 J	<0.50	<0.40	<0.30
01/09/17		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	150	<40	4.4	<0.30	<0.20	<0.40	<0.30	<7.0	0.58 J	<0.50	<0.40	<0.30
02/06/17	6	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	110	<40	3.5	<0.30	0.41 J	0.60 J	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
03/15/17	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	68 J	<40	4.3	<0.30	<0.20	<0.40	<0.30	<7.0	0.60 J	<0.50	<0.40	<0.30
04/05/17	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	74 J	<40	8.4	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
05/03/17		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	72 J	<40	4.3	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
06/05/17		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	62 J	<40	5.0	<0.30	<0.20	0.50 J	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
07/19/17	5	GW-2, GW-15, GW-16	8015M & 8260B	75 J	<40	3.4	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
08/02/17		GW-2, GW-15, GW-16	8015M & 8260B	80 J	<40	4.0	<0.30	<0.20	<0.40	<0.30	<7.0	0.88 J	<0.50	<0.40	<0.30
09/13/17		GW-2, GW-15, GW-16	8015M & 8260B	84 J	<40	<0.20	<0.30	<0.20	<0.40	<0.30	<7.0	0.69 J	<0.50	<0.40	<0.30
10/16/17		GW-2, GW-15, GW-16	8015M & 8260B	64 J	<40	3.7	<0.30	<0.20	<0.40	<0.30	<7.0	0.54 J	<0.50	<0.40	<0.30
11/13/17		GW-2, GW-15, GW-16	8015M & 8260B	78 J	<40	4.5	<0.30	<0.20	<0.40	<0.30	<7.0	0.54 J	<0.50	<0.40	<0.30

TABLE 6
Historical Summary of Analytical Groundwater Sampling Results - Influent GWETS
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
12/11/17	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	2.8	<0.30	<0.20	<0.40	<0.30	8.8 J	<0.40	<0.50	<0.40	<0.30
01/11/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	73 J	<40	2.0	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
02/26/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	130	<40	5.3	<0.30	<0.20	<0.40	<0.30	<7.0	0.49 J	<0.50	<0.40	<0.30
03/20/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	4.4	<0.30	<0.20	<0.40	<0.30	<7.0	0.47 J	<0.50	<0.40	<0.30
04/02/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	65 J	<40	2.9	<0.30	<0.20	<0.40	<0.30	<7.0	0.50 J	<0.50	<0.40	<0.30
05/02/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	130	<40	2.5	<0.30	<0.20	<0.40	<0.30	<7.0	0.74 J	<0.50	<0.40	<0.30
06/04/18		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	0.74	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
07/02/18	7,8	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	1.1	<0.30	<0.20	<0.40	<0.30	<7.0	0.41 J	<0.50	<0.40	<0.30
08/06/18		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	3.1	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
09/13/18		GW-2, GW-15, GW-16	8015M & 8260B	<60	<40	0.38 J	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
10/29/18		GW-15, GW-16	8015M & 8260B	<60	<40	2.4	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
11/14/18		GW-15, GW-16	8015M & 8260B	<60	<40	2.0	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
12/17/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 624	170	<100	<0.5	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0
01/08/19		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	--	<40	1.4	<0.30	<0.20	<0.40	<0.30	<7.0	0.92 J	<0.50	<0.40	<0.30
02/06/19	9	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	170	<100	<0.5	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0

Legend / Notes:

Data collected prior to July 2014 not verified for completeness nor accuracy.

GWETS = Groundwater extraction and treatment system TPHd = Total petroleum hydrocarbons as diesel MTBE = Methyl tertiary-butyl ether TBA = tertiary-Butyl alcohol DIPE = Diisopropyl ether
 ETBE = Ethyl tertiary-butyl ether TPHg = Total petroleum hydrocarbons as gasoline TAME = tertiary-Amyl-methyl ether µg/L = Micrograms per liter -- = Not available or not analyzed

<1 = Not detected at or above the Method Reporting Limit (MRL) shown. Beginning 7/9/14, not detected at or above the Method Detection Limit (MDL) shown.
 J = Estimated value. Analyte detected at a level less than the MRL and greater than or equal to the MDL.

- Reported concentrations are shown in bold.

- 1 = GWETS manually shut down.
- 2 = GWETS restarted on 7/2/14, 1/13/15 and 2/25/15.
- 3 = GWETS manually shut down on 11/11/14.
- 4 = GWETS temporarily restarted but left off-line upon departure.
- 5 = GWETS manually shut down on 4/13/15, 5/6/15, 4/4/16, 9/26/16, 11/7/16, 3/8/17, 4/17/17 and 7/3/17, and restarted on 4/27/15, 5/8/15, 4/28/16, 10/12/16, 11/23/16, 3/15/17, 4/25/17 and 7/17/17, respectively.
- 6 = GWETS restarted following an automatic shut down on 2/4/17.
- 7 = GWETS manually shut down on 11/20/17 and largely remained off-line through late May 2018, as well as during July and December 2018, with the exception of a few operational days and/or weeks to collect system removal performance samples following the completion of media change out work, and/or to complete routine groundwater monitoring and sampling work along with system maintenance activities.
- 8 = GWETS manually shut down from 7/9/18 to 7/12/18 for installation of replacement discharge totalizer, 7/13/18 to 7/16/18 for repairs, and 7/18/18 to 7/20/18 for carbon changeout fieldwork.
- 9 = GWETS off-line since 2/27/19 pending the completion of an alternative waste discharge evaluation study.
- 10 = GWETS restarted on October 10, 2019 per the new sewer discharge permit. Sampling will begin January 1, 2020 per the permit requirements.

TABLE 7
Historical Summary of Analytical Vapor Sampling Results - Influent Carbon VES
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	Vapor Extraction System Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		GRO as Hexane		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		Total Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
04/29/11		--	TO-3 & 8260B	--	--	--	17	60	0.021	0.067	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
05/27/11		--	TO-3 & 8260B	--	--	--	13	46	0.021	0.067	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
06/30/11		--	TO-3 & 8260B	--	--	--	11	39	0.018	0.057	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
07/27/11		--	TO-3 & 8260B	--	--	--	8.6	31	0.013	0.042	<0.0050	<0.019	0.012	0.052	--	--	--	--	0.013	0.056	<0.010	<0.036
08/26/11		--	TO-3 & 8260B	--	--	--	7.8	28	0.012	0.038	<0.0050	<0.019	0.020	0.087	--	--	--	--	0.0264	0.115	<0.010	<0.036
09/30/11		--	TO-3 & 8260B	--	--	--	6.9	25	0.012	0.038	<0.0050	<0.019	0.011	0.048	--	--	--	--	0.011	0.048	<0.010	<0.036
10/28/11		--	TO-3 & 8260B	--	--	--	5.4	19	0.011	0.035	<0.0050	<0.019	0.015	0.065	--	--	--	--	0.028	0.12	<0.010	<0.036
11/30/11		--	TO-3 & 8260B	--	--	--	8.5	30	0.012	0.038	<0.0050	<0.019	0.0067	0.029	--	--	--	--	0.010	0.043	<0.010	<0.036
12/28/11		--	TO-3 & 8260B	--	--	--	8.6	31	0.024	0.077	0.0075	0.028	0.0096	0.042	--	--	--	--	0.022	0.095	<0.010	<0.036
01/26/12		--	TO-3 & 8260B	--	--	--	3.7	13	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
02/24/12		--	TO-3 & 8260B	--	--	--	4.6	16	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
03/28/12		--	TO-3 & 8260B	--	--	--	4.1	15	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
04/27/12		--	TO-3 & 8260B	--	--	--	3.6	13	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
05/31/12		--	TO-3 & 8260B	--	--	--	6.5	23	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
06/28/12		--	TO-3 & 8260B	--	--	--	5.3	19	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
07/26/12		--	TO-3 & 8260B	4.1	--	--	4.1	15	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
08/31/12		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
09/27/12		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
10/30/12		--	TO-3 & 8260B	1.5	--	--	6.1	22	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
11/26/12		--	TO-3 & 8260B	4.2	--	--	4.2	15	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
12/19/12		--	TO-3 & 8260B	3.2	--	--	3.2	11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
01/31/13		--	TO-3 & 8260B	4.6	--	--	4.6	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02/27/13		--	TO-3 & 8260B	4.5	--	--	4.5	16	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
03/28/13		--	TO-3 & 8260B	6.7	--	--	6.7	24	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
04/22/13		--	TO-3 & 8260B	5.4	--	--	5.4	19	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
07/29/13		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
08/12/13		--	TO-3 & 8260B	--	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
10/30/13		--	TO-3 & 8260B	3.0	--	--	3.0	11	0.014	0.045	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
11/27/13		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	0.015	0.065	<0.010	<0.036
12/19/13		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
03/21/14		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	<0.0050	<0.022	<0.010	<0.043	<0.015	<0.065	<0.010	<0.036
04/23/14		VEW-32, VEW-33, VEW-34, VEW-35, VEW-36 VEW-37, HW-1, HW-3, HW-5, HW-7	TO-3 & 8260B	1.9	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	<0.0050	<0.022	<0.010	<0.043	<0.015	<0.065	<0.010	<0.036
05/16/14	1	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36 VEW-37, HW-1, HW-3, HW-5, HW-7	TO-3 & 8260B	1.1	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	<0.0050	<0.022	<0.010	<0.043	<0.015	<0.065	<0.010	<0.036
07/09/14	2	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36 VEW-37, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	24	6.1	25	7.0	25	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
08/13/14		VEW-32, VEW-33, VEW-34, VEW-35, VEW-36 VEW-37, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	27	7.3	30	8.4	30	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0

TABLE 7
Historical Summary of Analytical Vapor Sampling Results - Influent Carbon VES
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	Vapor Extraction System Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		GRO as Hexane		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		Total Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
09/17/14	3	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	5.6	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
10/23/14	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	1.2	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
11/17/14	5	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	1.3	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
12/17/14		VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	0.5	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
01/14/15		VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	1.5	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
02/20/15		VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	1.5	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
03/27/15		VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	3.4	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
04/27/15	6	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	132	140	580	160	580	0.63	2.0	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	0.23	1.0	0.23	1.0	<0.6	<2.0
05/29/15	6,7	--	8015M & 8260M	103	83	340	97	340	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
06/03/15	6,8	VEW-32, VEW-33, VEW-34	8015M & 8260M	47	32	130	37	130	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
07/09/15	6	VEW-32, VEW-33, VEW-34	8015M & 8260M	162	150	600	170	600	<0.16	<0.50	0.15	0.58	<0.12	<0.50	0.67	2.9	0.71	3.1	1.38	6.0	<0.55	<2.0
07/15/15	6,9	VEW-32, VEW-33, VEW-34	8015M & 8260M	147	170	700	200	700	<0.16	<0.50	0.53	2.0	0.18	0.78	0.99	4.3	1.5	6.3	2.49	10.6	<0.55	<2.0
07/21/15	6,9	VEW-32, VEW-33, VEW-34	8015M & 8260M	259	160	640	180	640	<0.16	<0.50	0.25	0.94	<0.12	<0.50	0.71	3.1	0.62	2.7	1.33	5.8	<0.55	<2.0
07/29/15	6,9	VEW-32, VEW-33, VEW-34	8015M & 8260M	129	170	710	200	710	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	0.32	1.4	0.25	1.1	0.57	2.5	<0.55	<2.0
08/17/15	6,10	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5	8015M & 8260M	135	130	550	160	550	0.75	2.4	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	0.28	1.2	0.28	1.2	<0.55	<2.0
09/09/15	6,11	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	202	190	760	220	760	0.30	0.95	0.74	2.8	0.76	3.3	0.69	3.0	2.5	11	3.19	14	<0.55	<2.0
09/22/15	6,9	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	225	150	600	170	600	0.27	0.85	0.37	1.4	<0.12	<0.50	0.71	3.1	0.58	2.5	1.29	5.6	<0.55	<2.0
09/25/15	6,9	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	258	220	890	250	890	0.41	1.3	0.64	2.4	0.17	0.75	0.74	3.2	0.85	3.7	1.59	6.9	<0.55	<2.0
10/07/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	256	230	940	270	940	0.69	2.2	0.82	3.1	0.22	0.97	0.41	1.8	1.1	4.6	1.51	6.4	<0.55	<2.0
11/04/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	380	290	1,200	340	1,200	0.88	2.8	1.6	5.9	0.25	1.1	1.4	6.2	2.1	9.0	3.5	15	<0.55	<2.0
12/07/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	346	320	1,300	370	1,300	0.69	2.2	1.9	7.0	0.15	0.64	0.76	3.3	0.94	4.1	1.7	7.4	<0.55	<2.0
01/13/16	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	141	110	470	130	470	0.16	0.52	0.29	1.1	<0.12	<0.50	0.22	0.95	0.30	1.3	0.52	2.3	<0.55	<2.0
02/10/16	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	124	98	400	110	400	0.59	1.9	0.66	2.5	0.23	1.0	0.39	1.7	0.6	2.6	0.99	4.3	<0.55	<2.0
03/02/16	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	92	54	220	63	220	<0.16	<0.50	0.25	0.93	<0.12	<0.50	0.14	0.62	<0.23	<1.0	0.14	0.62	<0.55	<2.0
04/06/16	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	124	120	490	140	490	0.38	1.2	0.29	1.1	<0.12	<0.50	0.17	0.72	<0.23	<1.0	0.17	0.72	<0.55	<2.0
05/04/16	6,7	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	107	100	410	120	410	0.31	1.0	0.20	0.77	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
06/06/16	6,12	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	73	59	240	68	240	0.59	1.9	0.50	1.9	<0.12	<0.50	0.41	1.8	0.51	2.2	0.92	4.0	<0.55	<2.0
07/06/16	6,13	HW-1, HW-3, HW-5	8015M & 8260M	49	37	150	43	150	0.41	1.3	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
09/01/16	6,13	HW-1, HW-3, HW-5	8015M & 8260M	46	18	75	21	75	0.41	1.3	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
10/12/16	6,13,14	HW-1, HW-3, HW-5	8015M & 8260M	43	19	79	22	79	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
11/01/16	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	114	81	330	94	330	0.53	1.7	0.23	0.86	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
12/05/16	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	96	86	350	100	350	0.31	1.0	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
01/09/17	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	86	68	280	80	280	0.63	2.0	0.24	0.89	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
02/06/17	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	93	66	270	77	270	0.44	1.4	0.19	0.72	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
03/15/17	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	96	76	310	88	310	0.53	1.7	0.24	0.9	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0

TABLE 7
Historical Summary of Analytical Vapor Sampling Results - Influent Carbon VES
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	Vapor Extraction System Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		GRO as Hexane		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		Total Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
03/27/17	15,16	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	193	150	600	170	600	0.91	2.9	0.42	1.6	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
04/17/17	15	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	138	150	610	170	610	1.1	3.5	0.53	2.0	<0.12	<0.50	<0.12	<0.50	0.23	1.0	0.23	1.0	<0.55	<2.0
05/03/17	15	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	141	120	510	140	510	0.69	2.2	0.58	2.2	0.12	0.51	<0.12	<0.50	0.35	1.5	0.35	1.5	<0.55	<2.0
06/05/17	15	HW-1, HW-3, HW-5	8015M & 8260M	136	110	430	120	430	0.81	2.6	0.40	1.5	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
06/27/17	15,17	HW-1, HW-3, HW-5, VEW-38, VEW-39, VEW-40	8015M & 8260M	--	140	560	160	560	0.38	1.2	0.20	0.75	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
07/19/17		HW-5, HW-7 and VEW-39	8015M & 8260M	199	120	500	140	500	0.75	2.4	0.45	1.7	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
08/09/17	18,19	HW-1, HW-5, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	8015M & 8260M	695	560	2,300	650	2,300	0.69	2.2	0.29	1.1	0.53	2.3	<0.12	<0.50	0.44	1.9	0.44	1.9	<0.55	<2.0
09/07/17	19	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	8015M & 8260M	767	610	2,500	710	2,500	1.2	3.9	0.48	1.8	0.46	2.0	<0.12	<0.50	0.51	2.2	0.51	2.2	<0.55	<2.0
10/12/17	19,20	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	8015M & 8260M	536	370	1,500	430	1,500	1.0	3.2	0.32	1.2	0.41	1.8	0.20	0.88	0.83	3.6	1.0	4.5	<0.55	<2.0
11/02/17	19	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	8015M & 8260M	300	240	970	270	970	0.78	2.5	0.24	0.89	0.28	1.2	<0.12	<0.50	0.51	2.2	0.51	2.2	<0.55	<2.0
12/11/17	19	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	8015M & 8260M	335	270	1,100	300	1,100	0.85	2.7	0.27	1.0	0.21	0.9	<0.12	<0.50	0.37	1.6	0.37	1.6	<0.55	<2.0
01/11/18	21	HW-1, HW-5, HW-7	8015M & 8260M	269	240	970	270	970	1.1	3.4	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
02/12/18	21	HW-1, HW-5, HW-7	8015M & 8260M	148	86	350	88	350	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
03/28/18	21	HW-1, HW-5, HW-7	8015M & 8260M	201	160	670	170	670	0.59	1.9	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
04/02/18	21	HW-1, HW-5, HW-7	8015M & 8260M	191	150	620	160	620	0.25	0.79	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
05/02/18	21	HW-1, HW-5, HW-7	8015M & 8260M	149	110	470	150	470	0.16	0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
06/06/18	21	HW-1, HW-5, HW-7	8015M & 8260M	95	49	200	50	200	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
07/02/18	21	HW-1, HW-5, HW-7	8015M & 8260M	135	120	490	120	490	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
08/06/18	21	HW-1, HW-5, HW-7	8015M & 8260M	134	49	200	48	200	0.3	0.95	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
09/13/18	21	HW-1, HW-5, HW-7	8015M & 8260M	109	49	200	50	200	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
10/29/18	21	HW-1, HW-5, HW-7	8015M & 8260M	118	66	270	59	270	0.44	1.4	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
11/14/18	21	HW-1, HW-5, HW-7	8015M & 8260M	202	200	800	170	800	1.3	4.2	0.69	2.6	<0.12	<0.5	<0.12	<0.5	0.35	1.5	<0.35	<1.5	<0.55	<2.0
12/12/18	21	HW-1, HW-5, HW-7	8015M & 8260M	130	98	400	87	400	0.59	1.9	0.21	0.79	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
01/28/19	21	HW-1, HW-5, HW-7	8015M & 8260M	228	220	880	190	880	1.3	4.0	0.27	1.0	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
02/12/19	21, 22	HW-1, HW-5, HW-7	8015M & 8260M	258	240	1,000	220	1,000	1.0	3.3	0.23	0.88	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
04/03/19	21, 22	HW-1, HW-5, HW-7	8015M & 8260M	394	73	300	65	300	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
11/25/19	23	HW-1, HW-5, HW-7, HW-8, HW-9	8015M & 8260M	164	42	170	38	170	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.1	<0.36	<1.6	<0.56	<2.1
12/30/19		HW-1, HW-5, HW-7, HW-8, HW-9	8015M & 8260M	39	7.1	29	6.3	29	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0

Legend / Notes:

Data collected prior to April 2014 not verified for completeness nor accuracy.

Influent vapor sample inadvertently not collected during August 2016.

VEV = Vapor extraction system

ppmv = Parts per million by volume

GRO = Gasoline range organics

µg/L = Micrograms per liter

- Reported concentrations are shown in bold.

MTBE = Methyl tertiary-butyl ether

-- = Not available or not analyzed

OVA = Organic Vapor Analyzer (calibrated or correlated to Hexane)

<0.1 = Not detected at or above the Method Reporting Limit (MRL) shown

1 = VES manually shut down on 05/29/14.

2 = VES restarted.

3 = Closed vapor extraction wells VEW-35, VEW-36, and VEW-37 on 08/27/14 based on field readings (see Table 9A for details).

4 = VES manually shut down.

5 = VES restarted on 11/03/14.

6 = Select soil biopiles also on line.

TABLE 7
Historical Summary of Analytical Vapor Sampling Results - Influent Carbon VES
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Legend / Notes continued:

- 7 = Closed all vapor extraction wells from 05/07/15 to 06/03/15, and 05/25/16 to 06/17/16, respectively, to focus extraction efforts on soil biopiles.
- 8 = Opened vapor extraction wells VEW-32, VEW-33 and VEW-34.
- 9 = Additional sample collected for laboratory analysis as part of field instrument correlation study.
- 10 = Opened vapor extraction wells HW-1, HW-3 and HW-5 on 08/10/15 based on field PID readings (see Table 9A for details).
- 11 = Closed vapor extraction well VEW-34 on 08/19/15 based on low to non-detectable lab results (see Table 10 for details).
- 12 = Opened vapor extraction wells HW-1, HW-3 and HW-5 on 06/17/16.
- 13 = Valves associated with vapor extraction wells HW-1, HW-3, HW-5 and/or HW-7 each set to a partially open position while leaving all other wells closed to focus extraction efforts on soil biopiles.
- 14 = Resumed vapor extraction from well HW-7 based on field PID readings (see Table 9A for details).
- 15 = Valves associated with vapor extraction wells HW-1, HW-3, HW-5 and/or HW-7 each set to optimize system in accordance with recent field readings and/or lab data since completion of ex-situ remediation project on 03/20/17.
- 16 = Additional sample collected for laboratory analysis after disconnecting all soil biopiles and optimizing system on 03/20/17 (i.e., with extraction efforts again focused on in-situ remediation following completion of ex-situ remediation project).
- 17 = Wells VEW-38, VEW-39 and VEW-40 tied into system during late June 2017 following installation per SGI's March 14, 2017 *Well Replacement Report and Work Plan*.
- 18 = Wells RW-1, RW-2, RW-7, RW-9, RW-12, RW-13, RW-18, RW-20 through RW-24, RW-26, and RW-28 through RW-33 tied into system during early August 2017 following installation per SGI's June 30, 2017 *Remediation Well Installation Update Report*.
- 19 = For full list of wells online, see SGI's November 15, 2017 *Remediation Status Report - Third Quarter 2017* and February 15, 2018 *Remediation Status Report - Fourth Quarter 2017*, respectively.
- 20 = Opened dilution valve approximately 10% to reduce carbon usage rate.
- 21 = Closed dilution valve and focused extraction efforts on relatively low concentration horizontal wells to reduce carbon usage with all other higher concentration vertical wells being connected to the thermal oxidizer (see Table 8 for details).
- 22 = No sample collected for analysis during March 2019 due to site condition and system operation status.
- 23 = System restart on 10/30/19 after installation of new blower.

TABLE 8
Historical Summary of Analytical Vapor Sampling Results - Influent Thermal Oxidizer VES
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	VES Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		GRO as Hexane		Benzene		Ethylbenzene		MTBE		Toluene		o-Xylene		m,p-Xylenes		Total Xylenes	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
01/11/18	1,2,3	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, RW-9, RW-13, RW-18 and RW-26	8015M & 8260M	1,942	370	1500	380	1,500	<0.16	<0.50	<0.12	<0.50	<0.55	<2.0	<0.13	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5
03/14/18	2,4,5,6	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	8015M & 8260M	2,193	370	1500	380	1,500	0.41	1.3	<0.12	<0.50	<0.55	<2.0	<0.13	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5
04/02/18	2	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	8015M & 8260M	1,370	1,700	7,100	1,800	7,100	4.1	13	0.28	1.2	<0.55	<2.0	<0.13	<0.50	<0.12	<0.50	0.76	3.3	<0.35	<1.5
05/02/18	2	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	8015M & 8260M	1,380	780	3,200	820	3,200	3.0	9.6	<0.12	<0.50	<0.55	<2.0	<0.13	<0.50	<0.12	<0.50	0.28	1.2	<0.35	<1.5
06/06/18	2,6,7	HW-1, HW-5, HW-7, VEW-39, RW-1, -4, -9, -10, -11, -13, -14 and -18	8015M & 8260M	1,531	1,000	4,100	990	4,100	4.1	13	0.17	0.72	<0.55	<2.0	<0.13	<0.50	<0.12	<0.50	0.53	2.3	<0.35	<1.5
07/02/18	2,6	RW-1, -4, -5, -9, -10, -11, -13, -18, -22, -29, -23, -24, -26, -27, -28, -30, -31, -32, -33, -36, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, -50, VEW-40	8015M & 8260M	890	560	2,300	560	2,300	2.2	7.1	<0.23	<1.0	<1.1	<4.0	<0.27	<1.0	<0.23	<1.0	0.55	2.4	<0.35	<1.5
08/06/18	2,6	RW-1, -4, -5, -9, -10, -11, -13, -18, -22, -29, -23, -24, -26, -27, -28, -30, -31, -32, -33, -36, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, -50, VEW-40	8015M & 8260M	876	710	2,900	710	2,900	0.88	2.8	0.23	1.0	<0.55	<2.0	0.58	2.2	0.25	1.1	0.92	4.0	<0.35	<1.5
09/13/18	2,6	RW-1, -4, -5, -9, -10, -11, -13, -18, -22, -29, -23, -24, -26, -27, -28, -30, -31, -32, -33, -36, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, -50, VEW-40	8015M & 8260M	935	930	3,800	930	3,800	1.9	6.0	0.41	1.8	<0.28	<1.0	0.34	1.3	0.18	0.77	0.94	4.1	<0.35	<1.5
10/29/18	2,6	RW-1, -4, -5, -9, -10, -11, -14, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -36, -37, -38, -40, -41, -42, -44, -45, -47, -48, -49, -50, VEW-40	8015M & 8260M	791	440	1,800	390	1,800	0.97	3.1	<0.12	<0.5	<0.55	<2.0	<0.13	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5
11/14/18	2,6	RW-1, -4, -5, -9, -10, -11, -14, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -36, -37, -38, -40, -41, -42, -44, -45, -47, -48, -49, -50, VEW-40	8015M & 8260M	794	640	2,600	560	2,600	1.6	5.1	0.18	0.77	<0.55	<2.0	<0.13	<0.5	<0.12	<0.5	0.41	1.8	<0.35	<1.5
12/17/18	2,6,8	RW-1, -4, -5, -9, -10, -11, -14, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -36, -37, -38, -40, -41, -42, -44, -45, -47, -48, -49, -50, VEW-40	8015M & 8260M	968	220	900	200	900	0.47	1.5	<0.12	<0.5	<0.55	<2.0	<0.13	<0.5	<0.12	<0.5	<0.23	<1.0	<0.38	<1.8
03/19/19	2,6,9	RW-1, -4, -5, -9, -10, -11, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, and -50; VEW-40; TFR-5, -7, -9, -10, -11, -13, -16, -19, -21, -24, -26, -28, -30, -35, -36, and -37	8015M & 8260M	766	270	1,100	240	1,100	0.72	2.3	<0.12	<0.50	<0.55	<2.0	<0.13	<0.50	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5
04/03/19	2,6,9	RW-1, -4, -5, -9, -10, -11, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, and -50; VEW-40; TFR-5, -7, -9, -10, -11, -13, -16, -19, -21, -24, -26, -28, -30, -35, -36, and -37	8015M & 8260M	1,984	210	860	190	860	0.28	0.91	<0.12	<0.50	<0.55	<2.0	<0.13	<0.50	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5
04/22/19	2,6,9	RW-1, -4, -5, -9, -10, -11, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, and -50; VEW-40; TFR-5, -7, -9, -10, -11, -13, -16, -19, -21, -24, -26, -28, -30, -35, -36, and -37	8015M & 8260M	2,410	660	2,700	600	2,700	2.9	9.2	0.28	1.2	<0.55	<2.0	<0.13	<0.50	0.13	0.58	0.41	1.8	0.54	2.38
05/06/19	2,6,9	RW-1, -4, -5, -9, -10, -11, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, and -50; VEW-40; TFR-5, -7, -9, -10, -11, -13, -16, -19, -21, -24, -26, -28, -30, -35, -36, and -37	8015M & 8260M	1,860	710	2,900	630	2,900	3.8	12	0.46	2.0	<0.55	<2.0	<0.13	<0.50	<0.12	<0.50	0.64	2.8	0.64	2.8
06/06/19	2,6,9	RW-1, -4, -5, -9, -10, -11, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, and -50; VEW-40; TFR-5, -7, -9, -10, -11, -12, -13, -14, -15, -16, -18, -19, -21, -22, -24, -26, -28, -29, -30, -32, -33, TF-17, TFR-18, TFR-19, TFR-22, TFR-25, TF-18, RTF-18-E, RTF-18-NW	8015M & 8260M	5,375	950	3,900	860	3,900	5.3	17	0.25	1.1	<0.55	<2.0	0.21	0.8	<0.12	<0.5	0.46	2.0	0.46	2.0
07/10/19	2,6,9	Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15, TFR-16), (TRF-5, TFR-7, TFR-9, TFR-10, TFR-12); Eastern Area - (RW-1, RW-11, RW-18, RW-13, RW-4, RW-5, RW-9, RW-10, TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Southern Area - (RW-23, RW-30, RW-31, RW-32, VEW-40, RW-26, RW-28, RW-24, RW-27, RW-33, RW-43, RW-22, RW-29, RW-45, RW-35, RW-40, RW-44, RW-36, RW-37, RW-41, RW-42, RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	1,962	2,100	8,500	1,900	8,500	5.3	17	0.37	1.6	<0.55	<2.0	0.58	2.2	0.25	1.1	0.78	3.4	3.65	4.5

TABLE 8
Historical Summary of Analytical Vapor Sampling Results - Influent Thermal Oxidizer VES
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	VES Wells On Line	Laboratory Analysis Methods	GRO	GRO		GRO as Hexane		Benzene		Ethylbenzene		MTBE		Toluene		o-Xylene		m,p-Xylenes		Total Xylenes	
				Field OVA Reading	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
08/05/19	6	Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15, TFR-16), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-18), (RW-13), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-23), (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-24, RW-27, RW-33, RW-43), (RW-22, RW-29, RW-45), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	2,620	2,700	11,000	2,500	11,000	6.6	21	0.37	1.6	<0.55	<2.0	0.77	2.9	0.25	1.1	0.94	4.1	4.35	5.2
09/09/19	6	Central Area - (TFR-21, TFR-26, TFR-27, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-23), (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-24, RW-27, RW-33, RW-43), (RW-22, RW-29, RW-45), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	2,180	2,300	9,600	2,100	9,600	5.0	16	1.0	4.4	<0.55	<2.0	0.72	2.7	0.28	1.2	1.6	6.9	7.18	8.1
10/31/19		Central Area - (TFR-21, TFR-26, TFR-27, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13, RW-14), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	2,176	3,400	14,000	3,100	14,000	5.6	18	0.92	4.0	<0.55	<2.0	0.61	2.3	0.46	2.0	2.2	9.7	10	12
11/20/19		Central Area - (TFR-21, TFR-26, TFR-27, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13, RW-14), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	1,290	3,200	13,000	2,800	13,000	2.0	6.5	0.83	3.6	<0.55	<2.0	0.53	2.0	0.39	1.7	1.3	5.8	6.19	7.5
12/16/19		Central Area - (TFR-21, TFR-26, TFR-27, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13, RW-14), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	1,566	2,300	9,600	2,100	9,600	5.0	16	1.0	4.4	<0.55	<2.0	0.72	2.7	0.28	1.2	1.6	6.9	7.18	8.1

Legend / Notes:

VES = Vapor extraction system

GRO = Gasoline range organics

MTBE = Methyl tertiary-butyl ether

OVA = Organic Vapor Analyzer (calibrated or correlated to Hexane)

ppmv = Parts per million by volume

µg/L = Micrograms per liter

<1 = Not detected at or above the Method Reporting Limit (MRL) shown.

-- = Not available or not analyzed

- **Reported concentrations are shown in bold.**

1 = Temporary thermal oxidizer VES started on 01/08/18.

2 = VES operations limited to daytime hours due to noise concerns from nearby residents.

3 = Noise abatement measures implemented in an effort to address concerns from nearby residents.

4 = Vapor extraction wells RW-3 through RW-6, RW-8, RW-11, RW-12, and RW-14 through RW-17 brought online 02/14/18 following the completion of installation and tie-in activities per SGI's June 30, 2017 *Remediation Well Installation Update Report*.

5 = No sample collected for analysis during February 2018 due to site condition and system operation status.

6 = Measured individual well concentrations and opened and/or closed select vapor extraction wells (see Table 9A through 9D for details).

7 = Vapor extraction wells RW-19, RW-20, RW-22, RW-24, RW-27 through RW-30, RW-32, RW-33, RW-35 through RW-38, and RW-40 through RW-50 brought online 6/27/18 following the completion of tie-in activities per SGI's June 30, 2017 report.

8 = Temporary thermal oxidizer VES shutdown on 01/08/2019.

9 = Permanent thermal oxidizer VES started on 03/13/2019.

TABLE 9A
Historical Summary of Field Vapor Readings - Former Tank Farm Horizontal Wells
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Depth for Horizontal Wells or Interval in Feet Below Grade for Vertical Wells					
			HW-1	HW-3 **	HW-5	HW-7 **	HW-8	HW-9
			25	25	25	25	60	220
07/09/14	1	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	69	20	140	4,176	--	--
07/18/14		VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	74	21	4,000	15,000	--	--
08/27/14	2	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	0.8	4.5	3.6	0.1	--	--
08/27/14	3	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	2.1	0	2.5	146.0	--	--
10/23/14	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	3.3	20.0	2.9	2	--	--
12/17/14	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	0	0	0	0.2	--	--
03/30/15	4,5	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	24	2	62	382.0	--	--
04/02/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	400	34	270	370	--	--
04/06/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	825	160	835	800	--	--
04/08/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	800	315	600	580	--	--
04/15/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	680	297	545	585	--	--
04/24/15	6	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	1,900	125	533	1,233	--	--
04/27/15	4,6	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	1,455	138	400	810	--	--
06/08/15	6,7	VEW-32, VEW-33, VEW-34	--	--	--	--	--	--
06/12/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	--	--
06/15/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	--	--
06/26/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	--	--
07/16/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	--	--
08/10/15	4,6,8	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5	1,947	28	676	732	--	--
08/20/15	6,9	VEW-32, VEW-33, HW-1, HW-3, HW-5	1,792	--	1,283	1,526	--	--
09/08/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	1,914	--	839	1,811	--	--
09/16/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	1,333	--	756	1,142	--	--
10/09/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	854	--	462	807	--	--
11/04/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	605	--	372	500	--	--
12/07/15	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	880	--	590	760	--	--
01/13/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	640	--	415	390	--	--
02/08/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	520	--	300	240	--	--
03/02/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	400	--	360	180	--	--
04/06/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	420	--	260	220	--	--
05/04/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	400	--	240	180	--	--

TABLE 9A
Historical Summary of Field Vapor Readings - Former Tank Farm Horizontal Wells
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Depth for Horizontal Wells or Interval in Feet Below Grade for Vertical Wells					
			HW-1	HW-3 **	HW-5	HW-7 **	HW-8	HW-9
			25	25	25	25	60	220
06/17/16	6	HW-1, HW-3, HW-5	740	--	470	330	--	--
07/06/16	6,10	HW-1, HW-3, HW-5	480	--	340	220	--	--
08/05/16	6	HW-1, HW-3, HW-5	240	4	190	230.0	--	--
09/01/16	6,10	HW-1, HW-3, HW-5	280	--	220	260	--	--
10/20/16	4,6,10,11	HW-1, HW-3, HW-5, HW-7	200	140	240	280	--	--
11/01/16	6,10	HW-1, HW-3, HW-5, HW-7	160	120	180	260	--	--
12/05/16	4,6,10	HW-1, HW-3, HW-5, HW-7	120	100	200	240	--	--
01/09/17	6,10	HW-1, HW-3, HW-5, HW-7	80	17	180	200	--	--
02/06/17	4,6,10	HW-1, HW-3, HW-5, HW-7	100	13	160	180	--	--
03/20/17	12	HW-1, HW-3, HW-5, HW-7	110	12	120	160	--	--
04/17/17		HW-1, HW-3, HW-5, HW-7	120	10	160	220	--	--
05/03/17		HW-1, HW-3, HW-5, HW-7	100	19	140	260	--	--
06/05/17		HW-1, HW-3, HW-5	107	15	82	211	--	--
07/19/17	13	HW-5, HW-7 and VEW-39	--	49	79	286	--	--
08/09/17	14,15	HW-1, HW-5, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	192	--	94	236	--	--
09/07/17	14,15	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	180	--	60	220	--	--
10/12/17	14,15	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	220	--	80	260	--	--
11/02/17	14,15	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	346	--	105	334	--	--
12/11/17	14,15	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	280	--	90	220	--	--
01/11/18	15,16	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, RW-9, RW-13, RW-18 and RW-26	160	--	120	340	--	--
02/12/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1 through RW-18, and RW-26	60	--	75	290	--	--
03/14/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	--	--	--	--	--	--
03/28/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	200	--	160	240	--	--
04/02/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	180	--	140	220	--	--
05/02/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	140	--	120	200	--	--
06/06/18	15	HW-1, HW-5, HW-7, VEW-39, RW-1, -4, -9, -10, -11, -13, -14 and -18	100	--	80	160	--	--
06/27/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -50	--	--	--	--	--	--
07/16/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -50	--	--	--	--	--	--
07/30/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -50	--	--	--	--	--	--
08/29/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -50	--	--	--	--	--	--

TABLE 9A
Historical Summary of Field Vapor Readings - Former Tank Farm Horizontal Wells
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Depth for Horizontal Wells or Interval in Feet Below Grade for Vertical Wells					
			HW-1	HW-3 **	HW-5	HW-7 **	HW-8	HW-9
			25	25	25	25	60	220
12/03/18	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30,-32, -33, -36, -37, -41, -42, -43, -46-, -47, -48, -49, -50	--	--	--	--	--	--
01/25/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30,-32, -33, -36, -37, -41, -42, -43, -46-, -47, -48, -49, -50	1,127	--	375	474	--	--
02/12/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30,-32, -33, -36, -37, -41, -42, -43, -46-, -47, -48, -49, -50	1,845	--	696	718	--	--
03/06/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30,-32, -33, -36, -37, -41, -42, -43, -46-, -47, -48, -49, -50	1,309	--	1,115	939	--	--
03/12/19	15,17	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30,-32, -33, -36, -37, -41, -42, -43, -46-, -47, -48, -49, -50	--	--	--	--	--	--
03/20/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30,-32, -33, -36, -37, -41, -42, -43, -46-, -47, -48, -49, -50	591	--	234	730	--	--
03/26/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30,-32, -33, -36, -37, -41, -42, -43, -46-, -47, -48, -49, -50	--	--	--	--	--	--
04/09/19	15,18	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30,-32, -33, -36, -37, -41, -42, -43, -46-, -47, -48, -49, -50	>15,000	--	1,541	1,725	--	--
11/25/19	19,20	HW-1, HW-5, HW-7, HW-8, HW-9	730	--	501	730	--	1,820
12/16/19		HW-1, HW-5, HW-7, HW-8, HW-9	4,900	--	1,336	1,215	431	1,375

Legend / Notes:

GRO = Gasoline range organics ppmv = Parts per million by volume OVA = Organic Vapor Analyzer -- = Readings not taken VES = Vapor extraction system

Concentrations measured using calibrated field OVA.

- 1 = Initial readings on carbon VES restart (off line since manually shut down on 05/29/14).
- 2 = Readings prior to well optimization.
- 3 = Readings following well optimization (closed wells VEW-35, VEW-36 and VEW-37 based on field OVA readings).
- 4 = Offline wells temporarily opened for monitoring, then returned to closed position.
- 5 = Readings collected following slightly opening well field valve to vapor extraction system.
- 6 = Select soil biopiles also online.
- 7 = Closed select vapor wells to focus extraction efforts on soil biopiles.
- 8 = Opened vapor extraction wells HW-1, HW-3 and HW-5 based on field OVA readings.
- 9 = Closed vapor extraction well VEW-34 on 8/19/15 based on low to non-detectable lab results (see Table 7 for details).
- 10 = Valved down vapor extraction wells HW-1, HW-3 and/or HW-5 while leaving all other wells closed to focus extraction efforts on soil biopiles.
- 11 = Opened vapor extraction well HW-7 based on field OVA reading.
- 12 = Ex-situ remediation project completed/all soil biopiles disconnected and well valves subsequently set to optimize carbon VES in accordance with recent field OVA readings and/or lab data.
- 13 = Wells VEW-38, VEW-39 and VEW-40 tied into carbon VES during late June 2017 following installation per SGI's March 14, 2017 Well Replacement Report and Work Plan.
- 14 = For full list of wells online, see SGI's November 15, 2017 *Remediation Status Report - Third Quarter 2017* and February 15, 2018 *Remediation Status Report - Fourth Quarter 2017*, respectively.
- 15 = See Tables 9B, 9C and 9D for applicable RW on line well field vapor readings.
- 16 = Wells VEW-38, VEW-39 and VEW-40 disconnected from carbon VES and tied into thermal oxidizer VES upon 01/08/18 startup (see SGI's May 15, 2018 *Remediation Status Report - First Quarter 2018* for details).
- 17 = New Thermal Oxidizer system startup on 3/13/19.
- 18 = VES Carbon system shutdown on 4/18/19 to replace blower.
- 19 = HW-3 abandoned and replaced on 6/7/19 and 6/10/19 and replaced with new horizontal wells HW-8 and HW-9. Nw HW's connected to VES Carbon system on 7/16/19.
- 20 = VES Carbon system restart on 11/21/19 after new blower installation.

* = Carbon VES only through 2017 and also includes thermal oxidizer VES wells online after 2017.

** = Tabulated data corrected after determining well HW-3 was incorrectly labeled as well HW-7 and vice versa during late July 2017 re-development work.

TABLE 9C
Historical Summary of Field Vapor Readings - Eastern Area Vertical Wells
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade																							
			Truckline #1, VECV #1					Truckline #1, VECV #2					Truckline #1, VECV #3					Truckline #1, VECV #4				Truckline #1, VECV #5				
			RW-1	RW-6	RW-15	RW-16	RW-17	VEW-32	VEW-37	RW-2	RW-7	RW-11	VEW-33	VEW-36	RW-8	RW-12	RW-18	VEW-34	VEW-35	RW-13	RW-14	RW-3	RW-4	RW-5	RW-9	RW-10
			15 - 35	17 - 37	18 - 38	14 - 34	19 - 39	10 - 25	10 - 25	13 - 33	17 - 37	16 - 36	10 - 25	10 - 25	18.5 - 38.5	14 - 34	18 - 38	10 - 25	10 - 25	15 - 35	14 - 34	17 - 37	14 - 34	14 - 34	15 - 35	14 - 34
07/09/14	1	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	154	20	--	--	--	10	6.4	--	--	--	4.2	5.5	--	--	--	--	--	--	--
07/18/14		VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	134	18	--	--	--	5.6	4.1	--	--	--	3.3	2.1	--	--	--	--	--	--	--
08/27/14	2	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	6.3	0	--	--	--	0.4	0	--	--	--	0.4	0.2	--	--	--	--	--	--	--
08/27/14	3	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	174	--	--	--	--	0.2	--	--	--	--	0	--	--	--	--	--	--	--	--
10/23/14	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	191	151	--	--	--	22	9.1	--	--	--	8.0	28	--	--	--	--	--	--	--
12/17/14	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	62	11	--	--	--	37	24	--	--	--	2.0	15	--	--	--	--	--	--	--
03/30/15	4,5	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	2.5	1.0	--	--	--	0.1	20	--	--	--	0.3	4.8	--	--	--	--	--	--	--
04/02/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	25	0	--	--	--	4.1	0	--	--	--	0	0	--	--	--	--	--	--	--
04/06/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	171	0	--	--	--	5.7	0	--	--	--	3.0	0	--	--	--	--	--	--	--
04/08/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	195	0	--	--	--	35	0	--	--	--	25	0	--	--	--	--	--	--	--
04/15/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	273	0	--	--	--	223	0	--	--	--	87	0	--	--	--	--	--	--	--
04/24/15	6	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/27/15	4,6	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	210	2.4	--	--	--	324	5.7	--	--	--	115	4.8	--	--	--	--	--	--	--
06/08/15	6,7	VEW-32, VEW-33, VEW-34	--	--	--	--	--	180	--	--	--	--	130	--	--	--	--	40	--	--	--	--	--	--	--	--
06/12/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	--	194	--	--	--	--	126	--	--	--	--	80	--	--	--	--	--	--	--	--
06/15/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	--	158	--	--	--	--	77	--	--	--	--	39	--	--	--	--	--	--	--	--
06/26/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	--	123	--	--	--	--	104	--	--	--	--	20	--	--	--	--	--	--	--	--
07/16/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	--	256	--	--	--	--	147	--	--	--	--	17	--	--	--	--	--	--	--	--
08/10/15	4,6,8	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5	--	--	--	--	--	456	3.9	--	--	--	334	2.2	--	--	--	63	16	--	--	--	--	--	--	--
08/20/15	6,9	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	530	--	--	--	--	329	--	--	--	--	--	--	--	--	--	--	--	--	--
09/08/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	395	--	--	--	--	162	--	--	--	--	--	--	--	--	--	--	--	--	--
09/16/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	266	--	--	--	--	184	--	--	--	--	--	--	--	--	--	--	--	--	--
10/09/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	343	--	--	--	--	258	--	--	--	--	--	--	--	--	--	--	--	--	--
11/04/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	401	--	--	--	--	184	--	--	--	--	--	--	--	--	--	--	--	--	--
12/07/15	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	327	14	--	--	--	246	12	--	--	--	88	22	--	--	--	--	--	--	--
01/13/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	220	17	--	--	--	260	22	--	--	--	72	34	--	--	--	--	--	--	--
02/08/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	160	11	--	--	--	220	28	--	--	--	55	42	--	--	--	--	--	--	--
03/02/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	120	15	--	--	--	240	32	--	--	--	47	31	--	--	--	--	--	--	--
04/06/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	60	12	--	--	--	380	18	--	--	--	29	22	--	--	--	--	--	--	--
05/04/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	90	19	--	--	--	340	25	--	--	--	36	18	--	--	--	--	--	--	--
06/17/16	6	HW-1, HW-3, HW-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 9C
Historical Summary of Field Vapor Readings - Eastern Area Vertical Wells
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade																								
			Truckline #1, VECV #1					Truckline #1, VECV #2					Truckline #1, VECV #3					Truckline #1, VECV #4				Truckline #1, VECV #5					
			RW-1	RW-6	RW-15	RW-16	RW-17	VEW-32	VEW-37	RW-2	RW-7	RW-11	VEW-33	VEW-36	RW-8	RW-12	RW-18	VEW-34	VEW-35	RW-13	RW-14	RW-3	RW-4	RW-5	RW-9	RW-10	
			15 - 35	17 - 37	18 - 38	14 - 34	19 - 39	10 - 25	10 - 25	13 - 33	17 - 37	16 - 36	10 - 25	10 - 25	18.5 - 38.5	14 - 34	18 - 38	10 - 25	10 - 25	15 - 35	14 - 34	17 - 37	14 - 34	14 - 34	15 - 35	14 - 34	
07/06/16	6,10	HW-1, HW-3, HW-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
08/05/16	6	HW-1, HW-3, HW-5	--	--	--	--	--	20	8.3	--	--	--	140	34	--	--	--	11	9.0	--	--	--	--	--	--	--	
09/01/16	6,10	HW-1, HW-3, HW-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
10/20/16	4,6,10,11	HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	32	6.4	--	--	--	80	30	--	--	--	9.1	7.3	--	--	--	--	--	--	--	
11/01/16	6,10	HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/05/16	4,6,10	HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	20	7.1	--	--	--	60	20	--	--	--	17	8.8	--	--	--	--	--	--	--	
01/09/17	6,10	HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
02/06/17	4,6,10	HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	12	5.4	--	--	--	45	14	--	--	--	11	6.1	--	--	--	--	--	--	--	
03/20/17	12	HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/17/17		HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
05/03/17		HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	15	6.7	--	--	--	33	19	--	--	--	17	8.1	--	--	--	--	--	--	--	
06/05/17		HW-1, HW-3, HW-5	--	--	--	--	--	10	11	--	--	--	14	12	--	--	--	8.0	7.1	--	--	--	--	--	--	--	
07/19/17	13	HW-5, HW-7 and VEW-39	--	--	--	--	--	12	4.8	--	--	--	47	6.2	--	--	--	9.3	4.1	--	--	--	--	--	--	--	
08/09/17	1,2,3	HW-1, HW-5, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	1,268	--	--	--	--	5.5	5.4	16	120	--	27	3.7	--	76	374	7.7	2.3	2,440	--	--	--	--	1,164	--	
09/07/17	2,3	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	3,860	--	--	--	--	9.2	10	99	495	--	20	14	--	90	679	11	5.5	2,870	--	--	--	--	320	--	
10/12/17	2,3	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	2,480	--	--	--	--	13	12	75	310	--	28	19	--	120	580	14	9.3	2,620	--	--	--	--	660	--	
11/02/17	2,2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	3,140	--	--	--	--	10	9.1	50	225	--	23	15	--	140	430	11	6.6	3,200	--	--	--	--	840	--	
12/11/17	2,3	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	2,250	--	--	--	--	7.7	9.1	60	180	--	20	8.8	--	80	350	9.3	5.1	3,040	--	--	--	--	590	--	
03/14/18	4,5	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	2,520	15	12	40	28	7.2	4.3	31	181	420	2.4	0.4	5.1	5.5	937	8.1	7.3	2,000	1,235	68	598	4,600	2,824	>10,000	
06/27/19			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/16/18	4,5	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	725	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/30/18	4,5	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	--	--	--	--	--	--	--	401	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
08/29/18	4,5	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	--	--	--	--	--	--	--	475	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/03/18	4,5	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	--	--	--	--	--	--	--	--	641	--	--	--	952	--	--	--	8,157	--	>15,000	>15,000	>15,000	>15,000		
03/12/19	3,6	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	190	0	0	16	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
03/27/19	3,6	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	838	0	--	--	--	--	--	402	--	1,172	--	--	--	992	--	--	13,772	--	--	--	--	1,021	1,850	6,280	2,150
06/05/19	3	RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	574	--	--	--	--	--	--	--	--	10	--	--	--	420	--	--	3,420	--	--	--	--	776	1,083	4,210	1,143
07/23/19	3	(RW-1), (RW-11), (RW-18), (RW-13), (RW-4, RW-5, RW-9, RW-10)	643	--	--	--	--	--	--	--	--	6	--	--	--	130	--	--	724.0	--	--	--	--	851	805	2,750	1,238

TABLE 9C
Historical Summary of Field Vapor Readings - Eastern Area Vertical Wells
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade																							
			Truckline #1, VECV #1					Truckline #1, VECV #2					Truckline #1, VECV #3					Truckline #1, VECV #4				Truckline #1, VECV #5				
			RW-1 15 - 35	RW-6 17 - 37	RW-15 18 - 38	RW-16 14 - 34	RW-17 19 - 39	VEW-32 10 - 25	VEW-37 10 - 25	RW-2 13 - 33	RW-7 17 - 37	RW-11 16 - 36	VEW-33 10 - 25	VEW-36 10 - 25	RW-8 18.5 - 38.5	RW-12 14 - 34	RW-18 18 - 38	VEW-34 10 - 25	VEW-35 10 - 25	RW-13 15 - 35	RW-14 14 - 34	RW-3 17 - 37	RW-4 14 - 34	RW-5 14 - 34	RW-9 15 - 35	RW-10 14 - 34
08/26/19	3,7	(RW-1), (RW-18), (RW-13), (RW-4, RW-5, RW-9, RW-10)	678	2	3	19	3	--	--	33	52	5	--	40.0	37	7	7	13.0	7.0	1,520	1,380	522	430	512	1,455	502
09/23/19	3	(RW-1), (RW-18), (RW-13), (RW-4, RW-5, RW-9, RW-10)	682	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	177	258	306	179	145	679	637
12/03/19	3	(RW-1), (RW-13, RW-14), (RW-4, RW-5, RW-9, RW-10)	4	2	2	0	0	0	0	2	434	0	0	0	0	0	0	10	6	226	124	0	28	0	116	146

Legend / Notes:

GRO = Gasoline range organics ppmv = Parts per million by volume OVA = Organic Vapor Analyzer -- = Readings not taken VES = Vapor extraction system

Concentrations measured using calibrated field OVA.

1 = Wells RW-1, RW-2, RW-7, RW-9, RW-12, RW-13 and RW-18 initially tied into carbon VES during early August 2017 following installation per SGI's June 30, 2017 *Remediation Well Installation Update Report*.

2 = For full list of wells on line, see SGI's November 15, 2017 *Remediation Status Report - Third Quarter 2017* and *February 15, 2018 Remediation Status Report - Fourth Quarter 2017*, respectively.

3 = See Tables 9A, 9B and 9D for applicable HW, VEW and RW on line well field vapor readings.

4 = Wells RW-1, RW-2, RW-7, RW-9, RW-12, RW-13 and RW-18 disconnected from carbon VES and tied into thermal oxidizer VES upon 01/08/18 startup.

5 = Wells RW-3 through RW-6, RW-8, RW-10, RW-11, and RW-14 through RW-17 tied into thermal oxidizer VES during mid-February 2018 following installation per SGI's June 30, 2017 *Remediation Well Installation Update Report*.

6 = New Thermal Oxidizer system startup on 3/13/19.

7 = Closed wells were opened to check for rebound concentrations.

* = Carbon VES only through 2017 and also includes thermal oxidizer VES wells online after 2017.

TABLE 9D
Historical Summary of Field Vapor Readings - Southern Area Vertical Wells
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade																																				
			Trunkline #2, VECV #6		Trunkline #2, VECV #7					Trunkline #2, VECV #8					Trunkline #2, VECV #9					Trunkline #2, VECV #10					Trunkline #2, VECV #11					Trunkline #2, VECV #12					Trunkline #2, VECV #13				
			RW-21	RW-23	VEW-39	RW-30	RW-31	RW-32	RW-34	VEW-38	VEW-40	RW-26	RW-28	RW-24	RW-25	RW-27	RW-33	RW-43	RW-19	RW-20	RW-22	RW-29	RW-45	RW-35	RW-38	RW-39	RW-40	RW-44	RW-36	RW-37	RW-41	RW-42	RW-46	RW-47	RW-48	RW-49	RW-50		
			13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	14 - 33	15 - 33	13 - 33	13 - 33	13 - 33	13 - 33	15 - 33	13 - 33	13 - 33	13 - 33	13 - 33	15 - 33	13 - 33	13 - 33	15 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	
08/09/17	1,2	HW-1, HW-5, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	160	787	--	6,550	7,165	820	--	--	4,340	8,420	1,525	--	--	1,230	--	--	129	1,775	620	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
09/07/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	110	141	--	8,240	3,400	715	--	--	3,290	8,080	1,423	--	--	836	--	--	58	1,379	1,123	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
10/12/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	165	340	--	5,800	5,200	955	--	--	3,880	9,190	1,200	--	--	900	--	--	220	1,800	818	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
11/02/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	140	250	--	7,330	4,300	1,060	--	--	2,900	6,400	1,770	--	--	620	--	--	170	1,410	909	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
12/11/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	120	230	--	6,400	3,900	700	--	--	3,400	7,170	1,605	--	--	510	--	--	190	1,660	764	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
03/14/18		HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	80	320	--	2,900	1,730	800	--	--	1,800	3,100	950	--	--	180	--	--	280	840	660	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
06/27/18	3	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -50	55	1,896	--	32	80	421	80	--	1,821	5,000	459	89	1,215	843	--	43	42	2,595	2,563	--	416	134	24	1,782	--	452	1,509	849	3,040	--	191	886	728	56			
07/30/18	3	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -51	--	--	--	1,630	1,253	--	--	3,261	>15,000	1,383	--	767	1,283	--	--	--	2,928	1,341	--	522	--	--	778	--	2,166	1,930	--	>15,000	--	3,968	672	1,008	692				
08/29/18	3	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -52	--	475	--	4,160	3,378	1,715	1,630	--	>15,000	2,127	>15,000	1,320	--	699	1,324	--	--	2,558	1,721	--	658	--	--	856	--	2,616	2,049	4,925	>15,000	--	4,460	641	2,359	674			
12/03/18	3	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, 32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	389	--	4,373	4,284	--	3,378	--	--	>15,000	857	--	2,685	1,013	--	--	--	362	--	--	532	--	--	538	--	1,507	1,123	>15,000	>15,000	--	--	596	61	309			
03/27/19	3	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, 32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	402	--	1,613	3,764	1,013	4,284	--	>15,000	316	4,400	124	--	214	975	--	--	402	--	--	399	--	--	1,116	--	961	715	5,575	>15,000	--	>15,000	549	2,740	--			
05/08/19	3	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, 32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	14	--	--	--	283	3,764	--	--	--	--	--	--	7	--	--	--	569	172	--	--	--	14	94	--	--	--	>15,000	248	--	1,107	709	2,740	--			
05/31/19	3	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, 32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	13	--	1,326	896	325	--	--	246	3,960	85	--	80	181	--	--	--	493	223	--	--	--	--	--	--	--	--	--	--	--	--	42	--	--			
06/05/19		HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, 32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	177	--	--	--	--	1,414	--	384	639	1,107	581				
07/22/19		(RW-23), (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-24, RW-27, RW-33, RW-43), (RW-22, RW-29, RW-45), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	23	--	827	679	293	--	2,250	370	3,880	145	--	75	205	61	--	--	634	311	65	123	--	--	203	224	461	245	1,743	1,465	--	383	780	1,175	688			
08/26/19	7	(RW-23), (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-24, RW-27, RW-33, RW-43), (RW-22, RW-29, RW-45), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	4	11	10	431	407	331	15	25	2,460	229	2,440	154	12	64	189	42	10	10	505	211	59	98	74	7	135	179	235	153	986	813	75	397	794	950	630		
09/23/19		(RW-23), (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-24, RW-27, RW-33, RW-43), (RW-22, RW-29, RW-45), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	12	--	453	340	325	--	23	1,670	233	1,752	89	--	47	180	44	--	--	578	320	29	101	--	--	126	15	316	264	1,113	750	--	147	313	128	267		
12/04/19		(RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	0	0	8	392	226	160	18	18	1,838	314	2,454	10	14	4	140	8	--	--	--	--	120	2	4	170	24	344	216	1,126	638	28	270	504	80	400			

Legend / Notes:
 GRO = Gasoline range organics ppmv = Parts per million by volume OVA = Organic Vapor Analyzer -- = Readings not taken VES = Vapor extraction system
 Concentrations measured using calibrated field OVA.
 1 = Wells RW-20 through RW-24, RW-26, and RW-28 through RW-33 initially tied into carbon VES during early August 2017 following installation per SGI's June 30, 2017 Remediation Well Installation Update Report.
 2 = For full list of wells on line, see SGI's November 15, 2017 Remediation Status Report - Third Quarter 2017 and February 15, 2018 Remediation Status Report - Fourth Quarter 2017, respectively.
 3 = See Tables 9A, 9B and 9C for applicable HW, VEW and RW on line well field vapor readings.
 4 = Wells RW-20 through RW-24, RW-26, and RW-28 through RW-33 disconnected from carbon VES and tied into thermal oxidizer VES upon 01/08/18 startup (see SGI's May 15, 2018 Remediation Status Report - First Quarter 2018 for details).
 5 = Wells RW-19, RW-25, RW-27, RW-34, and RW-39 through RW-46 tied into thermal oxidizer VES during late June 2018 following installation per SGI's July 2018 Well Installation Completion Report.
 6 = New Thermal Oxidizer system startup on 3/13/19.
 7 = Closed wells were opened to check for rebound concentrations.
 * = Carbon VES only through 2017 and also includes thermal oxidizer VES wells online after 2017.

TABLE 10
Historical Summary of Analytical Vapor Sampling Results - Individual Wells
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Well ID	Sample Date	Notes	Laboratory Analysis Methods	GRO Field OVA Reading		GRO		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)
HW-1	07/09/14	1	8015M & 8260M	69	23	96	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0	
	10/23/14			3.3	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0	
	04/27/15			1,455	830	3,400	1.1	3.5	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	08/10/15			1,947	2,700	11,000	1.0	3.3	<0.13	<0.50	0.25	1.1	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	02/08/16			520	440	1,800	0.88	2.8	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	04/06/16			420	340	1,400	1.0	3.2	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	01/18/17	2		80	88	310	0.59	1.9	0.18	0.67	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	11/02/17			346	240	1,000	0.59	1.9	<0.13	<0.50	0.15	0.66	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	02/12/18			60	27	110	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	03/28/18			167	180	730	0.34	1.1	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	08/06/18			--	110	450	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0	
02/12/19		1,845		810	3,300	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0		
11/25/19		730		200	820	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0		
HW-3 *	07/09/14	1		20	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0	
	10/23/14			20	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0	
	04/27/15			138	66	270	0.28	0.9	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	08/10/15			28	7.3	30	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	01/18/17	2		17	8.5	30	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
HW-5	07/09/14	1		140	46	190	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0	
	10/23/14			2.9	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0	
	04/27/15			400	290	1,200	0.17	0.55	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	0.30	1.3	<0.55	<2.0	
	08/10/15			676	930	3,800	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	02/08/16		300	320	1,300	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	04/06/16		260	210	870	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	08/08/16		190	120	480	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	01/18/17	2	180	85	300	0.34	1.1	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	11/02/17		105	39	160	0.21	0.7	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	02/12/18		75	90	370	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	03/28/18		91	140	560	0.63	2.0	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
08/06/18		--	100	410	0.50	1.6	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
02/12/19		696	270	1,100	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0			
11/25/19		501	170	710	0.56	1.8	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0			
HW-7 *	07/09/14	1	4,176	2,055	8,400	3.1	10	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0		
	10/23/14		2.0	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0		
	04/27/15		810	590	2,400	3.4	11	0.69	2.6	0.32	1.4	0.20	0.88	1.2	5.0	<0.55	<2.0		
	08/10/15		732	950	3,900	6.3	20	0.34	1.3	0.64	2.8	0.30	1.3	2.3	10	<0.55	<2.0		
	02/08/16		240	190	780	1.2	3.8	0.37	1.4	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	04/06/16		220	170	710	1.4	4.4	0.53	2.0	<0.12	<0.50	<0.12	<0.50	0.28	1.2	<0.55	<2.0		
	08/08/16		230	170	710	2.0	6.5	0.56	2.1	<0.12	<0.50	<0.12	<0.50	0.32	1.4	<0.55	<2.0		
	01/18/17	2	200	110	370	2.0	6.5	0.82	3.1	0.12	0.52	0.12	0.51	0.35	1.5	<0.55	<2.0		
	05/03/17		260	240	1,000	2.1	6.6	1.2	4.6	0.15	0.64	0.15	0.66	0.51	2.2	<0.55	<2.0		
	11/02/17		334	210	860	2.3	7.4	1.2	4.4	0.18	0.78	0.16	0.68	0.51	2.2	<0.55	<2.0		
	02/12/18		290	230	960	1.3	4.0	0.48	1.8	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	03/28/18		270	190	760	0.59	1.9	0.21	0.79	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	08/06/18		--	210	840	1.30	4.2	0.80	3.00	0.12	0.53	0	1	0	2	<0.55	<2.0		
02/12/19		696	240	1,000	2.30	7.2	0.88	3.30	0.14	0.60	0	1	0	2	<0.55	<2.0			
11/25/19		730	240	1,000	0.53	1.7	0.42	1.60	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			
HW-8	11/25/19	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
HW-9	11/25/19	8	1,820	390	1,600	<0.16	<0.5	<0.13	<0.50	0.25	1.1	0.35	1.50	0.94	4.10	<0.55	<2.0		
VEW-32	07/09/14	1	154	132	540	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0		
	10/23/14		191	19	76	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0		
	04/27/15		210	320	1,300	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	08/10/15		456	460	1,900	0.66	2.1	<0.13	<0.50	0.23	1.0	<0.12	<0.50	0.46	2.0	<0.55	<2.0		
	02/08/16		160	130	550	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	04/06/16		60	17	68	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
06/27/17		9.0	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0			

TABLE 10
Historical Summary of Analytical Vapor Sampling Results - Individual Wells
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Well ID	Sample Date	Notes	Laboratory Analysis Methods	GRO Field OVA Reading		GRO		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)
VEW-33	07/09/14	1	8015M & 8260M	10	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0	
	10/23/14			22	6.6	27	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0	
	04/27/15			324	270	1,100	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	08/10/15			334	290	1,200	0.50	1.6	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	0.32	1.4	<0.55	<2.0	
	02/08/16			220	270	1,100	0.38	1.2	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	04/06/16			380	340	1,400	0.50	1.6	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	0.25	1.1	<0.55	<2.0	
06/27/17	5.8	<4.9		<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
VEW-34	07/09/14	1		4.2	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0	
	10/23/14			8.0	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0	
	04/27/15			115	44	180	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	08/10/15			63	14	57	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	06/27/17			7.0	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55
VEW-35	07/09/14	1		5.5	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0	
	10/23/14			28	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0	
	04/27/15			4.8	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	08/10/15			16.4	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	06/27/17			4.5	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
VEW-36	07/09/14	1		6.4	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0	
	10/23/14			9.1	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0	
	04/27/15			5.7	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	08/10/15			2.2	8.1	33	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	06/27/17			6.7	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
VEW-37	07/09/14	1		20	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0	
	10/23/14			151	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0	
	04/27/15			2.4	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	08/10/15			3.9	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	06/27/17			5.7	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
VEW-38	06/27/17	3		331	37	150	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	07/27/17		--	490	2,000	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	09/07/17		480	440	1,800	<0.16	<0.50	<0.13	<0.50	0.17	0.74	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	06/27/18		51	8.3	34	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
VEW-39	06/27/17	3	130	37	150	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	07/27/17		--	1,100	4,300	0.41	1.3	<0.13	<0.50	0.78	3.4	<0.12	<0.50	0.62	2.7	<0.55	<2.0		
	09/07/17		190	29	120	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
VEW-40	06/27/17	3	3,018	2,700	11,000	0.28	0.88	<0.13	<0.50	0.99	4.3	<0.12	<0.50	0.81	3.5	<0.55	<2.0		
	07/27/17		--	8,800	36,000	1.4	4.4	<0.13	<0.50	8.5	37	0.23	1.0	5.3	23	<0.55	<2.0		
	09/07/17		9,200	7,600	31,000	0.97	3.1	<0.13	<0.50	3.7	16	0.25	1.1	2.2	9.0	<0.55	<2.0		
	06/27/18		5,100	2,900	12,000	<0.78	<2.5	<0.78	<2.5	0.78	3.4	<0.58	<2.5	<1.2	<5.0	<2.8	<10		
RW-1	08/09/17	5	1,268	1,100	4,400	1.7	5.4	3.7	14	0.85	3.7	0.55	2.4	2.5	11	<0.55	<2.0		
	09/07/17		3,860	2,300	9,600	6.3	20	16	60	2.8	12	2.0	8.9	7.4	32	<0.55	<2.0		
RW-2	08/09/17	5	16	39	160	0.19	0.61	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	03/14/18		31	22	92	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
RW-3	03/14/18	6	68	37	150	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
RW-4	03/14/18	6	598	460	1,900	1.8	5.9	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
RW-5	03/14/18	6	4,600	2,900	12,000	1.7	5.5	<0.13	<0.50	0.78	3.4	0.18	0.76	2.5	11	<0.55	<2.0		
RW-7	08/09/17	5	120	320	1,300	<0.16	<0.50	0.14	0.53	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	03/14/18		54	64	260	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		

TABLE 10
Historical Summary of Analytical Vapor Sampling Results - Individual Wells
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Well ID	Sample Date	Notes	Laboratory Analysis Methods	GRO Field OVA Reading		GRO		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	
RW-9	08/09/17	5	8015M & 8260M	1,164	1,100	4,500	0.44	1.4	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	09/07/17			320	240	1,000	0.75	2.4	<0.13	<0.50	0.19	0.83	<0.12	<0.50	0.41	1.8	<0.55	<2.0	
	03/14/18			2,824	2,000	8,100	18	59	<0.13	<0.50	5.1	22	3.0	13	9.4	41	<0.55	<2.0	
RW-10	03/14/18	6		>10,000	14,000	58,000	14	45	<0.13	<0.50	0.69	3.0	0.53	2.3	5.8	25	<0.55	<2.0	
RW-11	03/14/18	6		420	230	950	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RW-12	08/09/17	5		76	100	420	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	03/14/18			5.5	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RW-13	08/09/17	5		2,440	1,800	7,400	1.6	5.0	<0.13	<0.50	0.22	0.95	0.28	1.2	1.7	7.4	<0.55	<2.0	
	09/07/17			2,870	1,800	7,400	5.9	19.0	<0.13	<0.50	1.8	7.9	1.5	6.4	6.4	28	<0.55	<2.0	
	03/14/18			2,000	7,300	30,000	9.1	29	<0.13	<0.50	0.64	2.8	0.46	2.0	1.8	7.6	<0.55	<2.0	
RW-14	03/14/18	6		1,235	950	3,900	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RW-18	08/09/17	5		374	170	700	1.3	4.2	<0.13	<0.50	0.32	1.4	0.28	1.2	1.2	5.3	<0.55	<2.0	
	09/07/17			679	320	1,300	2.2	7.1	0.7	3	0.62	2.7	0.53	2.3	2.2	9.6	<0.55	<2.0	
	03/14/18			937	490	2,000	1.4	4.4	<0.13	<0.50	<0.12	<0.50	0.25	1.1	0.76	3.3	<0.55	<2.0	
RW-19	06/27/18	4		43	4.9	20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RW-20	08/16/17	5		129	73	300	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	09/07/17			58	61	250	<0.16	<0.50	<0.13	<0.50	0.16	0.69	<0.12	<0.50	0.32	1.4	<0.55	<2.0	
	06/27/18	4		42	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RW-21	08/09/17	5		160	95	390	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	06/27/18			4	55	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-22	08/16/17	5		1,775	1,600	6,700	0.38	1.2	<0.13	<0.50	3.2	14	0.20	0.88	4.6	20	<0.55	<2.0	
	09/07/17			1,379	1,200	5,000	0.44	1.4	<0.13	<0.50	2.2	9.5	0.48	2.1	3.2	14	<0.55	<2.0	
	06/27/18			4	2,595	1,200	4,800	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<10
RW-23	08/09/17	5		787	660	2,700	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	09/07/17			141	83	340	<0.16	<0.50	<0.13	<0.50	0.25	1.1	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RW-24	08/16/17	5		1,525	1,400	5,900	<0.16	<0.50	<0.13	<0.50	0.19	0.82	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	09/07/17			1,423	930	3,800	<0.16	<0.50	<0.13	<0.50	0.37	1.6	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	06/27/18			4	459	98	400	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-25	06/27/18	4		89	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RW-26	08/09/17	5		4,340	7,100	29,000	0.23	0.75	<0.13	<0.50	0.94	4.1	<0.12	<0.50	0.35	1.5	<0.55	<2.0	
	09/07/17			3,290	3,200	13,000	<0.16	<0.50	<0.13	<0.50	0.88	3.8	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	06/27/18			4	1,821	710	2,900	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<10
RW-27	06/27/18	4	1,215	420	1,700	<0.31	<1.0	<0.27	<1.0	<0.23	<1.0	<0.23	<1.0	<0.46	<2.0	<1.1	<4.0		
RW-28	08/09/17	5	8,420	7,600	31,000	2.4	7.6	<0.13	<0.50	9.4	41	0.28	1.2	3.7	16	<0.55	<2.0		
	09/07/17		8,080	7,300	30,000	1.7	5.5	<0.13	<0.50	8.1	35	0.25	1.1	3.0	13	<0.55	<2.0		
	06/27/18		4	5,000	4,200	17,000	<0.78	<2.5	<0.66	<2.5	2.3	10	<0.58	<2.5	1.9	8.2	<2.8	<10	
RW-29	08/09/17	5	620	640	2,600	0.16	0.52	<0.13	<0.50	0.17	0.75	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	09/07/17		1,123	930	3,800	0.17	0.54	<0.13	<0.50	0.13	0.56	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	06/27/18		4	2,563	780	3,200	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<10	
RW-30	08/09/17	5	6,550	12,000	50,000	0.85	2.7	<0.13	<0.50	17	72	<0.12	<0.50	0.81	3.5	<0.55	<2.0		
	09/07/17		8,240	3,200	13,000	<0.16	<0.50	<0.13	<0.50	6.9	30	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	06/27/18		4	32	13	54	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RW-31	08/09/17	5	7,165	6,800	28,000	1.2	3.9	0.20	0.76	3.2	14	1.6	7.1	3.7	16	<0.55	<2.0		
	09/07/17		3,400	2,900	12,000	0.4	1.4	<0.13	<0.50	3.0	13	1.1	4.9	2.3	10	<0.55	<2.0		
	06/27/18		4	80	12	51	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RW-32	08/16/17	5	820	880	3,600	<0.16	<0.50	<0.13	<0.50	0.78	3.4	<0.12	<0.50	0.28	1.2	<0.55	<2.0		
	09/07/17		715	810	3,300	0.17	0.54	<0.13	<0.50	0.55	2.4	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	06/27/18	4	421	66	270	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		

TABLE 10
Historical Summary of Analytical Vapor Sampling Results - Individual Wells
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Well ID	Sample Date	Notes	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
RW-33	08/16/17	5	8015M & 8260M	1,230	860	3,500	<0.16	<0.50	<0.13	<0.50	0.44	1.9	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	09/07/17			836	640	2,600	<0.16	<0.50	<0.13	<0.50	0.35	1.5	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/18	4		843	210	840	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-34	06/27/18	4		46	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-35	06/27/18	4		416	83	340	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-36	06/27/18	4		452	440	1,800	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<10
RW-37	06/27/18	4		1,509	210	850	<0.31	<1.0	<0.27	<1.0	<0.23	<1.0	<0.23	<1.0	<0.46	<2.0	<1.1	<4.0
RW-38	06/27/18	4		134	24	100	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-39	06/27/18	4		24	37	150	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-40	06/27/18	4		1,782	2,900	12,000	<0.78	<2.5	<0.66	<2.5	0.78	3.4	<0.58	<2.5	<1.2	<5.0	<2.8	<10
RW-41	06/27/18	4		849	1,300	5,300	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<10
RW-42	06/27/18	4		3,040	1,500	6,200	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<10
RW-43	06/27/18	4		886	230	950	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-44	06/27/18	4		728	88	360	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	2.2	9.4	0.60	2.6	<0.55	<2.0
RW-45	06/27/18	4		56	14	57	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	0.12	0.50	<0.23	<1.0	<0.55	<2.0
RW-46	06/27/18	4		191	44	180	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-47	06/27/18	4		751	240	1,000	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-48	06/27/18	4		1,454	540	2,200	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-49	06/27/18	4		823	180	720	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-50	06/27/18	4		5,000	1,600	6,500	<0.78	<2.5	<0.66	<2.5	1.2	5.0	<0.58	<2.5	<1.2	<5.0	<2.8	<10
RTF-18-NW	10/05/17	7		9,000	16,000	67,000	100	330	0.18	0.66	12	52	13	56	60	260	<0.55	<2.0
	10/09/17	7		3,635	18,000	72,000	170	550	<1.3	<5.0	17	75	19	83	92	400	<5.5	<20

Legend / Notes:

GRO = Gasoline range organics

OVA = Organic Vapor Analyzer (calibrated or correlated to Hexane)

MTBE = Methyl tertiary-butyl ether

ppmv = Parts per million by volume

µg/L = Micrograms per liter

<0.6 = Not detected at or above the method reporting limit (MRL) shown.

-- = Not measured

- Reported concentrations are shown in bold.

1 = Samples collected following system restart (off line since manual shut down on 05/29/14).

2 = Field OVA reading from 01/09/17.

3 = System tie in work to allow for vapor extraction completed during late June 2017 following installation per SGI's March 14, 2017 *Well Replacement Report and Work Plan*.

4 = System tie in work to allow for vapor extraction completed during late June 2018 following installation per SGI's July 2018 *Well Installation Completion Report*.

5 = System tie in work to allow for vapor extraction completed during early August 2017 following installation per SGI's June 30, 2017 *Remediation Well Installation Update Report*.

6 = System tie in work to allow for vapor extraction completed during mid-February 2018 following installation per SGI's June 30, 2017 *Remediation Well Installation Update Report*.

7 = Well temporarily utilized as an extraction point as part of vacuum enhanced LNAPL recovery testing per SGI's July 2018 *LNAPL Recovery Testing Report*.

8 = HW-3 abandoned and replaced on 6/7/19 and 6/10/19 and replaced with new horizontal wells HW-8 and HW-9. Nw HW's connected to VES Carbon system on 7/16/19.

* = Tabulated data corrected after determining well HW-3 was incorrectly labeled as well HW-7 and vice versa during late July 2017 re-development work.

TABLE 11A
Biosparge System Operations Summary - October
 DFSP Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	Cumulative Blower Runtime (hours)	Blower Discharge Pressure (psig)	Blower Discharge Temperature (°F)	HE Outlet Temperature (°F)	Main Header Pressure (psig)	Sparge Total Flow-dP (in WC)	Sparge Total Pressure (psig)	Sparge Total Temperature (°F)
10/01/19	*		3059.1	--	--	--	--	5.5	--	--
10/02/19	Technician		3082.5	7	225	102	8	8.5	6	95
10/03/19	*		3106.6	--	--	--	--	8.5	--	--
10/04/19	*		3130.7	--	--	--	--	8.5	--	--
10/05/19	*		3154.8	--	--	--	--	8.5	--	--
10/06/19	*		3179.0	--	--	--	--	8.5	--	--
10/07/19	*		3203.1	--	--	--	--	8.5	--	--
10/08/19	*		3227.2	--	--	--	--	8.5	--	--
10/09/19	Technician		3251.3	12	250	100	13	7	10	95
10/10/19	*		3262.1	--	--	--	--	7	--	--
10/11/19	*		3272.9	--	--	--	--	7	--	--
10/12/19	*		3283.7	--	--	--	--	7	--	--
10/13/19	*		3294.5	--	--	--	--	7	--	--
10/14/19	*		3305.3	--	--	--	--	7	--	--
10/15/19	*		3316.1	--	--	--	--	7	--	--
10/16/19	*		3326.9	--	--	--	--	7	--	--
10/17/19	*		3337.7	--	--	--	--	7	--	--
10/18/19	*		3348.5	--	--	--	--	7	--	--
10/19/19	*		3359.3	--	--	--	--	7	--	--
10/20/19	*		3370.1	--	--	--	--	7	--	--
10/21/19	*		3380.8	--	--	--	--	7	--	--
10/22/19	*		3391.6	--	--	--	--	7	--	--
10/23/19	*		3402.4	--	--	--	--	7	--	--
10/24/19	*		3413.2	--	--	--	--	7	--	--
10/25/19	*		3424.0	--	--	--	--	7	--	--
10/26/19	*		3434.8	--	--	--	--	7	--	--
10/27/19	*		3445.6	--	--	--	--	7	--	--
10/28/19	*		3456.4	--	--	--	--	7	--	--
10/29/19	*		3467.2	--	--	--	--	7	--	--
10/30/19	*		3478.0	--	--	--	--	7	--	--
10/31/19	Technician		3488.8	12	240	110	10	9	10	97

Legend / Notes:

System operating under SCAQMD Various Locations Permit #G52288

Biosparge wells on line this month (grouped by location):

Central Area - (BSP-25, -26, -28), (BSP-29, -30), (BSP-21, -22, -23, -24, -27). Eastern Area- (BSP-10, -11, RW-11), (BSP-12, -13, RW-18), (BSP-14, RW-4, -5, -9, -10, -14); Southern Area - (BSP-19, -20, RW-21, -23, -26), (BSP-17, -18, RW-30, -31, -32, -34), (BSP-15, -16, RW-19, -20, -25, -28), (RW-22, -24, -27, -29, -33, -43), (RW-35, -38, -39, -40, -45), (RW-36, -37, -41, -42, -46), (RW-47, -48, -49, -50).

psig = pounds per square inch

in. WC = inches of water column

°F = Degrees Fahrenheit

NA = Not available

HE = Heat Exchanger

-- = Not applicable or not measured

* = Operational values interpolated from chart recorder data or previous monitoring event.

TABLE 11B
Biosparge System Operations Summary - November
 DFSP Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	Cumulative Blower Runtime (hours)	Blower Discharge Pressure (psig)	Blower Discharge Temperature (°F)	HE Outlet Temperature (°F)	Main Header Pressure (psig)	Sparge Total Flow (in WC)	Sparge Total Pressure (psig)	Sparge Total Temperature (°F)
11/01/19	*		3836.3	--	--	--	--	9	--	--
11/03/19	*		3838.5	--	--	--	--	9	--	--
11/04/19	*		3839.6	--	--	--	--	9	--	--
11/05/19	*		3840.8	--	--	--	--	9	--	--
11/06/19	*		3841.9	--	--	--	--	9	--	--
11/07/19	*		3843.0	--	--	--	--	9	--	--
11/08/19	*		3844.1	--	--	--	--	9	--	--
11/09/19	*		3845.3	--	--	--	--	9	--	--
11/10/19	*		3846.4	--	--	--	--	9	--	--
11/11/19	*		3847.5	--	--	--	--	9	--	--
11/12/19	*		3848.6	--	--	--	--	9	--	--
11/13/19	*		3849.8	--	--	--	--	9	--	--
11/14/19	*		3850.9	--	--	--	--	9	--	--
11/15/19	Technician		3852.0	11	250	104	13	7	13	99
11/16/19	*		3874.3	--	--	--	--	7	--	--
11/17/19	*		3896.6	--	--	--	--	7	--	--
11/18/19	Technician		3918.9	12	255	110	12	7	12	103
11/19/19	*		3943.7	--	--	--	--	7	--	--
11/20/19	*		3968.6	--	--	--	--	7	--	--
11/21/19	*		3993.4	--	--	--	--	7	--	--
11/22/19	*		4018.2	--	--	--	--	7	--	--
11/23/19	*		4043.0	--	--	--	--	7	--	--
11/24/19	*		4067.9	--	--	--	--	7	--	--
11/25/19	Technician		4092.7	10	215	94	10	7.9	8	90
11/26/19	*		4104.0	--	--	--	--	7.9	--	--
11/27/19	*		4115.3	--	--	--	--	7.9	--	--
11/28/19	*		4126.6	--	--	--	--	7.9	--	--
11/29/19	*		4137.9	--	--	--	--	7.9	--	--
11/30/19	*		4149.2	--	--	--	--	7.9	--	--

Legend / Notes:

System operating under SCAQMD Various Locations Permit #G52288

Biosparge wells on line this month (grouped by location):

Central Area - (BSP-25, -26, -28), (BSP-29, -30), (BSP-21, -22, -23, -24, -27). Eastern Area- (BSP-10, -11, RW-11), (BSP-12, -13, RW-18), (BSP-14, RW-4, -5, -9, -10, -14); Southern Area - (BSP-19, -20, RW-21, -23, -26), (BSP-17, -18, RW-30, -31, -32, -34), (BSP-15, -16, RW-19, -20, -25, -28), (RW-22, -24, -27, -29, -33, -43), (RW-35, -38, -39, -40, -45), (RW-36, -37, -41, -42, -46), (RW-47, -48, -49, -50).

psig = pounds per square inch

in. WC = inches of water column

°F = Degrees Fahrenheit

NA = Not available

HE = Heat Exchanger

-- = Not applicable or not measured

* = Operational values interpolated from chart recorder data or previous monitoring event.

TABLE 11C
Biosparge System Operations Summary - December
 DFSP Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	Cumulative Blower Runtime (hours)	Blower Discharge Pressure (psig)	Blower Discharge Temperature (°F)	HE Outlet Temperature (°F)	Main Header Pressure (psig)	Sparge Total Flow (in WC)	Sparge Total Pressure (psig)	Sparge Total Temperature (°F)
12/01/19	*		4171.6	--	--	--	--	8	--	--
12/02/19	Technician		4171.8	8	220	104	8	9	6	95
12/03/19	*		4195.7	--	--	--	--	9	--	--
12/04/19	*		4219.7	--	--	--	--	9	--	--
12/05/19	*		4243.6	--	--	--	--	9	--	--
12/06/19	*		4267.6	--	--	--	--	9	--	--
12/07/19	*		4291.5	--	--	--	--	9	--	--
12/08/19	*		4315.5	--	--	--	--	9	--	--
12/09/19	*		4339.4	--	--	--	--	9	--	--
12/10/19	*		4363.4	--	--	--	--	9	--	--
12/11/19	Technician		4387.3	9	230	100	10	8	9	94
12/12/19	*		4402.8	--	--	--	--	8	--	--
12/13/19	*		4418.3	--	--	--	--	8	--	--
12/14/19	*		4433.7	--	--	--	--	8	--	--
12/15/19	*		4449.2	--	--	--	--	8	--	--
12/16/19	Technician		4464.7	10	240	102	10	8	9	95
12/17/19	*		4488.4	--	--	--	--	8	--	--
12/18/19	*		4512.1	--	--	--	--	8	--	--
12/19/19	*		4535.8	--	--	--	--	8	--	--
12/20/19	*		4559.6	--	--	--	--	8	--	--
12/21/19	*		4583.3	--	--	--	--	8	--	--
12/22/19	*		4607.0	--	--	--	--	8	--	--
12/23/19	Technician		4630.7	8	210	86	12	7.5	11	75
12/24/19	*		4655.2	--	--	--	--	7.5	--	--
12/25/19	*		4679.7	--	--	--	--	7.5	--	--
12/26/19	*		4704.2	--	--	--	--	7.5	--	--
12/27/19	*		4728.7	--	--	--	--	7.5	--	--
12/28/19	*		4753.2	--	--	--	--	7.5	--	--
12/29/19	*		4777.7	--	--	--	--	7.5	--	--
12/30/19	Technician		4802.2	9	220	93	10	8	9	90
12/31/19	*		4826.2	--	--	--	--	8	--	--

Legend / Notes:

System operating under SCAQMD Various Locations Permit #G52288

Biosparge wells on line this month (grouped by location):

Central Area - (BSP-25, -26, -28), (BSP-29, -30), (BSP-21, -22, -23, -24, -27). Eastern Area - (BSP-10, -11, RW-11), (BSP-12, -13, RW-18), (BSP-14, RW-4, -5, -9, -10, -14); Southern Area - (BSP-19, -20, RW-21, -23, -26), (BSP-17, -18, RW-30, -31, -32, -34), (BSP-15, -16, RW-19, -20, -25, -28), (RW-22, -24, -27, -29, -33, -43), (RW-35, -38, -39, -40, -45), (RW-36, -37, -41, -42, -46), (RW-47, -48, -49, -50).

psig = pounds per square inch

in. WC = inches of water column

°F = Degrees Fahrenheit

NA = Not available

HE = Heat Exchanger

-- = Not applicable or not measured

* = Operational values interpolated from chart recorder data or previous monitoring event.

APPENDIX A

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS



9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

December 05, 2019

Neil Irish

The Source Group, Inc. (SH)
1962 Freeman Ave.
Signal Hill, CA 90755

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333236 / 9K25011**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 11/25/19 16:11 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytix.

Sincerely,

A handwritten signature in black ink, appearing to be 'V. Vasile', written in a cursive style.

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333236
Date Received: 11/25/19
Date Reported: 12/05/19

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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GRO in Vapor as Hexane

VES Influent	9K25011-01	Vapor	5	11/25/19 11:15	11/25/19 16:11
VES Effluent	9K25011-02	Vapor	5	11/25/19 11:08	11/25/19 16:11

VOCs BTEX/MTBE Vapor GC/MS

VES Influent	9K25011-01	Vapor	5	11/25/19 11:15	11/25/19 16:11
VES Effluent	9K25011-02	Vapor	5	11/25/19 11:08	11/25/19 16:11

VOCs Gasoline Range Organics Vapor

VES Influent	9K25011-01	Vapor	5	11/25/19 11:15	11/25/19 16:11
VES Effluent	9K25011-02	Vapor	5	11/25/19 11:08	11/25/19 16:11

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5333236
Date Received: 11/25/19
Date Reported: 12/05/19
Sampled: 11/25/19
Prepared: 11/26/19
Analyzed: 11/26/19

VES Influent

9K25011-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.50	ug/L	0.50	<0.16	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<0.50	ug/L	0.50	<0.13	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	<1.0	ug/L	1.0	<0.23	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	103 %	70-140
Dibromofluoromethane	105 %	70-140
Toluene-d8	101 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5333236
Date Received: 11/25/19
Date Reported: 12/05/19
Sampled: 11/25/19
Prepared: 11/26/19
Analyzed: 11/26/19

VES Effluent

9K25011-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.25	ug/L	0.50	<0.078	ppmv	0.16
Ethylbenzene	<0.25	ug/L	0.50	<0.058	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<1.0	ug/L	2.0	<0.28	ppmv	0.55
Toluene	<0.25	ug/L	0.50	<0.066	ppmv	0.13
o-Xylene	<0.25	ug/L	0.50	<0.058	ppmv	0.12
m,p-Xylenes	<0.50	ug/L	1.0	<0.12	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	103 %	70-140
Dibromofluoromethane	103 %	70-140
Toluene-d8	100 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333236
Date Received: 11/25/19
Date Reported: 12/05/19
Sampled: 11/25/19
Prepared: 11/26/19
Analyzed: 11/26/19

VES Influent

9K25011-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	170	ug/L	20	42	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		118 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333236
Date Received: 11/25/19
Date Reported: 12/05/19
Sampled: 11/25/19
Prepared: 11/26/19
Analyzed: 11/26/19

VES Effluent

9K25011-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		104 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Method: GRO in Vapor as Hexane

AA Project No: A5333236
Date Received: 11/25/19
Date Reported: 12/05/19
Units: ppmv

Date Sampled:	11/25/19	11/25/19	
Date Prepared:	11/26/19	11/26/19	
Date Analyzed:	11/26/19	11/26/19	
AA ID No:	9K25011-01	9K25011-02	
Client ID No:	VES Influent	VES Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	38	<5.7	5.7
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333236
Date Received: 11/25/19
Date Reported: 12/05/19

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control

Batch B9K2604 - *** DEFAULT PREP ***

Blank (B9K2604-BLK1)

Prepared & Analyzed: 11/26/19

Benzene	<0.50	0.50	ug/L
Ethylbenzene	<0.50	0.50	ug/L
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L
Toluene	<0.50	0.50	ug/L
o-Xylene	<0.50	0.50	ug/L
m,p-Xylenes	<1.0	1.0	ug/L

Surrogate: 4-Bromofluorobenzene	50.9		ug/L	50		102	70-140
Surrogate: Dibromofluoromethane	49.9		ug/L	50		99.8	70-140
Surrogate: Toluene-d8	50.3		ug/L	50		101	70-140

LCS (B9K2604-BS1)

Prepared & Analyzed: 11/26/19

Benzene	19.7	0.50	ug/L	20		98.6	75-125
Ethylbenzene	22.8	0.50	ug/L	20		114	75-125
Methyl-tert-Butyl Ether (MTBE)	39.9	2.0	ug/L	40		99.8	75-125
Toluene	21.3	0.50	ug/L	20		107	75-125
o-Xylene	21.9	0.50	ug/L	20		110	75-125
m,p-Xylenes	44.9	1.0	ug/L	40		112	75-125

Surrogate: 4-Bromofluorobenzene	49.9		ug/L	50		99.8	70-140
Surrogate: Dibromofluoromethane	46.8		ug/L	50		93.5	70-140
Surrogate: Toluene-d8	50.3		ug/L	50		101	70-140

LCS Dup (B9K2604-BSD1)

Prepared: 11/26/19 Analyzed: 11/27/19

Benzene	19.3	0.50	ug/L	20		96.7	75-125	2.00	30
Ethylbenzene	22.1	0.50	ug/L	20		110	75-125	3.21	30
Methyl-tert-Butyl Ether (MTBE)	39.5	2.0	ug/L	40		98.8	75-125	1.06	30
Toluene	20.8	0.50	ug/L	20		104	75-125	2.33	30
o-Xylene	21.8	0.50	ug/L	20		109	75-125	0.229	30
m,p-Xylenes	44.9	1.0	ug/L	40		112	75-125	0.0668	30

Surrogate: 4-Bromofluorobenzene	50.3		ug/L	50		101	70-140
Surrogate: Dibromofluoromethane	48.2		ug/L	50		96.4	70-140
Surrogate: Toluene-d8	50.4		ug/L	50		101	70-140

Duplicate (B9K2604-DUP1) Source: 9K25011-02 Prepared & Analyzed: 11/26/19

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333236
Date Received: 11/25/19
Date Reported: 12/05/19

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B9K2604 - *** DEFAULT PREP ***</i>										
Duplicate (B9K2604-DUP1) Continued Source: 9K25011-02 Prepared & Analyzed: 11/26/19										
Benzene	<0.25	0.25	ug/L		<0.25				30	
Ethylbenzene	<0.25	0.25	ug/L		<0.25				30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L		<1.0				30	
Toluene	<0.25	0.25	ug/L		<0.25				30	
o-Xylene	<0.25	0.25	ug/L		<0.25				30	
m,p-Xylenes	<0.50	0.50	ug/L		<0.50				30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>52.0</i>		<i>ug/L</i>	<i>50</i>		<i>104</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>49.8</i>		<i>ug/L</i>	<i>50</i>		<i>99.6</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.7</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B9K2603 - *** DEFAULT PREP ***</i>										
Blank (B9K2603-BLK1) Prepared & Analyzed: 11/26/19										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>52.1</i>		<i>ug/L</i>	<i>50</i>		<i>104</i>	<i>70-130</i>			
LCS (B9K2603-BS1) Prepared & Analyzed: 11/26/19										
Gasoline Range Organics (GRO)	486	20	ug/L	500		97.1	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>56.3</i>		<i>ug/L</i>	<i>50</i>		<i>113</i>	<i>70-130</i>			
LCS Dup (B9K2603-BSD1) Prepared & Analyzed: 11/26/19										
Gasoline Range Organics (GRO)	502	20	ug/L	500		100	75-125	3.25	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>59.9</i>		<i>ug/L</i>	<i>50</i>		<i>120</i>	<i>70-130</i>			
Duplicate (B9K2603-DUP1) Source: 9K25011-01 Prepared & Analyzed: 11/26/19										
Gasoline Range Organics (GRO)	177	20	ug/L		175			1.13	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>59.9</i>		<i>ug/L</i>	<i>50</i>		<i>120</i>	<i>70-130</i>			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B9K2603 - *** DEFAULT PREP ***</i>										
Blank (B9K2603-BLK1) Prepared & Analyzed: 11/26/19										
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B9K2603-DUP1) Source: 9K25011-01 Prepared & Analyzed: 11/26/19										

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333236
Date Received: 11/25/19
Date Reported: 12/05/19

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B9K2603 - *** DEFAULT PREP ***</i>										
Duplicate (B9K2603-DUP1) Continued Source: 9K25011-01 Prepared & Analyzed: 11/26/19										
GRO as Hexane	38.6	5.7	ppmv		38.2			1.13	30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333236
Date Received: 11/25/19
Date Reported: 12/05/19

Special Notes

A handwritten signature in black ink, appearing to be 'AV' or similar initials.

Viorel Vasile
Operations Manager



9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

January 07, 2020

Neil Irish

The Source Group, Inc. (SH)
1962 Freeman Ave.
Signal Hill, CA 90755

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333286 / 9L30007**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 12/30/19 16:33 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytix.

Sincerely,

A handwritten signature in black ink, appearing to be 'V. Vasile', written in a cursive style.

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333286
Date Received: 12/30/19
Date Reported: 01/07/20

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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GRO in Vapor as Hexane

VES Influent	9L30007-01	Vapor	5	12/30/19 11:08	12/30/19 16:33
VES Effluent	9L30007-02	Vapor	5	12/30/19 11:05	12/30/19 16:33

VOCs BTEX/MTBE Vapor GC/MS

VES Influent	9L30007-01	Vapor	5	12/30/19 11:08	12/30/19 16:33
VES Effluent	9L30007-02	Vapor	5	12/30/19 11:05	12/30/19 16:33

VOCs Gasoline Range Organics Vapor

VES Influent	9L30007-01	Vapor	5	12/30/19 11:08	12/30/19 16:33
VES Effluent	9L30007-02	Vapor	5	12/30/19 11:05	12/30/19 16:33

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5333286
Date Received: 12/30/19
Date Reported: 01/07/20
Sampled: 12/30/19
Prepared: 01/02/20
Analyzed: 01/02/20

VES Influent
9L30007-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.50	ug/L	0.50	<0.16	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<0.50	ug/L	0.50	<0.13	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	<1.0	ug/L	1.0	<0.23	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	94.2 %	70-140
Dibromofluoromethane	98.7 %	70-140
Toluene-d8	96.0 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5333286
Date Received: 12/30/19
Date Reported: 01/07/20
Sampled: 12/30/19
Prepared: 01/02/20
Analyzed: 01/02/20

VES Effluent
9L30007-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.25	ug/L	0.50	<0.078	ppmv	0.16
Ethylbenzene	<0.25	ug/L	0.50	<0.058	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<1.0	ug/L	2.0	<0.28	ppmv	0.55
Toluene	<0.25	ug/L	0.50	<0.066	ppmv	0.13
o-Xylene	<0.25	ug/L	0.50	<0.058	ppmv	0.12
m,p-Xylenes	<0.50	ug/L	1.0	<0.12	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	94.7 %	70-140
Dibromofluoromethane	97.9 %	70-140
Toluene-d8	95.9 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333286
Date Received: 12/30/19
Date Reported: 01/07/20
Sampled: 12/30/19
Prepared: 12/31/19
Analyzed: 12/31/19

VES Influent
9L30007-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	29	ug/L	20	7.1	ppmv	4.9
Surrogates		%REC				%REC Limits
a,a,a-Trifluorotoluene		103 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333286
Date Received: 12/30/19
Date Reported: 01/07/20
Sampled: 12/30/19
Prepared: 12/31/19
Analyzed: 12/31/19

VES Effluent

9L30007-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	23	ug/L	20	5.6	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		108 %				70-130

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Method: GRO in Vapor as Hexane

AA Project No: A5333286
Date Received: 12/30/19
Date Reported: 01/07/20
Units: ppmv

Date Sampled:	12/30/19	12/30/19	
Date Prepared:	12/31/19	12/31/19	
Date Analyzed:	12/31/19	12/31/19	
AA ID No:	9L30007-01	9L30007-02	
Client ID No:	VES Influent	VES Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	6.3	<5.7	5.7
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333286
Date Received: 12/30/19
Date Reported: 01/07/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0A0203 - *** DEFAULT PREP ***</i>										
Blank (B0A0203-BLK1)					Prepared & Analyzed: 01/02/20					
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>46.7</i>		<i>ug/L</i>	<i>50</i>		<i>93.4</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>51.4</i>		<i>ug/L</i>	<i>50</i>		<i>103</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>51.5</i>		<i>ug/L</i>	<i>50</i>		<i>103</i>	<i>70-140</i>			
LCS (B0A0203-BS1)					Prepared & Analyzed: 01/02/20					
Benzene	15.5	0.50	ug/L	20		77.6	75-125			
Ethylbenzene	20.4	0.50	ug/L	20		102	75-125			
Methyl-tert-Butyl Ether (MTBE)	42.4	2.0	ug/L	40		106	75-125			
Toluene	18.1	0.50	ug/L	20		90.4	75-125			
o-Xylene	20.1	0.50	ug/L	20		100	75-125			
m,p-Xylenes	38.4	1.0	ug/L	40		96.1	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.0</i>		<i>ug/L</i>	<i>50</i>		<i>93.9</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>47.0</i>		<i>ug/L</i>	<i>50</i>		<i>94.0</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>47.4</i>		<i>ug/L</i>	<i>50</i>		<i>94.9</i>	<i>70-140</i>			
LCS Dup (B0A0203-BSD1)					Prepared: 01/02/20 Analyzed: 01/03/20					
Benzene	15.6	0.50	ug/L	20		78.1	75-125	0.642	30	
Ethylbenzene	19.8	0.50	ug/L	20		98.8	75-125	3.34	30	
Methyl-tert-Butyl Ether (MTBE)	36.3	2.0	ug/L	40		90.8	75-125	15.5	30	
Toluene	18.5	0.50	ug/L	20		92.6	75-125	2.41	30	
o-Xylene	19.8	0.50	ug/L	20		98.8	75-125	1.46	30	
m,p-Xylenes	38.5	1.0	ug/L	40		96.2	75-125	0.0780	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.6</i>		<i>ug/L</i>	<i>50</i>		<i>97.2</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>44.0</i>		<i>ug/L</i>	<i>50</i>		<i>88.1</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.0</i>		<i>ug/L</i>	<i>50</i>		<i>98.0</i>	<i>70-140</i>			
Duplicate (B0A0203-DUP1)					Source: 9L30007-02 Prepared & Analyzed: 01/02/20					

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333286
Date Received: 12/30/19
Date Reported: 01/07/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0A0203 - *** DEFAULT PREP ***</i>										
Duplicate (B0A0203-DUP1) Continued Source: 9L30007-02 Prepared & Analyzed: 01/02/20										
Benzene	<0.25	0.25	ug/L		<0.25				30	
Ethylbenzene	<0.25	0.25	ug/L		<0.25				30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L		<1.0				30	
Toluene	<0.25	0.25	ug/L		<0.25				30	
o-Xylene	<0.25	0.25	ug/L		<0.25				30	
m,p-Xylenes	<0.50	0.50	ug/L		<0.50				30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.0</i>		<i>ug/L</i>	<i>50</i>		<i>100</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>48.5</i>		<i>ug/L</i>	<i>50</i>		<i>97.0</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.2</i>		<i>ug/L</i>	<i>50</i>		<i>96.4</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B9L3113 - *** DEFAULT PREP ***</i>										
Blank (B9L3113-BLK1) Prepared & Analyzed: 12/31/19										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>47.5</i>		<i>ug/L</i>	<i>50</i>		<i>95.1</i>	<i>70-130</i>			
LCS (B9L3113-BS1) Prepared & Analyzed: 12/31/19										
Gasoline Range Organics (GRO)	446	20	ug/L	500		89.2	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>57.4</i>		<i>ug/L</i>	<i>50</i>		<i>115</i>	<i>70-130</i>			
LCS Dup (B9L3113-BSD1) Prepared & Analyzed: 12/31/19										
Gasoline Range Organics (GRO)	460	20	ug/L	500		91.9	75-125	3.00	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>48.9</i>		<i>ug/L</i>	<i>50</i>		<i>97.9</i>	<i>70-130</i>			
Duplicate (B9L3113-DUP1) Source: 9L30007-01 Prepared & Analyzed: 12/31/19										
Gasoline Range Organics (GRO)	25.5	20	ug/L		29.0			12.6	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>52.0</i>		<i>ug/L</i>	<i>50</i>		<i>104</i>	<i>70-130</i>			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B9L3113 - *** DEFAULT PREP ***</i>										
Blank (B9L3113-BLK1) Prepared & Analyzed: 12/31/19										
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B9L3113-DUP1) Source: 9L30007-01 Prepared: 12/31/19 Analyzed: 12/31/20										

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333286
Date Received: 12/30/19
Date Reported: 01/07/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B9L3113 - *** DEFAULT PREP ***</i>										
Duplicate (B9L3113-DUP1) Continued Source: 9L30007-01 Prepared: 12/31/19 Analyzed: 12/31/20										
GRO as Hexane	<5.7	5.7	ppmv		6.32				30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333286
Date Received: 12/30/19
Date Reported: 01/07/20

Special Notes

A handwritten signature in black ink, appearing to be 'VA' or similar, located below the 'Special Notes' section.

Viorel Vasile
Operations Manager



9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

December 11, 2019

Neil Irish

The Source Group, Inc. (SH)
1962 Freeman Ave.
Signal Hill, CA 90755

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333233 / 9K25013**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 11/25/19 16:11 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytix.

Sincerely,

A handwritten signature in black ink, appearing to be 'V. Vasile', written in a cursive style.

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333233
Date Received: 11/25/19
Date Reported: 12/11/19

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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GRO in Vapor as Hexane

HW-1	9K25013-01	Vapor	5	11/25/19 11:43	11/25/19 16:11
HW-8+9	9K25013-02	Vapor	5	11/25/19 11:45	11/25/19 16:11
HW-5	9K25013-03	Vapor	5	11/25/19 11:37	11/25/19 16:11
HW-7	9K25013-04	Vapor	5	11/25/19 11:40	11/25/19 16:11

VOCs BTEX/MTBE Vapor GC/MS

HW-1	9K25013-01	Vapor	5	11/25/19 11:43	11/25/19 16:11
HW-8+9	9K25013-02	Vapor	5	11/25/19 11:45	11/25/19 16:11
HW-5	9K25013-03	Vapor	5	11/25/19 11:37	11/25/19 16:11
HW-7	9K25013-04	Vapor	5	11/25/19 11:40	11/25/19 16:11

VOCs Gasoline Range Organics Vapor

HW-1	9K25013-01	Vapor	5	11/25/19 11:43	11/25/19 16:11
HW-8+9	9K25013-02	Vapor	5	11/25/19 11:45	11/25/19 16:11
HW-5	9K25013-03	Vapor	5	11/25/19 11:37	11/25/19 16:11
HW-7	9K25013-04	Vapor	5	11/25/19 11:40	11/25/19 16:11

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5333233
Date Received: 11/25/19
Date Reported: 12/11/19
Sampled: 11/25/19
Prepared: 11/26/19
Analyzed: 11/26/19

HW-1

9K25013-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.50	ug/L	0.50	<0.16	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<0.50	ug/L	0.50	<0.13	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	<1.0	ug/L	1.0	<0.23	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	104 %	70-140
Dibromofluoromethane	108 %	70-140
Toluene-d8	99.8 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5333233
Date Received: 11/25/19
Date Reported: 12/11/19
Sampled: 11/25/19
Prepared: 11/26/19
Analyzed: 11/26/19

HW-8+9

9K25013-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.50	ug/L	0.50	<0.16	ppmv	0.16
Ethylbenzene	1.1	ug/L	0.50	0.25	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<0.50	ug/L	0.50	<0.13	ppmv	0.13
o-Xylene	1.5	ug/L	0.50	0.35	ppmv	0.12
m,p-Xylenes	4.1	ug/L	1.0	0.94	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	95.2 %	70-140
Dibromofluoromethane	99.5 %	70-140
Toluene-d8	98.8 %	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5333233
Date Received: 11/25/19
Date Reported: 12/11/19
Sampled: 11/25/19
Prepared: 11/26/19
Analyzed: 11/26/19

HW-5

9K25013-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.50	ug/L	0.50	<0.16	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<0.50	ug/L	0.50	<0.13	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	<1.0	ug/L	1.0	<0.23	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	106 %	70-140
Dibromofluoromethane	100 %	70-140
Toluene-d8	102 %	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5333233
Date Received: 11/25/19
Date Reported: 12/11/19
Sampled: 11/25/19
Prepared: 11/26/19
Analyzed: 11/26/19

HW-7

9K25013-04 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	1.7	ug/L	0.50	0.53	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	1.6	ug/L	0.50	0.42	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	<1.0	ug/L	1.0	<0.23	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	98.0 %	70-140
Dibromofluoromethane	99.0 %	70-140
Toluene-d8	98.3 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 10
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333233
Date Received: 11/25/19
Date Reported: 12/11/19
Sampled: 11/25/19
Prepared: 11/26/19
Analyzed: 11/26/19

HW-1

9K25013-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	820	ug/L	20	200	ppmv	4.9
Surrogates		%REC				%REC Limits
a,a,a-Trifluorotoluene		102 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333233
Date Received: 11/25/19
Date Reported: 12/11/19
Sampled: 11/25/19
Prepared: 11/26/19
Analyzed: 11/26/19

HW-8+9

9K25013-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	1600	ug/L	20	390	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		120 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 10
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333233
Date Received: 11/25/19
Date Reported: 12/11/19
Sampled: 11/25/19
Prepared: 11/26/19
Analyzed: 11/26/19

HW-5

9K25013-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	710	ug/L	20	170	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		104 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 10
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333233
Date Received: 11/25/19
Date Reported: 12/11/19
Sampled: 11/25/19
Prepared: 11/26/19
Analyzed: 11/26/19

HW-7

9K25013-04 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	1100	ug/L	20	270	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		105 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Method: GRO in Vapor as Hexane

AA Project No: A5333233
Date Received: 11/25/19
Date Reported: 12/11/19
Units: ppmv

Date Sampled:	11/25/19	11/25/19	11/25/19	11/25/19	
Date Prepared:	11/26/19	11/26/19	11/26/19	11/26/19	
Date Analyzed:	11/26/19	11/26/19	11/26/19	11/26/19	
AA ID No:	9K25013-01	9K25013-02	9K25013-03	9K25013-04	
Client ID No:	HW-1	HW-8+9	HW-5	HW-7	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	10	1	10	10	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	180	360	160	240	5.7
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333233
Date Received: 11/25/19
Date Reported: 12/11/19

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B9K2604 - *** DEFAULT PREP ***</i>										
Blank (B9K2604-BLK1)					Prepared & Analyzed: 11/26/19					
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	50.9		ug/L	50		102	70-140			
<i>Surrogate: Dibromofluoromethane</i>	49.9		ug/L	50		99.8	70-140			
<i>Surrogate: Toluene-d8</i>	50.3		ug/L	50		101	70-140			
LCS (B9K2604-BS1)					Prepared & Analyzed: 11/26/19					
Benzene	19.7	0.50	ug/L	20		98.6	75-125			
Ethylbenzene	22.8	0.50	ug/L	20		114	75-125			
Methyl-tert-Butyl Ether (MTBE)	39.9	2.0	ug/L	40		99.8	75-125			
Toluene	21.3	0.50	ug/L	20		107	75-125			
o-Xylene	21.9	0.50	ug/L	20		110	75-125			
m,p-Xylenes	44.9	1.0	ug/L	40		112	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	49.9		ug/L	50		99.8	70-140			
<i>Surrogate: Dibromofluoromethane</i>	46.8		ug/L	50		93.5	70-140			
<i>Surrogate: Toluene-d8</i>	50.3		ug/L	50		101	70-140			
LCS Dup (B9K2604-BSD1)					Prepared: 11/26/19 Analyzed: 11/27/19					
Benzene	19.3	0.50	ug/L	20		96.7	75-125	2.00	30	
Ethylbenzene	22.1	0.50	ug/L	20		110	75-125	3.21	30	
Methyl-tert-Butyl Ether (MTBE)	39.5	2.0	ug/L	40		98.8	75-125	1.06	30	
Toluene	20.8	0.50	ug/L	20		104	75-125	2.33	30	
o-Xylene	21.8	0.50	ug/L	20		109	75-125	0.229	30	
m,p-Xylenes	44.9	1.0	ug/L	40		112	75-125	0.0668	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	50.3		ug/L	50		101	70-140			
<i>Surrogate: Dibromofluoromethane</i>	48.2		ug/L	50		96.4	70-140			
<i>Surrogate: Toluene-d8</i>	50.4		ug/L	50		101	70-140			
Duplicate (B9K2604-DUP1)					Source: 9K25011-02 Prepared & Analyzed: 11/26/19					

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333233
Date Received: 11/25/19
Date Reported: 12/11/19

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B9K2604 - *** DEFAULT PREP ***</i>										
Duplicate (B9K2604-DUP1) Continued Source: 9K25011-02 Prepared & Analyzed: 11/26/19										
Benzene	<0.25	0.25	ug/L						30	
Ethylbenzene	<0.25	0.25	ug/L						30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	<0.25	0.25	ug/L						30	
o-Xylene	<0.25	0.25	ug/L						30	
m,p-Xylenes	<0.50	0.50	ug/L						30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>52.0</i>		<i>ug/L</i>	<i>50</i>		<i>104</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>49.8</i>		<i>ug/L</i>	<i>50</i>		<i>99.6</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.7</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B9K2603 - *** DEFAULT PREP ***</i>										
Blank (B9K2603-BLK1) Prepared & Analyzed: 11/26/19										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>52.1</i>		<i>ug/L</i>	<i>50</i>		<i>104</i>	<i>70-130</i>			
LCS (B9K2603-BS1) Prepared & Analyzed: 11/26/19										
Gasoline Range Organics (GRO)	486	20	ug/L	500		97.1	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>56.3</i>		<i>ug/L</i>	<i>50</i>		<i>113</i>	<i>70-130</i>			
LCS Dup (B9K2603-BSD1) Prepared & Analyzed: 11/26/19										
Gasoline Range Organics (GRO)	502	20	ug/L	500		100	75-125	3.25	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>59.9</i>		<i>ug/L</i>	<i>50</i>		<i>120</i>	<i>70-130</i>			
Duplicate (B9K2603-DUP1) Source: 9K25011-01 Prepared & Analyzed: 11/26/19										
Gasoline Range Organics (GRO)	177	20	ug/L		175			1.13	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>59.9</i>		<i>ug/L</i>	<i>50</i>		<i>120</i>	<i>70-130</i>			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B9K2603 - *** DEFAULT PREP ***</i>										
Blank (B9K2603-BLK1) Prepared & Analyzed: 11/26/19										
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B9K2603-DUP1) Source: 9K25011-01 Prepared & Analyzed: 11/26/19										

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333233
Date Received: 11/25/19
Date Reported: 12/11/19

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B9K2603 - *** DEFAULT PREP ***</i>										
Duplicate (B9K2603-DUP1) Continued Source: 9K25011-01 Prepared & Analyzed: 11/26/19										
GRO as Hexane	38.6	5.7	ppmv		38.2			1.13	30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333233
Date Received: 11/25/19
Date Reported: 12/11/19

Special Notes

A handwritten signature in black ink, appearing to read 'Viorel Vasile'.

Viorel Vasile
Operations Manager



9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

November 05, 2019

Neil Irish

The Source Group, Inc. (SH)
1962 Freeman Ave.
Signal Hill, CA 90755

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333189 / 9J31004**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 10/31/19 17:30 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytix.

Sincerely,

A handwritten signature in black ink, appearing to read 'V. Vasile', is written over a light blue horizontal line.

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333189
Date Received: 10/31/19
Date Reported: 11/05/19

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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GRO in Vapor as Hexane

Thermox Influent	9J31004-01	Vapor	5	10/31/19 09:51	10/31/19 17:30
Thermox Effluent	9J31004-02	Vapor	5	10/31/19 09:45	10/31/19 17:30

VOCs BTEX/MTBE Vapor GC/MS

Thermox Influent	9J31004-01	Vapor	5	10/31/19 09:51	10/31/19 17:30
Thermox Effluent	9J31004-02	Vapor	5	10/31/19 09:45	10/31/19 17:30

VOCs Gasoline Range Organics Vapor

Thermox Influent	9J31004-01	Vapor	5	10/31/19 09:51	10/31/19 17:30
Thermox Effluent	9J31004-02	Vapor	5	10/31/19 09:45	10/31/19 17:30

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5333189
Date Received: 10/31/19
Date Reported: 11/05/19
Sampled: 10/31/19
Prepared: 11/01/19
Analyzed: 11/01/19

Thermox Influent
9J31004-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	18	ug/L	0.50	5.6	ppmv	0.16
Ethylbenzene	4.0	ug/L	0.50	0.92	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	2.3	ug/L	0.50	0.61	ppmv	0.13
o-Xylene	2.0	ug/L	0.50	0.46	ppmv	0.12
m,p-Xylenes	9.7	ug/L	1.0	2.2	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	88.5 %	70-140
Dibromofluoromethane	92.2 %	70-140
Toluene-d8	88.5 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5333189
Date Received: 10/31/19
Date Reported: 11/05/19
Sampled: 10/31/19
Prepared: 11/01/19
Analyzed: 11/01/19

Thermax Effluent
9J31004-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.25	ug/L	0.50	<0.078	ppmv	0.16
Ethylbenzene	<0.25	ug/L	0.50	<0.058	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<1.0	ug/L	2.0	<0.28	ppmv	0.55
Toluene	<0.25	ug/L	0.50	<0.066	ppmv	0.13
o-Xylene	<0.25	ug/L	0.50	<0.058	ppmv	0.12
m,p-Xylenes	<0.50	ug/L	1.0	<0.12	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	95.9 %	70-140
Dibromofluoromethane	95.1 %	70-140
Toluene-d8	92.7 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 10
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333189
Date Received: 10/31/19
Date Reported: 11/05/19
Sampled: 10/31/19
Prepared: 11/01/19
Analyzed: 11/01/19

Thermox Influent
9J31004-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	14000	ug/L	20	3400	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		120 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333189
Date Received: 10/31/19
Date Reported: 11/05/19
Sampled: 10/31/19
Prepared: 11/01/19
Analyzed: 11/01/19

Thermax Effluent
9J31004-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	23	ug/L	20	5.6	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		103 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Method: GRO in Vapor as Hexane

AA Project No: A5333189
Date Received: 10/31/19
Date Reported: 11/05/19
Units: ppmv

Date Sampled:	10/31/19	10/31/19	
Date Prepared:	11/01/19	11/01/19	
Date Analyzed:	11/01/19	11/01/19	
AA ID No:	9J31004-01	9J31004-02	
Client ID No:	Thermox Influent	Thermox Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	10	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	3100	<5.7	5.7
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333189
Date Received: 10/31/19
Date Reported: 11/05/19

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B9K0102 - *** DEFAULT PREP ***</i>										
Blank (B9K0102-BLK1)				Prepared & Analyzed: 11/01/19						
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	46.9		ug/L	50		93.9	70-140			
<i>Surrogate: Dibromofluoromethane</i>	47.9		ug/L	50		95.7	70-140			
<i>Surrogate: Toluene-d8</i>	46.3		ug/L	50		92.6	70-140			
LCS (B9K0102-BS1)				Prepared & Analyzed: 11/01/19						
Benzene	20.7	0.50	ug/L	20		104	75-125			
Ethylbenzene	22.2	0.50	ug/L	20		111	75-125			
Methyl-tert-Butyl Ether (MTBE)	39.6	2.0	ug/L	40		99.1	75-125			
Toluene	21.2	0.50	ug/L	20		106	75-125			
o-Xylene	21.7	0.50	ug/L	20		109	75-125			
m,p-Xylenes	44.4	1.0	ug/L	40		111	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	45.3		ug/L	50		90.6	70-140			
<i>Surrogate: Dibromofluoromethane</i>	46.1		ug/L	50		92.1	70-140			
<i>Surrogate: Toluene-d8</i>	46.0		ug/L	50		92.0	70-140			
LCS Dup (B9K0102-BSD1)				Prepared & Analyzed: 11/01/19						
Benzene	19.4	0.50	ug/L	20		97.0	75-125	6.68	30	
Ethylbenzene	22.0	0.50	ug/L	20		110	75-125	0.950	30	
Methyl-tert-Butyl Ether (MTBE)	38.0	2.0	ug/L	40		95.0	75-125	4.20	30	
Toluene	21.1	0.50	ug/L	20		105	75-125	0.426	30	
o-Xylene	21.6	0.50	ug/L	20		108	75-125	0.461	30	
m,p-Xylenes	44.2	1.0	ug/L	40		110	75-125	0.542	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	44.4		ug/L	50		88.8	70-140			
<i>Surrogate: Dibromofluoromethane</i>	42.1		ug/L	50		84.2	70-140			
<i>Surrogate: Toluene-d8</i>	45.6		ug/L	50		91.2	70-140			
Duplicate (B9K0102-DUP1)				Source: 9J31004-02 Prepared & Analyzed: 11/01/19						

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333189
Date Received: 10/31/19
Date Reported: 11/05/19

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B9K0102 - *** DEFAULT PREP ***</i>										
Duplicate (B9K0102-DUP1) Continued Source: 9J31004-02 Prepared & Analyzed: 11/01/19										
Benzene	<0.25	0.25	ug/L		<0.25				30	
Ethylbenzene	<0.25	0.25	ug/L		<0.25				30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L		<1.0				30	
Toluene	<0.25	0.25	ug/L		<0.25				30	
o-Xylene	<0.25	0.25	ug/L		<0.25				30	
m,p-Xylenes	<0.50	0.50	ug/L		<0.50				30	
<i>Surrogate: 4-Bromofluorobenzene</i>	48.1		ug/L	50		96.3	70-140			
<i>Surrogate: Dibromofluoromethane</i>	48.0		ug/L	50		96.0	70-140			
<i>Surrogate: Toluene-d8</i>	46.6		ug/L	50		93.3	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B9K0103 - *** DEFAULT PREP ***</i>										
Blank (B9K0103-BLK1) Prepared & Analyzed: 11/01/19										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	54.3		ug/L	50		109	70-130			
LCS (B9K0103-BS1) Prepared & Analyzed: 11/01/19										
Gasoline Range Organics (GRO)	483	20	ug/L	500		96.5	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	59.6		ug/L	50		119	70-130			
LCS Dup (B9K0103-BSD1) Prepared & Analyzed: 11/01/19										
Gasoline Range Organics (GRO)	477	20	ug/L	500		95.3	75-125	1.23	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	60.1		ug/L	50		120	70-130			
Duplicate (B9K0103-DUP1) Source: 9J31004-01 Prepared & Analyzed: 11/01/19										
Gasoline Range Organics (GRO)	13400	200	ug/L		13900			3.55	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	58.4		ug/L	50		117	70-130			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B9K0103 - *** DEFAULT PREP ***</i>										
Blank (B9K0103-BLK1) Prepared & Analyzed: 11/01/19										
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B9K0103-DUP1) Source: 9J31004-01 Prepared & Analyzed: 11/01/19										

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333189
Date Received: 10/31/19
Date Reported: 11/05/19

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B9K0103 - *** DEFAULT PREP ***</i>										
Duplicate (B9K0103-DUP1) Continued Source: 9J31004-01 Prepared & Analyzed: 11/01/19										
GRO as Hexane	3020	57	ppmv		3110			2.87	30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333189
Date Received: 10/31/19
Date Reported: 11/05/19

Special Notes

A handwritten signature in black ink, appearing to be 'AV' or similar initials.

Viorel Vasile
Operations Manager



9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

December 04, 2019

Neil Irish

The Source Group, Inc. (SH)
1962 Freeman Ave.
Signal Hill, CA 90755

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333230 / 9K20022**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 11/20/19 17:28 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytix.

Sincerely,

A handwritten signature in black ink, appearing to read 'V. Vasile'.

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333230
Date Received: 11/20/19
Date Reported: 12/04/19

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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GRO in Vapor as Hexane

Thermox Influent	9K20022-01	Vapor	5	11/20/19 08:25	11/20/19 17:28
Thermox Effluent	9K20022-02	Vapor	5	11/20/19 08:13	11/20/19 17:28

VOCs BTEX/MTBE Vapor GC/MS

Thermox Influent	9K20022-01	Vapor	5	11/20/19 08:25	11/20/19 17:28
Thermox Effluent	9K20022-02	Vapor	5	11/20/19 08:13	11/20/19 17:28

VOCs Gasoline Range Organics Vapor

Thermox Influent	9K20022-01	Vapor	5	11/20/19 08:25	11/20/19 17:28
Thermox Effluent	9K20022-02	Vapor	5	11/20/19 08:13	11/20/19 17:28

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS****Client:** The Source Group, Inc. (SH)**Project No:** 04-NDLA-013**Project Name:** DFSP Norwalk VES AQMD**Matrix:** Vapor**Dilution:** 1**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M**AA Project No:** A5333230**Date Received:** 11/20/19**Date Reported:** 12/04/19**Sampled:** 11/20/19**Prepared:** 11/21/19**Analyzed:** 11/21/19**Thermox Influent
9K20022-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	6.5	ug/L	0.50	2.0	ppmv	0.16
Ethylbenzene	3.6	ug/L	0.50	0.83	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	2.0	ug/L	0.50	0.53	ppmv	0.13
o-Xylene	1.7	ug/L	0.50	0.39	ppmv	0.12
m,p-Xylenes	5.8	ug/L	1.0	1.3	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	97.2 %	70-140
Dibromofluoromethane	82.8 %	70-140
Toluene-d8	83.5 %	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5333230
Date Received: 11/20/19
Date Reported: 12/04/19
Sampled: 11/20/19
Prepared: 11/21/19
Analyzed: 11/21/19

Thermox Effluent
9K20022-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.25	ug/L	0.50	<0.078	ppmv	0.16
Ethylbenzene	<0.25	ug/L	0.50	<0.058	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<1.0	ug/L	2.0	<0.28	ppmv	0.55
Toluene	<0.25	ug/L	0.50	<0.066	ppmv	0.13
o-Xylene	<0.25	ug/L	0.50	<0.058	ppmv	0.12
m,p-Xylenes	<0.50	ug/L	1.0	<0.12	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	95.1 %	70-140
Dibromofluoromethane	84.5 %	70-140
Toluene-d8	89.6 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 10
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333230
Date Received: 11/20/19
Date Reported: 12/04/19
Sampled: 11/20/19
Prepared: 11/21/19
Analyzed: 11/21/19

Thermox Influent
9K20022-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	13000	ug/L	20	3200	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		107 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333230
Date Received: 11/20/19
Date Reported: 12/04/19
Sampled: 11/20/19
Prepared: 11/21/19
Analyzed: 11/21/19

Thermax Effluent
9K20022-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	20	ug/L	20	4.9	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		90.0 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Method: GRO in Vapor as Hexane

AA Project No: A5333230
Date Received: 11/20/19
Date Reported: 12/04/19
Units: ppmv

Date Sampled:	11/20/19	11/20/19	
Date Prepared:	11/21/19	11/21/19	
Date Analyzed:	11/21/19	11/21/19	
AA ID No:	9K20022-01	9K20022-02	
Client ID No:	Thermox Influent	Thermox Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	10	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	2800	<5.7	5.7
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333230
Date Received: 11/20/19
Date Reported: 12/04/19

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B9K2106 - *** DEFAULT PREP ***</i>										
Blank (B9K2106-BLK1)					Prepared & Analyzed: 11/21/19					
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	49.1		ug/L	50		98.1	70-140			
<i>Surrogate: Dibromofluoromethane</i>	40.7		ug/L	50		81.3	70-140			
<i>Surrogate: Toluene-d8</i>	45.5		ug/L	50		91.0	70-140			
LCS (B9K2106-BS1)					Prepared & Analyzed: 11/21/19					
Benzene	17.0	0.50	ug/L	20		85.0	75-125			
Ethylbenzene	22.2	0.50	ug/L	20		111	75-125			
Methyl-tert-Butyl Ether (MTBE)	28.8	2.0	ug/L	40		72.1	75-125			QL-07
Toluene	20.7	0.50	ug/L	20		103	75-125			
o-Xylene	22.8	0.50	ug/L	20		114	75-125			
m,p-Xylenes	43.6	1.0	ug/L	40		109	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	46.6		ug/L	50		93.2	70-140			
<i>Surrogate: Dibromofluoromethane</i>	41.0		ug/L	50		82.0	70-140			
<i>Surrogate: Toluene-d8</i>	46.0		ug/L	50		92.0	70-140			
LCS Dup (B9K2106-BSD1)					Prepared & Analyzed: 11/21/19					
Benzene	16.7	0.50	ug/L	20		83.5	75-125	1.78	30	
Ethylbenzene	22.9	0.50	ug/L	20		114	75-125	3.33	30	
Methyl-tert-Butyl Ether (MTBE)	24.2	2.0	ug/L	40		60.5	75-125	17.5	30	QL-07
Toluene	21.7	0.50	ug/L	20		108	75-125	4.68	30	
o-Xylene	23.4	0.50	ug/L	20		117	75-125	2.69	30	
m,p-Xylenes	45.4	1.0	ug/L	40		114	75-125	3.97	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	48.0		ug/L	50		95.9	70-140			
<i>Surrogate: Dibromofluoromethane</i>	37.4		ug/L	50		74.7	70-140			
<i>Surrogate: Toluene-d8</i>	46.9		ug/L	50		93.7	70-140			
Duplicate (B9K2106-DUP1)					Source: 9K20022-02 Prepared & Analyzed: 11/21/19					

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333230
Date Received: 11/20/19
Date Reported: 12/04/19

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B9K2106 - *** DEFAULT PREP ***</i>										
Duplicate (B9K2106-DUP1) Continued Source: 9K20022-02 Prepared & Analyzed: 11/21/19										
Benzene	<0.25	0.25	ug/L		<0.25				30	
Ethylbenzene	<0.25	0.25	ug/L		<0.25				30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L		<1.0				30	
Toluene	<0.25	0.25	ug/L		<0.25				30	
o-Xylene	<0.25	0.25	ug/L		<0.25				30	
m,p-Xylenes	<0.50	0.50	ug/L		<0.50				30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.7</i>		<i>ug/L</i>	<i>50</i>		<i>95.4</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>41.1</i>		<i>ug/L</i>	<i>50</i>		<i>82.2</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>44.1</i>		<i>ug/L</i>	<i>50</i>		<i>88.3</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B9K2109 - *** DEFAULT PREP ***</i>										
Blank (B9K2109-BLK1) Prepared & Analyzed: 11/21/19										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>41.6</i>		<i>ug/L</i>	<i>50</i>		<i>83.2</i>	<i>70-130</i>			
LCS (B9K2109-BS1) Prepared & Analyzed: 11/21/19										
Gasoline Range Organics (GRO)	477	20	ug/L	500		95.3	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>52.8</i>		<i>ug/L</i>	<i>50</i>		<i>106</i>	<i>70-130</i>			
LCS Dup (B9K2109-BSD1) Prepared & Analyzed: 11/21/19										
Gasoline Range Organics (GRO)	410	20	ug/L	500		82.1	75-125	14.9	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>46.7</i>		<i>ug/L</i>	<i>50</i>		<i>93.5</i>	<i>70-130</i>			
Duplicate (B9K2109-DUP1) Source: 9K20023-02 Prepared & Analyzed: 11/21/19										
Gasoline Range Organics (GRO)	2450	20	ug/L		2540			3.71	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>45.0</i>		<i>ug/L</i>	<i>50</i>		<i>90.0</i>	<i>70-130</i>			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B9K2109 - *** DEFAULT PREP ***</i>										
Blank (B9K2109-BLK1) Prepared & Analyzed: 11/21/19										
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B9K2109-DUP1) Source: 9K20023-02 Prepared & Analyzed: 11/21/19										

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333230
Date Received: 11/20/19
Date Reported: 12/04/19

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B9K2109 - *** DEFAULT PREP ***</i>										
Duplicate (B9K2109-DUP1) Continued Source: 9K20023-02 Prepared & Analyzed: 11/21/19										
GRO as Hexane	534	5.7	ppmv		554			3.82	30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333230
Date Received: 11/20/19
Date Reported: 12/04/19

Special Notes

[1] = **QL-07** : The recovery for this analyte in the LCS and LCSD is marginally below the lower control limit, therefore the reported concentration for this analyte may be biased low.

A handwritten signature in black ink, appearing to read 'V. Vasile'.

Viorel Vasile
Operations Manager



9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

December 24, 2019

Neil Irish

The Source Group, Inc. (SH)
1962 Freeman Ave.
Signal Hill, CA 90755

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333264 / 9L16010**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 12/16/19 19:03 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytix.

Sincerely,

A handwritten signature in black ink, appearing to read 'V. Vasile', is written over a light blue horizontal line.

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333264
Date Received: 12/16/19
Date Reported: 12/24/19

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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GRO in Vapor as Hexane

Thermox Influent	9L16010-01	Vapor	5	12/16/19 08:42	12/16/19 19:03
Thermox Effluent	9L16010-02	Vapor	5	12/16/19 08:38	12/16/19 19:03

VOCs BTEX/MTBE Vapor GC/MS

Thermox Influent	9L16010-01	Vapor	5	12/16/19 08:42	12/16/19 19:03
Thermox Effluent	9L16010-02	Vapor	5	12/16/19 08:38	12/16/19 19:03

VOCs Gasoline Range Organics Vapor

Thermox Influent	9L16010-01	Vapor	5	12/16/19 08:42	12/16/19 19:03
Thermox Effluent	9L16010-02	Vapor	5	12/16/19 08:38	12/16/19 19:03

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS****Client:** The Source Group, Inc. (SH)**Project No:** 04-NDLA-013**Project Name:** DFSP Norwalk VES AQMD**Matrix:** Vapor**Dilution:** 2**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M**AA Project No:** A5333264**Date Received:** 12/16/19**Date Reported:** 12/24/19**Sampled:** 12/16/19**Prepared:** 12/17/19**Analyzed:** 12/17/19**Thermox Influent
9L16010-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	11	ug/L	0.50	3.4	ppmv	0.16
Ethylbenzene	4.0	ug/L	0.50	0.92	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<4.0	ug/L	2.0	<1.1	ppmv	0.55
Toluene	4.7	ug/L	0.50	1.2	ppmv	0.13
o-Xylene	3.0	ug/L	0.50	0.69	ppmv	0.12
m,p-Xylenes	9.6	ug/L	1.0	2.2	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	92.1 %	70-140
Dibromofluoromethane	95.2 %	70-140
Toluene-d8	99.4 %	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5333264
Date Received: 12/16/19
Date Reported: 12/24/19
Sampled: 12/16/19
Prepared: 12/17/19
Analyzed: 12/17/19

Thermax Effluent
9L16010-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.25	ug/L	0.50	<0.078	ppmv	0.16
Ethylbenzene	<0.25	ug/L	0.50	<0.058	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<1.0	ug/L	2.0	<0.28	ppmv	0.55
Toluene	<0.25	ug/L	0.50	<0.066	ppmv	0.13
o-Xylene	<0.25	ug/L	0.50	<0.058	ppmv	0.12
m,p-Xylenes	<0.50	ug/L	1.0	<0.12	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	99.0 %	70-140
Dibromofluoromethane	95.5 %	70-140
Toluene-d8	98.1 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 10
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333264
Date Received: 12/16/19
Date Reported: 12/24/19
Sampled: 12/16/19
Prepared: 12/18/19
Analyzed: 12/18/19

Thermox Influent
9L16010-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	14000	ug/L	20	3400	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		117 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333264
Date Received: 12/16/19
Date Reported: 12/24/19
Sampled: 12/16/19
Prepared: 12/17/19
Analyzed: 12/17/19

Thermax Effluent
9L16010-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		108 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Method: GRO in Vapor as Hexane

AA Project No: A5333264
Date Received: 12/16/19
Date Reported: 12/24/19
Units: ppmv

Date Sampled:	12/16/19	12/16/19	
Date Prepared:	12/17/19	12/17/19	
Date Analyzed:	12/18/19	12/17/19	
AA ID No:	9L16010-01	9L16010-02	
Client ID No:	Thermox Influent	Thermox Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	10	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	3000	<5.7	5.7
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333264
Date Received: 12/16/19
Date Reported: 12/24/19

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B9L1717 - *** DEFAULT PREP ***</i>										
Blank (B9L1717-BLK1)				Prepared & Analyzed: 12/17/19						
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	54.9		ug/L	50		110	70-140			
<i>Surrogate: Dibromofluoromethane</i>	56.1		ug/L	50		112	70-140			
<i>Surrogate: Toluene-d8</i>	51.6		ug/L	50		103	70-140			
LCS (B9L1717-BS1)				Prepared & Analyzed: 12/17/19						
Benzene	19.9	0.50	ug/L	20		99.5	75-125			
Ethylbenzene	22.0	0.50	ug/L	20		110	75-125			
Methyl-tert-Butyl Ether (MTBE)	41.5	2.0	ug/L	40		104	75-125			
Toluene	20.0	0.50	ug/L	20		99.8	75-125			
o-Xylene	21.2	0.50	ug/L	20		106	75-125			
m,p-Xylenes	42.8	1.0	ug/L	40		107	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	52.4		ug/L	50		105	70-140			
<i>Surrogate: Dibromofluoromethane</i>	52.1		ug/L	50		104	70-140			
<i>Surrogate: Toluene-d8</i>	51.6		ug/L	50		103	70-140			
LCS Dup (B9L1717-BSD1)				Prepared: 12/17/19 Analyzed: 12/18/19						
Benzene	16.5	0.50	ug/L	20		82.6	75-125	18.6	30	
Ethylbenzene	21.1	0.50	ug/L	20		106	75-125	4.26	30	
Methyl-tert-Butyl Ether (MTBE)	27.3	2.0	ug/L	40		68.2	75-125	41.3	30	QL-03
Toluene	19.5	0.50	ug/L	20		97.6	75-125	2.18	30	
o-Xylene	20.2	0.50	ug/L	20		101	75-125	4.73	30	
m,p-Xylenes	42.7	1.0	ug/L	40		107	75-125	0.210	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	50.2		ug/L	50		100	70-140			
<i>Surrogate: Dibromofluoromethane</i>	46.9		ug/L	50		93.8	70-140			
<i>Surrogate: Toluene-d8</i>	50.7		ug/L	50		101	70-140			
Duplicate (B9L1717-DUP1)				Source: 9L16009-02 Prepared & Analyzed: 12/17/19						

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333264
Date Received: 12/16/19
Date Reported: 12/24/19

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B9L1717 - *** DEFAULT PREP ***</i>										
Duplicate (B9L1717-DUP1) Continued Source: 9L16009-02 Prepared & Analyzed: 12/17/19										
Benzene	<0.25	0.25	ug/L						30	
Ethylbenzene	<0.25	0.25	ug/L		0.180			5.41	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	<0.25	0.25	ug/L						30	
o-Xylene	<0.25	0.25	ug/L		0.185			0.00	30	
m,p-Xylenes	<0.50	0.50	ug/L		0.480			1.04	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.8</i>		<i>ug/L</i>	<i>50</i>		<i>102</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>50.7</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>51.8</i>		<i>ug/L</i>	<i>50</i>		<i>104</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B9L1716 - *** DEFAULT PREP ***</i>										
Blank (B9L1716-BLK1) Prepared & Analyzed: 12/17/19										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>46.2</i>		<i>ug/L</i>	<i>50</i>		<i>92.4</i>	<i>70-130</i>			
LCS (B9L1716-BS1) Prepared & Analyzed: 12/17/19										
Gasoline Range Organics (GRO)	474	20	ug/L	500		94.8	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>55.2</i>		<i>ug/L</i>	<i>50</i>		<i>110</i>	<i>70-130</i>			
LCS Dup (B9L1716-BSD1) Prepared & Analyzed: 12/17/19										
Gasoline Range Organics (GRO)	467	20	ug/L	500		93.3	75-125	1.54	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>51.9</i>		<i>ug/L</i>	<i>50</i>		<i>104</i>	<i>70-130</i>			
Duplicate (B9L1716-DUP1) Source: 9L16018-01 Prepared & Analyzed: 12/17/19										
Gasoline Range Organics (GRO)	2900	20	ug/L		3060			5.29	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>55.7</i>		<i>ug/L</i>	<i>50</i>		<i>111</i>	<i>70-130</i>			
<i>Batch B9L1825 - *** DEFAULT PREP ***</i>										
Blank (B9L1825-BLK1) Prepared & Analyzed: 12/18/19										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>53.8</i>		<i>ug/L</i>	<i>50</i>		<i>108</i>	<i>70-130</i>			
LCS (B9L1825-BS1) Prepared & Analyzed: 12/18/19										

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333264
Date Received: 12/16/19
Date Reported: 12/24/19

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B9L1825 - *** DEFAULT PREP ***</i>										
LCS (B9L1825-BS1) Continued				Prepared & Analyzed: 12/18/19						
Gasoline Range Organics (GRO)	556	20	ug/L	500		111	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	57.3		ug/L	50		115	70-130			
LCS Dup (B9L1825-BSD1)				Prepared & Analyzed: 12/18/19						
Gasoline Range Organics (GRO)	540	20	ug/L	500		108	75-125	2.99	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	57.8		ug/L	50		116	70-130			
Duplicate (B9L1825-DUP1)				Source: 9L16020-02 Prepared & Analyzed: 12/18/19						
Gasoline Range Organics (GRO)	819	20	ug/L						30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	54.4		ug/L	50		109	70-130			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B9L2333 - *** DEFAULT PREP ***</i>										
Blank (B9L2333-BLK1)				Prepared: 12/17/19 Analyzed: 12/23/19						
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B9L2333-DUP1)				Source: 9L16011-02 Prepared: 12/17/19 Analyzed: 12/23/19						
GRO as Hexane	178	5.7	ppmv			171		3.75	30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5333264
Date Received: 12/16/19
Date Reported: 12/24/19

Special Notes

[1] = **QL-03** : The recovery for this analyte is outside of the acceptance control limits for the LCSD. The data was validated based on the acceptable recovery for this analyte in the LCS.

A handwritten signature in black ink, appearing to read 'V. Vasile'.

Viorel Vasile
Operations Manager

APPENDIX B

LNAPL HAZARDOUS WASTE MANIFEST

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number
CA8971524360

2. Page 1 of 1

3. Emergency Response Phone
(310) 241-2833

4. Manifest Tracking Number
012170707 FLE

5. Generator's Name and Mailing Address
**Defense Logistics Agency Installation Support for Energy
3171 North Gaffey St.
San Pedro, CA 90731
Attn: Todd Williams
(310) 241-2834**

Generator's Site Address (if different than mailing address)
**DFSP Norwalk
15306 Norwalk Blvd.
Norwalk, CA 90650**

6. Transporter 1 Company Name
Nieto and Sons Trucking, Inc.

U.S. EPA ID Number
CAT080016116

7. Transporter 2 Company Name

U.S. EPA ID Number

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**DeMenno Kerdoon (Attn: Hannah)
2000 N. Alameda Street
Compton, CA 90222**

Facility's Phone:
(310) 537-7100

U.S. EPA ID Number
CAT080013352

9a. HM and Packing Group (if any)

9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))
**UN1993, Flammable Liquid, n.o.s., 3, PGII
(contains jet fuel)**

10. Containers

No.

Type

11. Total Quantity

12. Unit WL/Vol.

13. Waste Codes

001

TT

340

G

133

THIS WASTE STREAM HAS BEEN QUALIFIED FOR RECYCLING/TREATMENT AT THE DeMENNO/KERDOON DBA WORLD OIL RECYCLING FACILITY IN COMPTON, CALIFORNIA. THIS FACILITY HAS THE NECESSARY PERMITS TO RECEIVE YOUR WASTE STREAM AS QUALIFIED. OUR EPA NUMBER IS CAT080013352

14. Special Handling Instructions and Additional Information
**ERCA 1207 Jet Fuels & Groundwater
SGI/APEX Contact: Glenn Androska
(714) 608-1089**

WEAR ALL APPROPRIATE PROTECTIVE CLOTHING

BESI PO # 312118

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

Generator's/Offorer's Printed/Typed Name
Todd E. Williams

Signature

16. International Shipments

Import to U.S.

Export from U.S.

Month Day Year
10 25 19

Transporter signature (for exports only):

17. Transporter Acknowledgment of Receipt of Materials

Port of entry/exit:
Date leaving U.S.:

Transporter 1 Printed/Typed Name
Tim Jeanal

Signature

Transporter 2 Printed/Typed Name

Signature

Month Day Year
10 25 19

Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Reconciled quantity **284**

with **Steve**

of **Nieto**

Manifest Reference Number
on **11-1-19**

18b. Alternate Facility (or Generator)

Facility's Phone:

U.S. EPA ID Number

18c. Signature of Alternate Facility (or Generator)

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

Month Day Year

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name
GILBERT TEJEGARAY

Signature

Month Day Year
10 25 19

Certificate of Treatment/Recycling

ISSUED TO

DEFENSE LOGISTICS AGENCY E

FOR

MANIFEST NUMBER 012170707FLE

DATE RECEIVED 10/25/2019

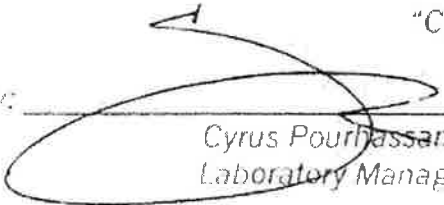
The aqueous waste received on the above manifest will be treated to standards mandated by the FEDERAL CLEAN WATER ACT and to effluent requirements established by the Sanitation Districts of Los Angeles County. Waste treatment and recycling is performed under permits granted to DeMENNO/KERDOON, a California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

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

DeMENNO/KERDOON

"Compliance Through Recycling"

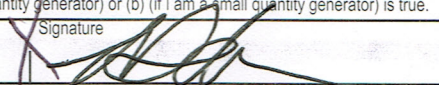
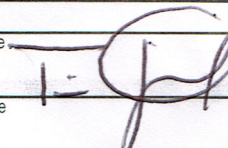
By: _____


Cyrus Pourhassanian
Laboratory Manager

Date: 11/14/2019

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

*DeMENNO/KERDOON is d.b.a. World Oil Recycling

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CA 8971524360	2. Page 1 of 1	3. Emergency Response Phone (310) 241-2833	4. Manifest Tracking Number 012170707 FLE				
5. Generator's Name and Mailing Address Defense Logistics Agency Installation Support for Energy 3171 North Gaffey St. San Pedro, CA 90731				Generator's Site Address (if different than mailing address) DFSP Norwalk 15306 Norwalk Blvd. Norwalk, CA 90650					
6. Transporter 1 Company Name Nieto and Sons Trucking, Inc.					U.S. EPA ID Number CAT080016116				
7. Transporter 2 Company Name					U.S. EPA ID Number				
8. Designated Facility Name and Site Address DeMenno Kerdoon (Attn: Hannah) 2000 N. Alameda Street Compton, CA 90222					U.S. EPA ID Number CAT080013352				
Facility's Phone: (310) 537-7100									
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
		No.	Type						
X	UN1993, Flammable Liquid, n.o.s., 3, PGI (contains jet fuel)	001	TT	340	G	133			
14. Special Handling Instructions and Additional Information ERG# 128 / Jet Fuels & Groundwater SGI/APEX Contact: Glenn Androska (714) 608-1089									
WEAR ALL APPROPRIATE PROTECTIVE CLOTHING									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offoror's Printed/Typed Name Todd E. Williams					Signature 		Month 10	Day 25	Year 19
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Tim Jeanal					Signature 		Month 10	Day 25	Year 19
Transporter 2 Printed/Typed Name					Signature		Month	Day	Year
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
Manifest Reference Number:									
18b. Alternate Facility (or Generator)					U.S. EPA ID Number				
Facility's Phone:									
18c. Signature of Alternate Facility (or Generator)							Month	Day	Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1.	2.	3.	4.						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name					Signature		Month	Day	Year