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August 15, 2019

Mr. Paul Cho, P.G.
Engineering Geologist, Site Cleanup V
California Environmental Protection Agency
Los Angeles Regional Water Quality Control Board
320 West 4th Street, Suite 200
Los Angeles, California 90013

Dear Mr. Cho:

Enclosed is one electronic copy of the *Remediation Status Report -- Second Quarter 2019 for the Defense Fuel Support Point Norwalk* (SCP NO. 0286A, SITE ID No. 16638) located at 15306 Norwalk Boulevard, Norwalk, California. This report summarizes remediation system operations during the reporting period of the second quarter in 2019 (April 1, 2019 through June 30, 2019).

If you have any questions or need additional information concerning this document, please contact Ms. Carol Devier-Heeney at (571) 767-8312 or carol.devier-heeney@dla.mil.

Sincerely,

William Y Potter
Digitally signed by POTTER.WILLIAM.Y.1394566272
Date: 2019.08.15 10:42:31 -04'00'

William Y. Potter, P.G.
Chief, Restoration Branch
Installation Management for Energy

Enclosure
As stated

cc: Daniel Swensson, P.G, Principal Geologist, SGI-Apex

REMEDIATION STATUS REPORT -SECOND 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:

Defense Logistics Agency Installation Management for Energy (DM-FEE)
Environmental Division Restoration Branch
8725 John J. Kingman Drive
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For Submittal To:

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AST	above ground storage tank
BTEX	Benzene, toluene, ethylbenzene, and total xylenes
°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
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
scfm	Standard cubic feet per minute
SFPP	Santa Fe Pacific Pipelines Partners, L.P.
SGI	The Source Group, Inc.
SVE	Soil vapor extraction
TBA	Tertiary-butyl alcohol
TOC	Top of casing
TPHd	Total petroleum hydrocarbons quantified as diesel
TPHg	Total petroleum hydrocarbons quantified as gasoline

UST	Underground storage tank
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 (Second Quarter 2019 - April 1, 2019 through June 30, 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 north-central former tank farm, the northeastern property boundary, off-site Holifield Park area, the northwestern corner of the Site, and the southern former water tank and truck fueling areas.

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 northwestern area (GW-2 and GW-13), north-central former tank farm area (GW-14R), and the northeastern boundary 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 has been conducted in accordance with National Pollutant Discharge Elimination System (NPDES) permit CAG994004, CI No. 7585 and South Coast Air Quality Management District (SCAQMD) Permit to Operate G6962, A/N 501180. 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 former truck fueling area, and northeastern and southern areas 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 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 area 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 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.

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 Truck 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 during this reporting period. 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 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 former tank farm and eastern boundary of the Site. The biosparge system has been off-line since the advent of recently completed soil cleanup activities per SGI's January 2018 *Shallow Soil Closure Report*. System recommissioning work was completed during the previous reporting period 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 5U. 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 RWQCB 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 RWQCB 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 RWQCB 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:

- Performed minimum weekly maintenance and monitoring of the carbon VES, thermal oxidizer VES and GWETS during operation (inactive during this period).
- 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. Additionally monitored for thicknesses of LNAPL sufficient to resume pumping in off-line wells while continuing extraction efforts from 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.
    - Well RTF-18-NNW has remained off-line due to insufficient yield since March 2018.
    - 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 is anticipated to resume from these wells during the next reporting period.
    - 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.
- Thermal oxidizer equipment shakedown testing and limited system startup testing.
- Biosparge system startup testing and phased implementation activities.

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 off-line during the reporting period pending the results of an alternative waste discharge evaluation. System OM&M details and monthly performance results for April, May, and June 2019 are summarized in Tables 2A, 2B and 2C, respectively.

A historical summary of influent water analytical sample results is provided in Table 6.

2.2 Soil Vapor Extraction Systems

The carbon VES system has been shut down since April 18, 2019, pending the purchase and installation of a new blower to improve performance and reduce the blower outlet temperatures. System OM&M details and performance results for April, May, and June 2019 are summarized in Tables 3A, 3B and 3C, respectively.

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.

The permanent thermal oxidizer VES was installed and startup was conducted on March 13, 2019. System operational hours were limited to daytime hours this period due to ongoing noise concerns from nearby residents. Sound blankets will be installed during third quarter 2019 to allow the thermal oxidizer to operate continuously. 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 on April 3, April 22, May 6, and June 6, 2019. 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 7 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 3,900 micrograms per liter (µg/L) (thermal oxidizer VES), 17 (µg/L) and non-detect (ND) <2.0 µg/L, respectively. Maximum historic levels for these constituents were previously 2,500 µg/L for GRO (September 2017) and 3.9 µg/L for benzene (September 2017). MTBE has never been detected.

2.3 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 5E along with associated LNAPL gauging results. All product is placed in an AST located within the existing treatment compound.

2.4 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 associated with rising groundwater levels following winter rains. Product recovery system OM&M details during this quarter are provided in Tables 5F through 5U.

2.5 Biosparge System

The biosparge wells associated with the original system are located in areas throughout the former tank farm 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. Biosparge operations conducted during this quarter were focused on wells BSP-21 through BSP-30. Biosparge system OM&M details during this quarter are provided in Tables 11A through 11C.

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 off-line during the reporting period pending the results of an alternative waste discharge evaluation.

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 has been shut down since April 18, 2019, pending the purchase and installation of a new blower to improve performance and reduce the blower outlet temperatures. 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 indicate very low vapor concentrations and minimal flow rate. The well was abandoned on June 7, 2019 and replaced with two new wells, HW-8 and HW-9.

During this quarter, wells RW-1, RW-4, RW-5, RW-9, RW-10, RW-11, RW-13, RW-18, RW-22, RW-23, RW-24, RW-26, RW-27, RW-28, RW-29, RW-30, RW-31, RW-32, RW-33, RW-35, RW-37, RW-40, RW-41, RW-42, RW-43, RW-44, RW-45, RW-47, RW-48, RW-49, RW-50, and VEW-40 were used as the extraction points for the thermal oxidizer VES based on field PID readings (Tables 9A through 9D) and previous quarters laboratory concentrations (Table 10). Additionally, wells TFR-5, TFR-7, TFR-9, TFR-10, TFR-11, TFR-13, TFR-16, TFR-19, TFR-21, TFR-24, TFR-26, TFR-28, TFR-30, TFR-35, TFR-36, and TFR-37 were also used as extraction points during the system startup testing of the permanent thermal oxidizer system in late March 2019.

The total mass of VOCs removed via the carbon and the thermal oxidizer extraction systems during this period was approximately 6,918 pounds (370 pounds via the carbon VES and 6,548 pounds via the thermal oxidizer VES). An estimated 2,982,775 pounds have been removed since April 1996 (Table 3C) via the carbon VES and approximately 15,028 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 this quarter is due in large part to the reduced overall uptime (Tables 4A, 4B and 4C) associated with the intermittent operations. Note that the total estimated mass of VOCs removed via SVE does not account for any mass removed *in-situ* via biodegradation.

3.3 LNAPL Removal Via Bailing, Skimming and Absorbent Socks

During the reporting period, DTW and DTP were measured in wells GMW-62, GMW-68, and TF-19; TF-15, TF-16, TF-18, GW-14R, GMW-18, TFR-9, TFR-12, TFR-15, TFR-22, TFR-24, TFR-29, and TFR-33; and RTF-18-N, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW (Tables 5A through 5T). Overall, LNAPL thickness and removal rates decreased in Q2 2019, attributed to rising groundwater.

Wells TF-15, TF-16, TF-18, GW-14R, GMW-18, TFR-9, TFR-12, TFR-15, TFR-22, TFR-24, TFR-29, and TFR-33; and RTF-18-N, RTF-18-E, RTF-18-W, and RTF-18-NW 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 is anticipated to resume from these wells during the next reporting period. 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.

For the remaining listed wells (GMW-62, GMW-68, TF-19), LNAPL was removed via manual bailing, active pumping using a portable product skimmer and/or by utilizing absorbent socks. Approximately 7.7 gallons (51.8 pounds) of LNAPL was recovered from the Site this period via these techniques.

3.4 Product Recovery System

A total of approximately 124 gallons (848.8 pounds) of LNAPL was pumped from wells TF-15, TF-16, TF-18, GW-14R, TFR-22, and TFR-29; and RTF-18-W during the reporting period, with most LNAPL recovered from wells TFR-29 (623 lbs) and TFR-22 (116 lbs).

LNAPL gauging results along with cumulative mass and volume removal estimates are summarized in Tables 5A through 5T. As the tables indicate, product thicknesses generally decreased during the current reporting period. Consequently, wells GW-14R, TFR-22, TFR-29, and RTF-18W were the only active pumping wells at the end of the reporting period.

When combined with the product recovery estimate from the preceding section 3.3, a total of approximately 131.7 gallons (900.6 pounds) of LNAPL was removed from the Site during this quarter, and an estimated 9,813 gallons (66,583 pounds) of LNAPL has been removed since January 2014.

3.5 Biosparge System

Recommissioning of the biosparge system was completed during the previous reporting period, and startup testing was conducted in late December 2018. System equipment testing was conducted in mid-December, and limited sparging operations began in late December in the wells BSP-21 through BSP-30 in the north-central part of the Site.

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 once the new blower is installed during the next reporting period.

For the permanent thermal oxidizer VES, the following wells were online during this quarter: RW-1, RW-4, RW-5, RW-9, RW-10, RW-11, RW-13, RW-18, RW-22, RW-23, RW-24, RW-26, RW-27, RW-28, RW-29, RW-30, RW-31, RW-32, RW-33, RW-35, RW-37, RW-40, RW-41, RW-42, RW-43, RW-44, RW-45, RW-47, RW-48, RW-49, RW-50, and VEW-40 were used as the extraction points for the thermal oxidizer VES.

Total system runtime for the permanent thermal oxidizer VES during this reporting period was limited due to restricted operations to just daytime hours during the week and off-line each weekend.

Biosparge operations will be expanded and will be limited to the same operational schedule as the thermal oxidizer to minimize the fugitive vapor risk.

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 northeastern and northwestern areas, 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 and northeast areas 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. As indicated on Tables 5F through 5T, LNAPL recovery was sufficient to allow for

pumping in wells TF-15, TF-16, GW-14R, TFR-22, and TFR-29; and RTF-18-W. However, LNAPL recovery rates in the majority of active wells decreased significantly, attributed to rising groundwater. Currently, wells TF-15, TF-16, GW-14R, TFR-22, TFR-29, and RTF-18W 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 such as RTF-18-E where automated operations were re-activated on December 27, 2018 and subsequently shut down on February 27, 2019 due to insufficient yield (Table 5R).

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 THIRD QUARTER 2019 ACTIVITIES

During the next reporting period, DLA Energy plans to continue to focus in-situ remedial efforts on the north-central, northeastern, northwestern, and southern former water tank and truck fueling areas of the Site along with completing the remaining activities necessary to expand thermal oxidizer VES and biosparge system operations to full-scale. Following is a summary of planned Third Quarter 2019 OM&M activities:

- Sound blankets will be installed around the permanent thermal oxidizer VES and the biosparge air compressor equipment to provide noise abatement in order to increase system uptime.
- 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, extraction wells located along the eastern to northeastern property boundary, the southern former water tank, and/or the truck fueling areas.
- Replace the existing blower for the carbon VES and restart the system.
- Connect the newly installed HW-8 and HW-9 wells to the carbon VES.
- Continue regular LNAPL gauging and removal activities (as applicable), including wells GMW-7, GMW-18, GWM-62 and GMW-68 (both located off site in Holifield Park), TF 19, and product recovery system wells TFR-9, 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-16, 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 GW-14R, TFR-22, TFR-29, and RTF-18W, located in the north-central portion of the Site, with focused efforts in wells where LNAPL yields are the most significant, and likely bring multiple previously active skimmer wells back online, as product thicknesses typically increase with the early summer seasonal decline in groundwater elevations.
- Conduct product recovery from applicable wells (e.g., GWM-18, GWM-68 and/or TF-15) with extraction frequencies and durations adjusted accordingly to help maximize the yield without isolating the well from the product plume.

- Continue working on GWETS waste discharge evaluation.
- 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 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).

Ongoing remediation activities and progress will be described in the *Third Quarter 2019 Remediation Progress Report* to be submitted by October 15, 2019.

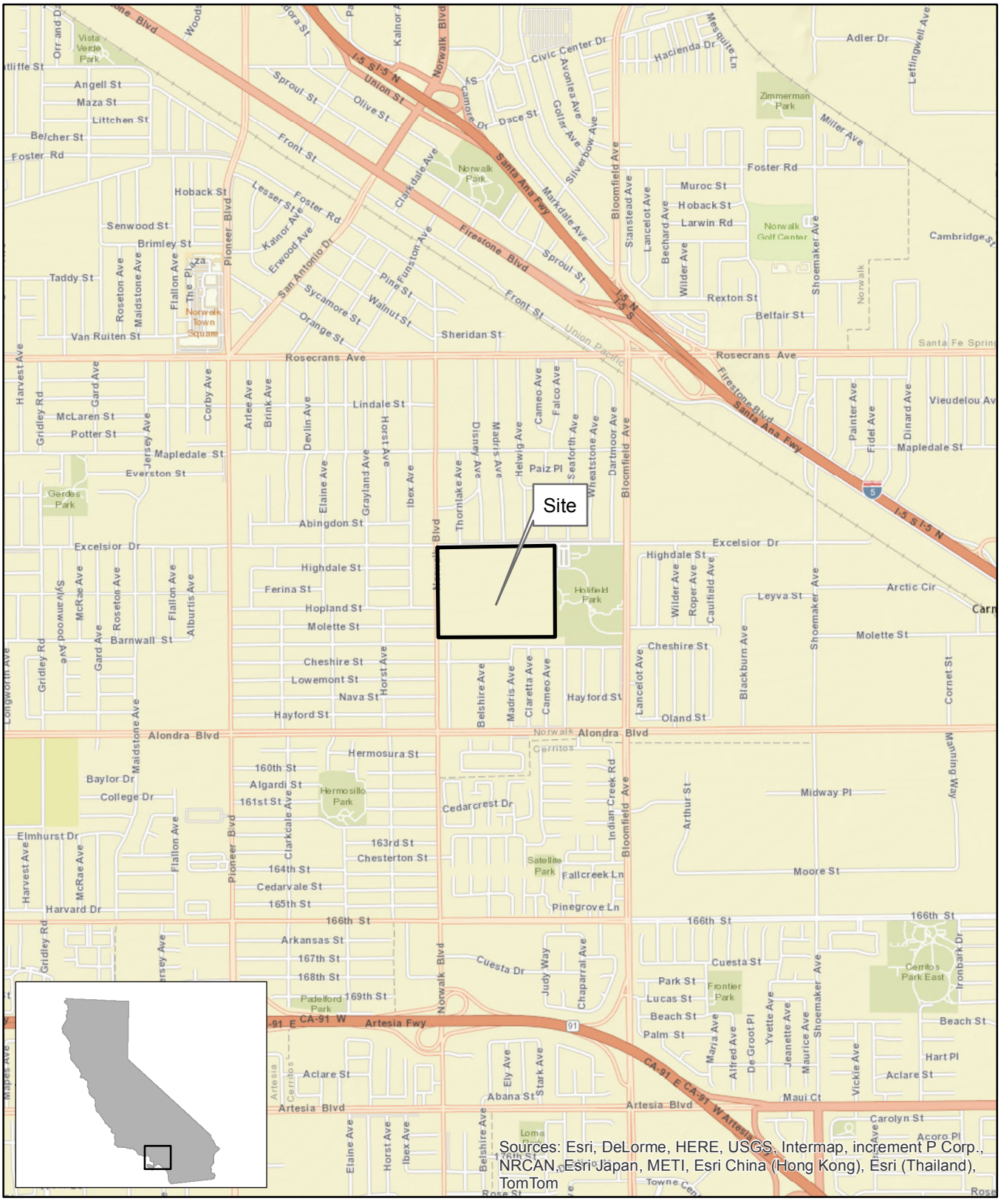
6.0 LIMITATIONS

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



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ESRI 7.5 MINUTE TOPOGRAPHIC MAP. http://resources.esri.com/arcgisonlineservices	04-NDLA-003	5/28/2014	JK	PP	0 1,000 2,000 4,000 Feet	

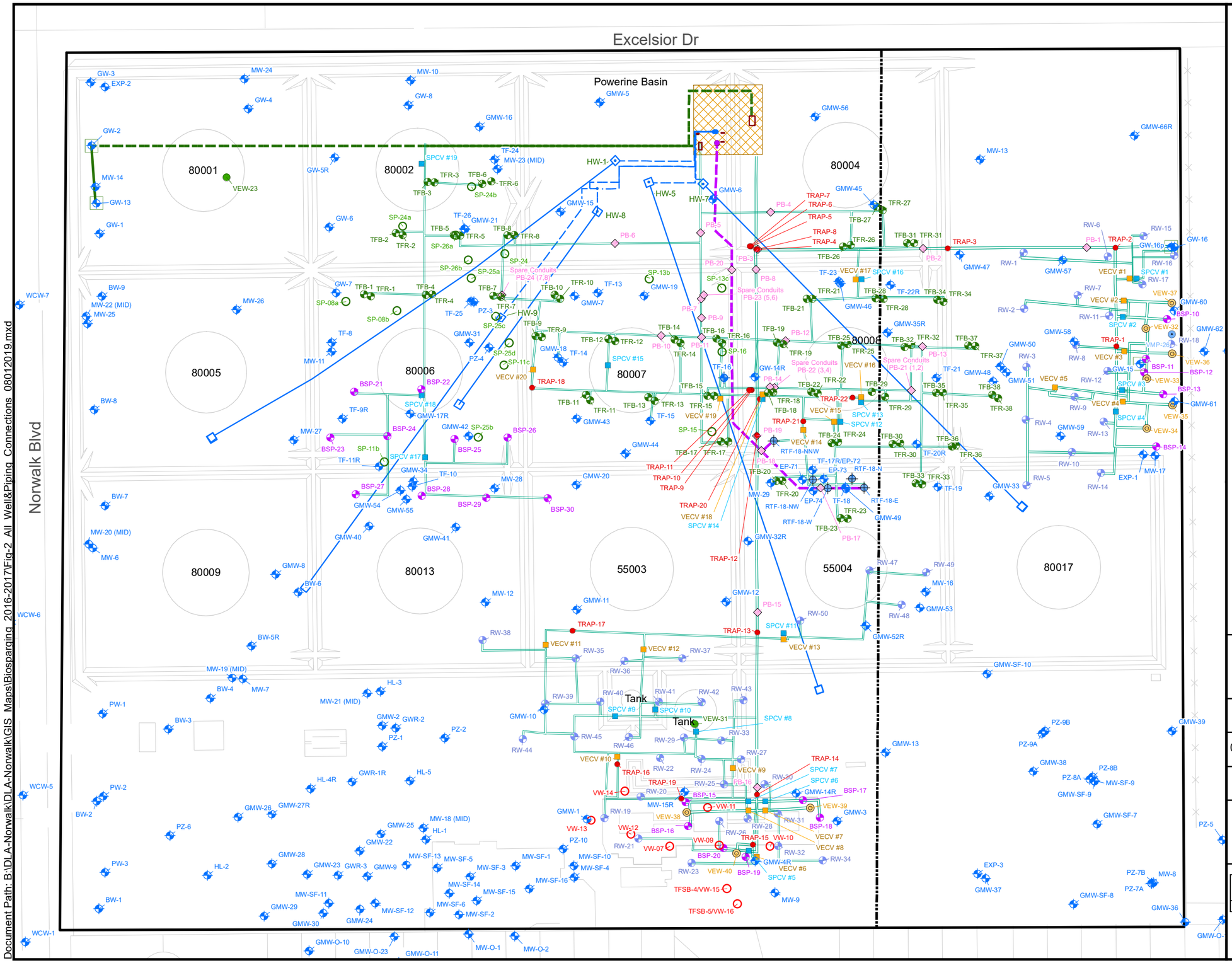
SGI environmental THE SOURCE GROUP, INC.
1962 FREEMAN AVENUE
SIGNAL HILL, CA 90755
(562) 597-1055

DEFENSE FUEL SUPPORT POINT NORWALK
15306 NORWALK BOULEVARD
NORWALK, CALIFORNIA

SITE LOCATION MAP

FIGURE **1**

Document Name: Fig-1_Norwalk_Site_Location_Map



Legend

- Former Above Ground Storage Tanks
- Fence
- DFSP Norwalk Border
- 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

N

DFSP Norwalk
15306 Norwalk Boulevard
Norwalk, California

Project Number:	Date:	Drawn By:	Approved By:
091-NDLA-018	08/01/2019	PW / SM	BT

0 70 140 280 Feet

Site Map Showing All Well and Piping Locations

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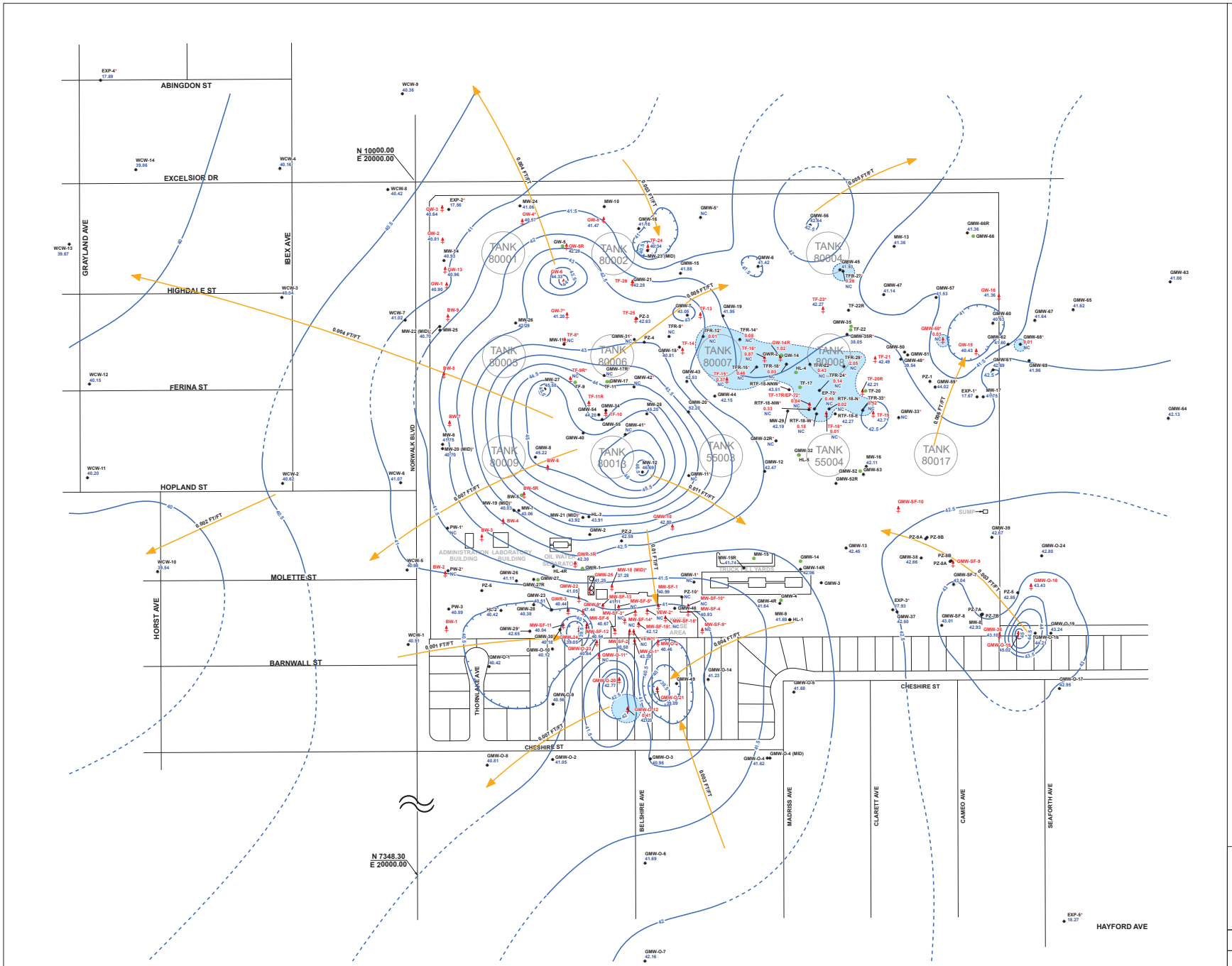
Figure 2

Document Path: B:\DLA-Norwalk\DLA-Norwalk\GIS Maps\Biosparging 2016-2017\Fig-2 All Well&Piping Connections 08012019.mxd



Explanation

- **GMW-5** ● Groundwater monitoring well
- **VEW-1** ▲ Vapor extraction, groundwater extraction, total fluids, or free product extraction well used for site remediation
- **GMW-47 42.19** ● Groundwater elevation in feet above mean sea level (MSL)
- **GMW-36 0.27 42.58** ▲ Apparent thickness of free product measured in well (feet), groundwater elevations calculated by removing product head effect.
- **GMW-47* NC** ● Groundwater elevation not used in contouring
- **TF-17** ● Decommissioned well
- **43.0** — Lines of equal groundwater elevation showing groundwater elevation in feet above MSL (dashed where inferred)
- Estimated extent of measurable light nonaqueous phase liquid (LNAPL, free product) on groundwater; dashed where inferred
- Approximate direction of groundwater flow and estimated horizontal hydraulic gradient in foot/foot (ft/ft)

Notes

1. Groundwater elevations and product thicknesses shown at wells are based on data collected by SGI, Blaine Tech, and SFPP in April 2019.
2. SFPP and DLA's remediation systems were shut down approximately 1 week prior to collecting fluid level measurements in April 2019.
3. Wells screened in the Exposition aquifer or near the bottom of the uppermost aquifer, or with groundwater elevations that are inconsistent with surrounding groundwater elevations, are not used in contouring. Groundwater elevation contours are intended to represent generalized site-wide conditions and are interpreted from data collected by Blaine Tech. Wells with groundwater elevations not used in contouring are marked with a red asterisk (*).
4. NC = groundwater elevation could not be calculated because well was either dry during the monitoring event, not measured due to an obstruction or other access complication, or the casing elevation is not available.
5. Wells at which a groundwater elevation or "NC" qualifier is not supplied are not included in the Monitoring and Reporting Program and were not visited during this monitoring event.
6. Fuel storage tanks depicted on the figure are historical structures and have been removed from the site.

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-3, and HL-4 based on field measurements by Fluor Daniel GTI and Woodward-Clyde.
4. Locations of wells BW-1 through BW-9 surveyed by Geomatrix based on reference to other wells surveyed by Dulin & Boynton.
5. Locations of wells TFR-9, TFR-12, TFR-14, TFR-15, TFR-18, TFR-22, TFR-24, TFR-27, TFR-29, and TFR-33 based on field measurements by SGI.

N

120 60 0 120
Feet

GROUNDWATER ELEVATIONS AND MEASURABLE LIQUID-PHASE HYDROCARBONS IN UPPERMOST GROUNDWATER ZONE
April 2019
DEFENSE FUEL SUPPORT POINT NORWALK
Norwalk, California

By: Ann Espejo	Date: 6/2019	Project No: 704383

JACOBS

Figure 3

TABLES

TABLE 1

Remediation Well Summary

DFSP Norwalk

15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
North-West (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
North-Central (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	--	--	25	Continuous	SVE
	HW-5	14	--	--	25	Continuous	SVE
	HW-7	14	--	--	25	Continuous	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	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
North-Central (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
North-Central (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	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
North-Central (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
	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

TABLE 1

Remediation Well Summary

DFSP Norwalk

15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
North-East	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
North-East	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
	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

TABLE 1

Remediation Well Summary

DFSP Norwalk

15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
Southern Former Truck Fueling Area and Adjacent Water Tank Area	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 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
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	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function

TF = Total fluid
TFE = Total fluid extraction
TFB = Total fluids biosparge
TFR = Total fluids recovery

TABLE 1

Remediation Well Summary

DFSP Norwalk

15306 Norwalk Blvd., Norwalk, CA

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

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.

TABLE 2A

Groundwater Extraction and Treatment System Operations Summary - April

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)	NPDES Discharge Totalizer Reading (gallons)	Groundwater Extracted and Treated Per Day (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed [A] (lb)
4/1/19	Off line	1	314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/2/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/3/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/4/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/5/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/6/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/7/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/8/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/9/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/10/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/11/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/12/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/13/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/14/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/15/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/16/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/17/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/18/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/19/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/20/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/21/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/22/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/23/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/24/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/25/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/26/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/27/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/28/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/29/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
4/30/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946

Cumulative Groundwater Discharged by the GWETS to Date (gallons)							
Period	April	Quarter 1, 2019	Quarter 2, 2019	Quarter 3, 2019	Quarter 4, 2019	2019 to Date	April 1996 to Date
Volume	0	126,436	0	--	--	126,436	79,414,388

Cumulative Mass DRO Removed by the GWETS [A] (lb)			
Period	April	Quarter 2 to Date	April 1996 to Date
Mass	0	0	9,945.9

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

Legend / Notes:

1 = GWETS off-line the entire month pending the completion of an alternative waste discharge evaluation study.

Groundwater extraction wells on line this month: Off-line

GWETS = Groundwater extraction and treatment system

µg/L - Micrograms per liter

lb = Pounds

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 on: Off-line

-- = Not applicable

TABLE 2B

Groundwater Extraction and Treatment System Operations Summary - May

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)	NPDES Discharge Totalizer Reading (gallons)	Groundwater Extracted and Treated Per Day (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed [A] (lb)
5/1/19	Off line	1	314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/2/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/3/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/4/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/5/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/6/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/7/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/8/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/9/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/10/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/11/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/12/19	Off line		314,397	136,007	607,406	760,833	1,474,341	450,404	1,001,681	0	--	9,946
5/13/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/14/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/15/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/16/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/17/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/18/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/19/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/20/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/21/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/22/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/23/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/24/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/25/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/26/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/27/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/28/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/29/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/30/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
5/31/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	May	Quarter 1, 2019	Quarter 2, 2019	Quarter 3, 2019	Quarter 4, 2019	2019 to Date	April 1996 to Date
Volume	0	126,436	0	--	--	126,436	79,414,388

Cumulative Mass DRO Removed by the GWETS [A] (lb)			
Period	May	Quarter 2 to Date	April 1996 to Date
Mass	0	0	9,945.9

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

Legend / Notes:

1 = GWETS off-line the entire month pending the completion of an alternative waste discharge evaluation study.

GWETS = Groundwater extraction and treatment system

µg/L - Micrograms per liter

lb = Pounds

DRO = Diesel range organics

Groundwater extraction wells on line this month: Off-line

A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit used) from sample collected on: Off-line

-- = Not applicable

TABLE 2C

Groundwater Extraction and Treatment System Operations Summary - June

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)	NPDES Discharge Totalizer Reading (gallons)	Groundwater Extracted and Treated Per Day (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed [A] (lb)
6/1/19	Off line	1	314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/2/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/3/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/4/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/5/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/6/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/7/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/8/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/9/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/10/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/11/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/12/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/13/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/14/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/15/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/16/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/17/19	Off line		293,114	113,804	607,406	796,262	1,474,341	450,404	1,001,681	0	--	9,946
6/18/19	Off line		314,397	136,007	607,406	798,740	1,474,341	450,404	1,001,681	0	--	9,946
6/19/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/20/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/21/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/22/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/23/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/24/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/25/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/26/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/27/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/28/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/29/19	Off line		314,397	136,007	607,406	866,935	1,474,341	450,404	1,001,681	0	--	9,946
6/30/19	Off line		314,397	136,007	607,406	866,935	12,591,304	5,229,441	1,001,681	0	--	9,946

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	June	Quarter 1, 2019	Quarter 2, 2019	Quarter 3, 2019	Quarter 4, 2019	2019 to Date	April 1996 to Date
Volume	0	126,436	0	--	--	126,436	79,414,388

Cumulative Mass DRO Removed by the GWETS [A] (lb)			
Period	June	Quarter 2 to Date	April 1996 to Date
Mass	0	0	9,945.9

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

Legend / Notes:

1 = GWETS off-line the entire month pending the completion of an alternative waste discharge evaluation study.

GWETS = Groundwater extraction and treatment system

µg/L - Micrograms per liter

lb = Pounds

DRO = Diesel range organics

Groundwater extraction wells on line this month: Off-line

A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit used) from sample collected on: Off-line

-- = Not applicable

TABLE 3A

Carbon Vapor Extraction System Operations Summary - April

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)
04/01/19	*		57,444	723	--	--	--	--	--	2,982,471
04/02/19	*		57,468	723	--	--	--	--	--	2,982,536
04/03/19	Technician	2	57,476	723	6	138	73	394	0.0	2,982,542
04/04/19	*		57,500	723	--	--	--	--	--	2,982,561
04/05/19	*		57,524	723	--	--	--	--	--	2,982,581
04/06/19	*		57,548	723	--	--	--	--	--	2,982,600
04/07/19	*		57,572	723	--	--	--	--	--	2,982,620
04/08/19	*		57,596	723	--	--	--	--	--	2,982,639
04/09/19	Technician		57,609	723	5	140	--	315	0.0	2,982,650
04/10/19	*		57,633	723	--	--	--	--	--	2,982,669
04/11/19	*		57,657	723	--	--	--	--	--	2,982,689
04/12/19	Technician		57,668	723	5	140	--	315	0.0	2,982,698
04/13/19	*		57,692	723	--	--	--	--	--	2,982,718
04/14/19	*		57,716	723	--	--	--	--	--	2,982,737
04/15/19	*		57,732	723	--	--	--	--	--	2,982,750
04/16/19	*		57,756	723	--	--	--	--	--	2,982,770
04/17/19	Technician		57,763	723	5	140	--	315	0.0	2,982,775
04/18/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
04/19/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
04/20/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
04/21/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
04/22/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
04/23/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
04/24/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
04/25/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
04/26/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
04/27/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
04/28/19	Off line	4	57,763	NA	--	--	220	228	--	2,982,775
04/29/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
04/30/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775

Cumulative Mass TPHg Removed by the VES [D] (lb)			
Period	April	Quarter 2 to Date	April 1996 to Date
Mass	370	370	2,982,775

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

Legend / Notes:

1 = Measured individual well vapor concentrations with a calibrated organic vapor analyzer.
2 = Collected monthly influent, after GAC-1, after GAC-2, and effluent samples for laboratory analysis.
3 = System shutdown pending replacement of GAC-2 outlet hose.
4 = System shutdown pending replacement of Blower.

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

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

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)
05/01/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/02/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/03/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/04/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/05/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/06/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/07/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/08/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/09/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/10/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/11/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/12/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/13/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/14/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/15/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/16/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/17/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/18/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/19/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/20/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/21/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/22/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/23/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/24/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/25/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/26/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/27/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/28/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/29/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/30/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
05/31/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775

Cumulative Mass TPHg Removed by the VES [A] (lb)			
Period	May	Quarter 2 to Date	April 1996 to Date
Mass	0	370	2,982,775

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

Legend / Notes:

1 = Measured individual well vapor concentrations with a calibrated organic vapor analyzer.

2 = Collected monthly influent, after GAC-1, after GAC-2, and effluent samples for laboratory analysis.

3 = VES temporarily off-line to conduct carbon change out fieldwork.

4 = System shutdown pending replacement of Blower.

-- = 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

in. Hg = Inches of mercury

°F = Degrees Fahrenheit

ppmv = Parts per million by volume

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 3C

Carbon Vapor Extraction System Operations Summary - June

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)
06/01/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/02/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/03/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/04/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/05/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/06/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/07/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/08/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/09/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/10/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/11/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/12/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/13/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/14/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/15/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/16/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/17/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/18/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/19/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/20/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/21/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/22/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/23/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/24/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/25/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/26/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/27/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/28/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/29/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775
06/30/19	Off line	4	57,763	NA	--	--	--	--	--	2,982,775

Cumulative Mass TPHg Removed by the VES [A] (lb)			
Period	June	Quarter 2 to Date	April 1996 to Date
Mass	0	370	2,982,775

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

Legend / Notes :

1 = Measured individual well vapor concentrations with a calibrated organic vapor analyzer.
2 = Collected monthly influent, after GAC-1, after GAC-2, and effluent samples for laboratory analysis.
3 = VES temporarily off-line to conduct carbon change out fieldwork.
4 = System shutdown pending replacement of Blower.

-- = 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
scfm = Standard cubic feet per minute
in. Hg = Inches of mercury
°F = Degrees Fahrenheit
ppmv = Parts per million by volume
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 - April

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)
04/01/19	*		172.5	1038	--	--	--	--	--	695
04/02/19	*		177.8	1038	--	--	--	--	--	713
04/03/19	Technician	3	183.0	1004	2	1454	210	836	27	730
04/04/19	*		186.0	1004	--	--	--	--	--	739
04/05/19	*		189.0	1004	--	--	--	--	--	749
04/06/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
04/07/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
04/08/19	*		198.0	1004	--	--	--	--	--	778
04/09/19	Technician		201.0	1016	12	1452	--	797	29	788
04/10/19	*		204.6	1016	--	--	--	--	--	800
04/11/19	*		208.3	1016	--	--	--	--	--	812
04/12/19	*		211.9	1016	--	--	--	--	--	824
04/13/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
04/14/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
04/15/19	*		222.8	1016	--	--	--	--	--	859
04/16/19	*		226.4	1016	--	--	--	--	--	871
04/17/19	Technician		230.0	1052	22	1453	--	2656	34	883
04/18/19	*		236.6	1052	--	--	--	--	--	906
04/19/19	*		243.2	1052	--	--	--	--	--	928
04/20/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
04/21/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
04/22/19	Technician	**3**	263.0	1005	22	1450	660	2160	27	1,129
04/23/19	*		268.7	1005	--	--	--	--	--	1,187
04/24/19	*		274.3	1005	--	--	--	--	--	1,245
04/25/19	*		280.0	1005	--	--	--	--	--	1,302
04/26/19	*		285.7	1005	--	--	--	--	--	1,360
04/27/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
04/28/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
04/29/19	*		302.7	1005	--	--	--	--	--	1,533
04/30/19	*		308.3	1005	--	--	--	--	--	1,590

Cumulative Mass TPHg Removed by the VES [D] (lb)			
Period	April	Quarter 2 to Date	January 2018 to Date
Mass	950.2	950.2	10,071.6

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

Legend / Notes:

1 = Thermal oxidizer manually shut down for weekend. System operational from 7am to 8pm.
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: RW-1, RW-4, RW-5, RW-9, RW-10, RW-11, RW-13, RW-18, RW-22, RW-23, RW-24, RW-26, RW-27, RW-28, RW-29, RW-30, RW-31, RW-32, RW-33, RW-35, RW-37, RW-40, RW-41, RW-42, RW-43, RW-44, RW-45, RW-47, RW-48, RW-49, RW-50; VEW-40; TFR-5, TFR-7, TFR-9, TFR-10, TFR-11, TFR-13, TFR-16, TFR-19, TFR-21, TFR-24, TFR-26, TFR-28, TFR-30, TFR-35, TFR-36, and TFR-37.

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 on: 4/3/19 and 4/22/19 (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 - May

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)
05/01/19	Technician		314.0	1018	30	1451	--	1902	30.2	1,653
05/02/19	*		319.0	1018	--	--	--	--	--	1,708
05/03/19	*		324.0	1018	--	--	--	--	--	1,763
05/04/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
05/05/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
05/06/19	Technician	**3**	339.0	1027	30	1452	710	1860	31	1,931
05/07/19	*		345.9	1027	--	--	--	--	--	2,008
05/08/19	*		352.8	1027	--	--	--	--	--	2,085
05/09/19	*		359.7	1027	--	--	--	--	--	2,161
05/10/19	*		366.6	1027	--	--	--	--	--	2,238
05/11/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
05/12/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
05/13/19	*		387.2	1,027	--	--	--	--	--	2,469
05/14/19	*		394.1	1,027	--	--	--	--	--	2,546
05/15/19	Technician		401.0	1101	27	1451	--	3659	26	2,628
05/16/19	*		406.4	1101	--	--	--	--	--	2,693
05/17/19	*		411.8	1101	--	--	--	--	--	2,757
05/18/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
05/19/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
05/20/19	Technician		428.0	1,072	28	1,451	--	2,734	30	2,946
05/21/19	*		431.9	1072	--	--	--	--	--	2,991
05/22/19	*		435.8	1072	--	--	--	--	--	3,036
05/23/19	*		439.6	1072	--	--	--	--	--	3,081
05/24/19	*		443.5	1072	--	--	--	--	--	3,126
05/25/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
05/26/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
05/27/19	*		455.1	1,072	--	--	--	--	--	3,262
05/28/19	Technician		459.0	1,073	28	1451	--	2704	32	3,307
05/29/19	*		466.3	1,073	--	--	--	--	--	3,393
05/30/19	*		473.7	1,073	--	--	--	--	--	3,478
05/31/19	*		481.0	1,073	--	--	--	--	--	3,563

Cumulative Mass TPHg Removed by the VES [D] (lb)			
Period	May	Quarter 2 to Date	January 2018 to Date
Mass	1,973.3	2,923.5	12,044.9

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

Legend / Notes:

1 = Thermal oxidizer manually shut down for weekend.
2 = Thermal oxidizer restarted.
3 = Collected monthly influent and effluent samples for laboratory analysis.
4 = Begin system operational from 7am to 8 pm only, due to noise complaint.

System operating under SCAQMD Permit #G52288
Vapor extraction wells on line this month: RW-1, RW-4, RW-5, RW-9, RW-10, RW-11, RW-13, RW-18, RW-22, RW-23, RW-24, RW-26, RW-27, RW-28, RW-29, RW-30, RW-31, RW-32, RW-33, RW-35, RW-37, RW-40, RW-41, RW-42, RW-43, RW-44, RW-45, RW-47, RW-48, RW-49, RW-50; VEW-40; TFR-5, TFR-7, TFR-9, TFR-10, TFR-11, TFR-13, TFR-16, TFR-19, TFR-21, TFR-24, TFR-26, TFR-28, TFR-30, TFR-35, TFR-36, and TFR-37.

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 sample collected on: 5/6/19 (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 - June

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)
06/01/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
06/02/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
06/03/19	Technician		503.0	1080	29	1452	--	4111	24	3,911
06/04/19	*		513.3	1080	--	--	--	--	--	4,074
06/05/19	*		523.7	1080	--	--	--	--	--	4,237
06/06/19	Technician	**3**	534.0	1058	28	1451	950	5375	31	4,396
06/07/19	*		541.2	1058						4,507
06/08/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
06/09/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
06/10/19	*		562.7	1058	--	--	--	--	--	4,840
06/11/19	*		569.9	1058	--	--	--	--	--	4,951
06/12/19	*		577.1	1058	--	--	--	--	--	5,062
06/13/19	*		584.3	1,058	--	--	--	--	--	5,173
06/14/19	*		591.5	1,058	--	--	--	--	--	5,285
06/15/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
06/16/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
06/17/19	Technician		613.0	1086	28	1452	--	2667	23	5,626
06/18/19	*		622.3	1,086	--	--	--	--	--	5,773
06/19/19	*		631.5	1,086	--	--	--	--	--	5,920
06/20/19	*		640.8	1,086	--	--	--	--	--	6,067
06/21/19	*		650.0	1,086	--	--	--	--	--	6,213
06/22/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
06/23/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
06/24/19	*		677.8	1086	--	--	--	--	--	6,654
06/25/19	Technician		687.0	1,085	27	1,450	--	380	7	6,800
06/26/19	*		695.1	1,085	--	--	--	--	--	6,929
06/27/19	*		703.3	1,085	--	--	--	--	--	7,058
06/28/19	*		711.4	1,085	--	--	--	--	--	7,188
06/29/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA
06/30/19	offline	1	NA	NA	NA	NA	NA	NA	NA	NA

Cumulative Mass TPHg Removed by the VES [D] (lb)			
Period	June	Quarter 2 to Date	January 2018 to Date
Mass	3,624.1	6,547.6	15,028.6

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

Legend / Notes:

1 = Thermal oxidizer manually shut down for weekend.
2 = Thermal oxidizer restarted.
3 = Collected monthly influent and effluent samples for laboratory analysis.
4 = Begin system operational from 7am to 8 pm only, due to noise complaint.

System operating under SCAQMD Permit #G52288
Vapor extraction wells on line this month: RW-1, RW-4, RW-5, RW-9, RW-10, RW-11, RW-13, RW-18, RW-22, RW-23, RW-24, RW-26, RW-27, RW-28, RW-29, RW-30, RW-31, RW-32, RW-33, RW-35, RW-37, RW-40, RW-41, RW-42, RW-43, RW-44, RW-45, RW-47, RW-48, RW-49, RW-50; VEW-40; TFR-5, TFR-7, TFR-9, TFR-10, TFR-11, TFR-13, TFR-16, TFR-19, TFR-21, TFR-24, TFR-26, TFR-28, TFR-30, TFR-35, TFR-36, and TFR-37.

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 sample collected on: 6/6/19 (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 - 2nd 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)
04/04/19	--	34.83	--	0	1.8	0.3	138.9	950.3
04/25/19	36.88	37.09	0.21	0	2.0	0.3	139.2	952.3
05/02/19	--	32.28	--	0	2.3	0.3	139.5	954.6
05/15/19	--	31.19	--	0	2.3	0.3	139.8	956.8
05/30/19	--	33.94	--	0	3.3	0.5	140.3	960.1
06/06/19	--	33.50	--	0	2.8	0.4	140.7	962.8
06/12/19	--	33.28	--	0	2.8	0.4	141.1	965.6

Cumulative for the Reporting Period:	**0**	**17**	**2.5**	**2.5**	**17**
Cumulative Beginning January 2014 [A]:	**112**	**199**	**29**	**141**	**966**

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 - 2nd 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)
04/04/19	--	33.91	--	0	2.5	0.4	63	428
04/17/19	--	33.85	--	0	3.3	0.5	63	431
04/25/19	35.25	35.92	0.67	0	4.0	0.6	64	435
05/02/19	--	31.97	--	0	3.5	0.5	64	439
05/15/19	--	31.15	--	0	3.3	0.5	65	442
05/30/19	33.28	33.88	0.60	0	3.3	0.5	65	445
06/06/19	32.56	32.96	0.40	0	3.8	0.5	66	449
06/12/19	32.72	33.28	0.56	0	3.3	0.5	66	452
06/20/19	32.41	32.75	0.34	0	3.3	0.5	67	455
06/26/19	32.27	32.62	0.35	0	3.3	0.5	67	459

Cumulative for the Reporting Period:	**0**	**33**	**4.9**	**4.9**	**33**
Cumulative Beginning October 2016 [A]:	**34**	**233**	**34**	**67**	**459**

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 TF-19 - 2nd 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)
06/06/19	--	32.53	0.00	0	1.8	0.3	35	242

Cumulative for the Reporting Period:	**0**	**1.8**	**0.3**	**0.3**	**1.8**
Cumulative Beginning June 2015 [A]:	**0**	**196**	**29**	**35**	**242**

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 5D
Summary of LNAPL Removal in Well TF-15 - 2nd 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)
04/17/19	31.99	32.41	0.42	0.0	No Sock in Well	NA	188	1,285
04/25/19	34.24	34.74	0.50	5.0	No Sock in Well	NA	193	1,319
05/02/19	33.09	33.26	0.17	2.0	No Sock in Well	NA	195	1,333
Cumulative for the Reporting Period [B]:				**7.0**	**0**	**0**	**7.0**	**48**
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 5E
Summary of LNAPL Removal in Well TF-16 - 2nd 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)
05/02/19	33.81	34.14	0.33	0.0	No Sock in Well	0	330	2,262
05/06/19	33.73	33.95	0.22	2.0	No Sock in Well	0	332	2,275
Cumulative for the Reporting Period:				**2.0**	**0**	**0**	**2.0**	**14**
Cumulative Beginning March 2017 - June 2019 [B]:				**323**	**0**	**0**	**323**	**2,210**
Cumulative Beginning October 2016 [A]:				**327**	**36**	**5.2**	**332**	**2,275**

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 5F
Summary of LNAPL Removal in Well TF-18 - 2nd 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 2nd 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 5G
Summary of LNAPL Removal in Well GW-14R - 2nd 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)
04/04/19	33.72	34.31	0.59	2.0	No Sock in Well	NA	348	2,381
04/17/19	--	33.24	--	3.0	No Sock in Well	NA	351	2,402
05/02/19	33.38	33.74	0.36	0	No Sock in Well	NA	351	2,402
05/06/19	--	33.53	--	1.0	No Sock in Well	NA	352	2,409
Cumulative for the Reporting Period:				**6.0**	**0**	**0**	**6.0**	**41**
Cumulative Beginning October 2018 [A,B]:				**352**	**0**	**0**	**352**	**2,409**

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 5H
Summary of LNAPL Removal in Well GMW-18 - 2nd 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 2nd 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 5l
Summary of LNAPL Removal in Well TFR-9 - 2nd 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 2nd 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 5J
Summary of LNAPL Removal in Well TFR-12 - 2nd 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 2nd Quarter 2019							

Cumulative for the Reporting Period:	**0**	**0**	**0**	**0**	**0**
Cumulative Beginning April 2018 [A,B]:	**282**	**0**	**0**	**282**	**1,932**

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 5K
Summary of LNAPL Removal in Well TFR-15 - 2nd 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 2nd 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 5L
Summary of LNAPL Removal in Well TFR-22 - 2nd 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)
04/04/19	32.97	33.39	0.42	2.0	No Sock in Well	NA	106	725
04/17/19	32.62	32.76	0.14	4.0	No Sock in Well	NA	110	753
05/30/19	32.50	33.34	0.84	0.0	No Sock in Well	NA	110	753
06/12/19	32.70	33.22	0.52	5.0	No Sock in Well	NA	115	787
06/20/19	33.15	33.19	0.04	3.0	No Sock in Well	NA	118	808
06/26/19	32.90	32.95	0.05	2.0	No Sock in Well	NA	120	821
06/30/19	--	--	--	1.0	No Sock in Well	NA	121	828

Cumulative for the Reporting Period:	**17**	**0**	**0**	**17**	**116**
Cumulative Beginning October 2018 [A,B]:	**121**	**0**	**0**	**121**	**828**

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 - 2nd 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 2nd 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 - 2nd 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)
04/04/19	32.38	35.37	2.99	4.0	No Sock in Well	NA	569	3,897
04/17/19	32.44	34.20	1.76	10.0	No Sock in Well	NA	579	3,965
04/25/19	32.35	35.50	3.15	8.0	No Sock in Well	NA	587	4,020
05/02/19	32.27	34.22	1.95	7.0	No Sock in Well	NA	594	4,068
05/06/19	32.20	34.04	1.84	4.0	No Sock in Well	NA	598	4,095
05/15/19	32.20	34.53	2.33	9.0	No Sock in Well	NA	607	4,157
05/22/19	32.01	34.18	2.17	6.0	No Sock in Well	NA	613	4,198
05/30/19	32.03	34.58	2.55	8.0	No Sock in Well	NA	621	4,252
06/12/19	32.13	34.74	2.61	14.0	No Sock in Well	NA	635	4,348
06/20/19	32.30	35.10	2.80	9.0	No Sock in Well	NA	644	4,410
06/26/19	32.30	34.90	2.60	7.0	No Sock in Well	NA	651	4,458
06/30/19	--	--	--	5.0	No Sock in Well	NA	656	4,492
Cumulative for the Reporting Period:				**91**	**0**	**0**	**91**	**623**
Cumulative Beginning April 2018 [A,B]:				**656**	**0**	**0**	**656**	**4,492**

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 5O
Summary of LNAPL Removal in Well TFR-33 - 2nd 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 2nd Quarter 2019							

Cumulative for the Reporting Period:	**0**	**0**	**0**	**0**	**0**
Cumulative Beginning October 2018 [A,B]:	**124**	**0**	**0**	**124**	**849**

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-N - 2nd 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 2nd 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 5Q
Summary of LNAPL Removal in Well RTF-18-E - 2nd 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 2nd Quarter 2019							
Cumulative for the Reporting Period:				**0**	**0**	**0**	**0**	**0**
Cumulative Beginning May 2016 - July 2016 [A]:				**48**	**0**	**0**	**48**	**325**
Cumulative Beginning August 2016 - June 2019 [B]:				**591**	**0**	**0**	**591**	**4,048**
Cumulative Beginning May 2016 [A]:				**639**	**0**	**0**	**639**	**4,373**

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 5R
Summary of LNAPL Removal in Well RTF-18-W - 2nd 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)
04/04/19	--	32.60	--	1.0	0	0	410	2,804

Cumulative for the Reporting Period:	**1.0**	**0**	**0**	**1.0**	**6.8**
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 5S
Summary of LNAPL Removal in Well RTF-18-NW - 2nd 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 2nd 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 5T
Summary of LNAPL Removal in Well RTF-18-NNW - 2nd 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 2nd 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 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)
4/22/08		--	--	--	--	**71**	**25**	**17**	**42**	**30**	**14**	**4.6**	<2.0	<2.0	<2.0
5/1/08		--	--	**810**	--	--	--	--	--	--	--	--	--	--	--
5/16/08		--	--	**760**	--	--	--	--	--	--	--	--	--	--	--
6/12/08		--	--	--	--	<0.50	<0.50	<0.50	<0.50	<0.50	**25**	**7.7**	<2.0	<2.0	<2.0
7/19/08		--	--	**170**	<100	**27**	**0.77**	**7.0**	**13**	**7.9**	<10	**3.9**	<2.0	<2.0	<2.0
9/3/08		--	--	--	--	--	--	--	--	--	<10	--	--	--	--
9/8/08		--	--	--	--	**27**	**0.99**	**8.3**	**13**	**8.2**	<10	**3.1**	<2.0	<2.0	<2.0
9/15/08		--	--	--	--	**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
1/9/09		--	--	--	--	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
3/5/09		--	--	<100	--	**21**	<0.50	**2.5**	**7.2**	**3.1**	**12**	**3.1**	<2.0	<2.0	<2.0
3/18/09		--	--	**200**	**170**	**21**	<0.50	**2.9**	**7.0**	**4.5**	**13**	**3.3**	<2.0	<2.0	<2.0
5/15/09		--	--	<100	--	--	--	--	--	--	--	--	--	--	--
6/4/09		--	--	**190**	--	**26**	<0.50	**3.3**	**10**	**6.6**	<10	**4.8**	<2.0	<2.0	<2.0
6/24/09		--	--	--	--	**28**	<0.50	**2.5**	**7.6**	**4.2**	**12**	**4.4**	<2.0	<2.0	<2.0
5/28/09		--	--	**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
6/1/11		--	--	**90**	--	--	--	--	--	--	--	--	--	--	--
7/14/11		--	--	--	--	**13**	<0.50	**2.3**	**6.2**	**3.0**	**6.7**	**1.6**	<2.0	<2.0	<2.0
9/13/11		--	--	--	--	**5.0**	<0.50	**0.37**	**3.4**	**0.99**	<10	**1.3**	<2.0	<2.0	<2.0
9/22/11		--	--	--	--	**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
1/20/12		--	--	--	--	**14**	<0.50	**2.8**	**7.8**	**1.2**	**16**	**1.3**	**0.42**	<2.0	<2.0
2/3/12		--	--	**120**	**340**	--	--	--	--	--	--	--	--	--	--
2/17/12		--	--	--	--	**10**	<0.50	**1.5**	**7.4**	**1.2**	**15**	**1.2**	**0.39**	<2.0	<2.0
2/24/12		--	--	**180**	--	**26**	<0.50	**1.0**	**7.0**	**1.2**	<10	**1.2**	**0.41**	<2.0	<2.0
3/2/12		--	--	--	--	**23**	<0.50	**1.4**	**11**	**2.4**	**8.7**	**1.4**	**0.47**	<2.0	<2.0
3/6/12		--	--	--	--	**28**	<0.50	**1.0**	**9.0**	**1.7**	**13**	**1.1**	**0.37**	<2.0	<2.0

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)
6/15/12		--	--	--	--	**39**	**13**	**17**	**88**	**26**	<10	**1.3**	**0.52**	<2.0	<2.0
8/31/12		--	--	**820**	**940**	--	--	--	--	--	--	--	--	--	--
9/27/12		--	--	**5,300**	**3,800**	--	--	--	--	--	--	--	--	--	--
10/23/12		--	--	--	--	**67**	**60**	**110**	**460**	**140**	<10	<0.50	<2.0	<2.0	<2.0
1/31/13		--	--	**3,600**	--	--	--	--	--	--	--	--	--	--	--
5/1/13		--	--	**6,300**	**5,500**	**20**	**4.7**	**8.0**	**41**	**14**	**4.8**	**0.56**	<2.0	<2.0	<2.0
7/12/13		--	--	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
8/20/13		--	--	<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
2/7/14		--	--	**1,500**	**2,300**	--	--	--	--	--	--	--	--	--	--
3/21/14		--	--	--	--	**61**	**5.1**	**23**	**150**	**45**	<10	**0.87**	<2.0	<2.0	<2.0
5/29/14	1	--	8015M & 8260B	--	--	**29**	**1.0**	**30**	**180**	**45**	<10	**1.0**	<2.0	<2.0	<2.0
7/9/14	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
8/13/14		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
9/17/14		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	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	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
1/14/15	1,2	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
2/20/15	2,4	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
3/27/15		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
5/11/15	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
6/3/15		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
7/9/15		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
8/17/15		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
9/3/15		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
10/5/15		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
11/2/15		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
12/7/15		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
1/12/16		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
2/1/16		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

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)
3/14/16		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
4/4/16	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
5/4/16		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
6/1/16		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
7/11/16		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
8/1/16		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
9/1/16		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
11/1/16	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
12/5/16		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
1/9/17		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
2/6/17	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
3/15/17	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
4/5/17	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
5/3/17		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
6/5/17		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
7/19/17	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
8/2/17		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
9/13/17		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
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
1/11/18	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
2/26/18	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
3/20/18	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
4/2/18	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
5/2/18	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
6/4/18		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
7/2/18	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
8/6/18		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
9/13/18		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

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)
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
1/8/19		GW-2, GW-13, GW-15, GW-16	8015M & 8260B												
2/6/19	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.

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.

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	109	**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

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)

Legend / Notes:

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

Influent vapor sample inadvertently not collected during August 2016.

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

-- = Not available or not analyzed

<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.

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.

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		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)
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	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
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**	<0.13	<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	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**	<0.13	<0.50	**0.28**	**1.2**	<0.12	<0.50	**0.76**	**3.3**	<0.35	<1.5	<0.55	<2.0
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**	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	**0.28**	**1.2**	<0.35	<1.5	<0.55	<2.0
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**	<0.13	<0.50	**0.17**	**0.72**	<0.12	<0.50	**0.53**	**2.3**	<0.35	<1.5	<0.55	<2.0
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**	<0.27	<1.0	<0.23	<1.0	<0.23	<1.0	**0.55**	**2.4**	<0.35	<1.5	<1.1	<4.0
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**	**0.58**	**2.2**	**0.23**	**1.0**	**0.25**	**1.1**	**0.92**	**4.0**	<0.35	<1.5	<0.55	<2.0
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**	**0.34**	**1.3**	**0.41**	**1.8**	**0.18**	**0.77**	**0.94**	**4.1**	<0.35	<1.5	<0.28	<1.0
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**	<0.13	<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	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**	<0.13	<0.5	**0.18**	**0.77**	<0.12	<0.5	**0.41**	**1.8**	<0.35	<1.5	<0.55	<2.0
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**	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.38	<1.8	<0.55	<2.0
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**	<0.13	<0.50	<0.12	<0.50	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
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	**836**	**210**	**860**	**190**	**860**	**0.28**	**0.91**	<0.13	<0.50	<0.12	<0.50	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
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	**2,160**	**660**	**2,700**	**600**	**2,700**	**2.9**	**9.2**	<0.13	<0.50	**0.28**	**1.2**	**0.13**	**0.58**	**0.41**	**1.8**	**0.54**	**2.38**	<0.55	<2.0
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**	<0.13	<0.50	**0.46**	**2.0**	<0.12	<0.50	**0.64**	**2.8**	**0.64**	**2.8**	<0.55	<2.0
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**	**0.21**	**0.8**	**0.25**	**1.1**	<0.12	<0.5	**0.46**	**2.0**	**0.46**	**2.0**	<0.55	<2.0

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

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 AST Area Horizontal Wells and Select Vertical 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 **	VEW-32	VEW-33	VEW-34	VEW-35	VEW-36	VEW-37	VEW-38	VEW-39	VEW-40
			25	25	25	25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	20 - 30	20 - 30	20 - 30
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	154	10	4.2	5.5	6.4	20	--	--	--
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	134	5.6	3.3	2.1	4.1	18	--	--	--
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	6.3	0.4	0.4	0.2	0	0	--	--	--
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	174	0.2	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	191	22	8.0	28	9.1	151	--	--	--
12/17/14	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	0	0	0	0.2	62	37	2.0	15	24	11	--	--	--
03/30/15	4,5	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	24	2	62	382.0	2.5	0.1	0.3	4.8	20	1.0	--	--	--
04/02/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	400	34	270	370	25	4.1	0	0	0	0	--	--	--
04/06/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	825	160	835	800	171	5.7	3.0	0	0	0	--	--	--
04/08/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	800	315	600	580	195	35	25	0	0	0	--	--	--
04/15/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	680	297	545	585	273	223	87	0	0	0	--	--	--
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	210	324	115	4.8	5.7	2.4	--	--	--
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	1,947	28	676	732	456	334	63	16	2.2	3.9	--	--	--
08/20/15	6,9	VEW-32, VEW-33, HW-1, HW-3, HW-5	1,792	--	1,283	1,526	530	329	--	--	--	--	--	--	--
09/08/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	1,914	--	839	1,811	395	162	--	--	--	--	--	--	--
09/16/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	1,333	--	756	1,142	266	184	--	--	--	--	--	--	--
10/09/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	854	--	462	807	343	258	--	--	--	--	--	--	--
11/04/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	605	--	372	500	401	184	--	--	--	--	--	--	--
12/07/15	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	880	--	590	760	327	246	88	22	12	14	--	--	--

TABLE 9A

Historical Summary of Field Vapor Readings - Former AST Area Horizontal Wells and Select Vertical 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 **	VEW-32	VEW-33	VEW-34	VEW-35	VEW-36	VEW-37	VEW-38	VEW-39	VEW-40
			25	25	25	25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	20 - 30	20 - 30	20 - 30
01/13/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	640	--	415	390	220	260	72	34	22	17	--	--	--
02/08/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	520	--	300	240	160	220	55	42	28	11	--	--	--
03/02/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	400	--	360	180	120	240	47	31	32	15	--	--	--
04/06/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	420	--	260	220	60	380	29	22	18	12	--	--	--
05/04/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	400	--	240	180	90	340	36	18	25	19	--	--	--
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	20	140	11	9.0	34	8.3	--	--	--
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	32	80	9.1	7.3	30	6.4	--	--	--
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	20	60	17	8.8	20	7.1	--	--	--
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	12	45	11	6.1	14	5.4	--	--	--
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	15	33	17	8.1	19	6.7	--	--	--
06/05/17		HW-1, HW-3, HW-5	107	15	82	211	10	14	8.0	7.1	12	11	--	--	--
07/19/17	13	HW-5, HW-7 and VEW-39	--	49	79	286	12	47	9.3	4.1	6.2	4.8	550	1,680	9,600
08/09/17	14,15	HW-1, HW-5, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	192	--	94	236	5.5	27	7.7	2.3	3.7	5.4	540	940	8,000
09/07/17	14,15	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	180	--	60	220	9.2	20	11	5.5	14	10	480	190	9,200
10/12/17	14,15	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	220	--	80	260	13	28	14	9.3	19	12	270	330	5,800
11/02/17	14,15	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	346	--	105	334	10	23	11	6.6	15	9.1	400	620	3,700
12/11/17	14,15	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	280	--	90	220	7.7	20	9.3	5.1	8.8	9.1	360	480	4,900
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	--	--	--	--	--	--	--	--	--

TABLE 9A

Historical Summary of Field Vapor Readings - Former AST Area Horizontal Wells and Select Vertical 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 **	VEW-32	VEW-33	VEW-34	VEW-35	VEW-36	VEW-37	VEW-38	VEW-39	VEW-40
			25	25	25	25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	20 - 30	20 - 30	20 - 30
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	--	--	--	--	7.2	2.4	8.1	7.3	0.4	4.3	420	54	4,200
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	--	--	--	--	--	--	--	--	--	--	51	185	5,100
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	--	--	--	--	--	--	--	--	--	--	--	--	>15,000
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	--	--	--	--	--	--	--	--	--	--	--	--	>15,000
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	--	--	--	--	--	--	--	--	--	--	--	--	>15,000
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	15,17	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	591	--	234	730	--	--	--	--	--	--	--	--	--
03/27/19	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	--	--	--	--	--	--	--	--	--	--	--	--	2,990

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 system startup on 3/13/19.

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

TABLE 9A

Historical Summary of Field Vapor Readings - Former AST Area Horizontal Wells and Select Vertical 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 **	VEW-32	VEW-33	VEW-34	VEW-35	VEW-36	VEW-37	VEW-38	VEW-39	VEW-40
			25	25	25	25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	20 - 30	20 - 30	20 - 30

** = 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 9B

Historical Summary of Field Vapor Readings - Northeastern 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																			
			RW-1	RW-2	RW-3	RW-4	RW-5	RW-6	RW-7	RW-8	RW-9	RW-10	RW-11	RW-12	RW-13	RW-14	RW-15	RW-16	RW-17	RW-18	TFR-26	TFR-28	TFR-34
			15 - 35	13 - 33	17 - 37	14 - 34	14 - 34	17 - 37	17 - 37	18.5 - 38.5	15 - 35	14 - 34	16 - 36	14 - 34	15 - 35	14 - 34	18 - 38	14 - 34	19 - 39	18 - 38	18 - 38	18 - 38	18 - 38
08/09/17	1,2,3	HW-1, HW-5, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	1,268	16	--	--	--	--	120	--	1,164	--	--	76	2,440	--	--	--	--	374	--	--	--
09/07/17	2,3	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	3,860	99	--	--	--	--	495	--	320	--	--	90	2,870	--	--	--	--	679	--	--	--
10/12/17	2,3	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	2,480	75	--	--	--	--	310	--	660	--	--	120	2,620	--	--	--	--	580	--	--	--
11/02/17	2,2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	3,140	50	--	--	--	--	225	--	840	--	--	140	3,200	--	--	--	--	430	--	--	--
12/11/17	2,3	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	2,250	60	--	--	--	--	180	--	590	--	--	80	3,040	--	--	--	--	350	--	--	--
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	31	68	598	4,600	15	181	5.1	2,824	>10,000	420	5.5	2,000	1,235	12	40	28	937	--	--	--
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	--	--	--	>15,000	>15,000	--	--	--	>15,000	>15,000	641	--	--	8,157	--	--	--	952	--	--	--
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	402	--	1,021	1,850	0	--	--	6,280	2,150	1,172	--	13,772	--	--	--	--	992	--	--	--
06/05/19	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	574	--	--	776	1,083	--	--	--	4,210	1,143	10	--	3,420	--	--	--	--	420	7,260	2,000	721

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, 9C 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 system startup on 3/13/19.

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

TABLE 9C

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											
			RW-19	RW-20	RW-21	RW-22	RW-23	RW-24	RW-25	RW-26	RW-27	RW-28	RW-29	RW-30
			13 - 33	13 - 33	13 - 33	13 - 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	--	129	160	1,775	787	1,525	--	4,340	--	8,420	620	6,550
09/07/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	--	58	110	1,379	141	1,423	--	3,290	--	8,080	1,123	8,240
10/12/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	--	220	165	1,800	340	1,200	--	3,880	--	9,190	818	5,800
11/02/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	--	170	140	1,410	250	1,770	--	2,900	--	6,400	909	7,330
12/11/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	--	190	120	1,660	230	1,605	--	3,400	--	7,170	764	6,400
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	--	280	80	840	320	950	--	1,800	--	3,100	660	2,900
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	43	42	55	2,595	1,896	459	89	1,821	1,215	5,000	2,563	32
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	--	--	--	2,928	--	1,383	--	3,261	767	>15,000	1,341	--
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	--	--	--	2,558	475	1,320	--	3,182	699	>15,000	1,721	4,160
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	--	--	--	362	389	857	--	2,127	2,685	>15,001	2,979	4,373
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	--	124	--	316	214	4,400	--	1,613
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	--	--	--	569	--	--	--	--	--	--	172	--
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	--	--	--	493	13	85		246	80	3,960	223	1,326

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade											
			RW-31	RW-32	RW-33	RW-34	RW-39	RW-40	RW-41	RW-42	RW-48	RW-49	RW-50	RW-47
			13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33
08/09/17	1,2,3	HW-1, HW-5, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	7,165	820	1,230	--	--	--	--	--	--	--	--	--
09/07/17	2,3	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	3,400	715	836	--	--	--	--	--	--	--	--	--
10/12/17	2,3	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	5,200	955	900	--	--	--	--	--	--	--	--	--
11/02/17	2,3	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	4,300	1,060	620	--	--	--	--	--	--	--	--	--

TABLE 9C

Historical Summary of Field Vapor Readings - Southern Area Vertical Wells

DFSP, Norwalk

15306 Norwalk Blvd., Norwalk, CA

12/11/17	2,3	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	3,900	700	510	--	--	--	--	--	--	--	--	--
03/14/18	2,3,4	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	1,730	800	180	--	--	--	--	--	--	--	--	--
Date	**Notes**	**Vapor Extraction System(s) Wells On Line ***	**Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade**											
			RW-31	**RW-32**	**RW-33**	**RW-34**	**RW-39**	**RW-40**	**RW-41**	**RW-42**	**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
06/27/18	3,5	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	80	421	843	46	24	1,782	849	3,040	191	886	728	56
07/16/18	3,5	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	--	--	--	--	--	--	--	--	--	--	--	--
07/30/18	3,5	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	1,630	1,253	1,283	--	--	778	4,925	>15,000	3,968	672	1,008	692
08/29/18	3,5	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 -53	3,378	1,715	1,324	--	--	856	>15,000	>15,000	4,460	641	2,359	674
12/03/18	3,5	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	4,284	971	1,013	--	--	538	5,575	>15,000	--	596	61	309
03/28/19	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	3,764	1,013	975	--	--	1,116	>15,000	>15,000	>15,000	549	2,740	--
05/08/19	2,3,5	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	--	283	7	--	14	94	--	248	1,107	709	1,159	752
05/31/19	2,3,5	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	896	325	181	--	--	--	--	--	--	42	--	--
06/05/19	2,3,5	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	--	--	--	--	--	177	--	1,414	384	639	1,107	581

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 9D 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-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 system startup on 3/13/19.

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

TABLE 9D

Historical Summary of Field Vapor Readings - North-Central 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															
			RW-35	RW-36	RW-37	RW-38	RW-47	RW-48	RW-49	RW-50	TFR-5	TFR-7	TFR-9	TFR-10	TFR-11	TFR-13	TFR-16	TFR-19	TFR-30
			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	13 - 33	13 - 33	13 - 33	13 - 33
06/27/18	1,2	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	416	452	1,509	134	751	1,454	823	5,000	--	--	--	--	--	--	--	--	--
7/16/2018	1,2	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/30/2018	1,2	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	522.3	2,166	1,930	--	1,410	>15,000	2,951	4,937	--	--	--	--	--	--	--	--	--
08/30/18	1,2	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 -53	658	2,616	2,049	--	2,766	>15,000	4,918	7,013	--	--	--	--	--	--	--	--	--
12/03/18	1,2	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	532	1,507	1,123	--	1,712	3,644	3,316	4,642	--	--	--	--	--	--	--	--	--
03/28/19	1,2	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	399	961	715	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/03/19	1,2	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, -51, TFR-5, -7, -9, -10, -11, -13, -16, -30, -33, -35, -36, -37	--	--	--	--	--	--	--	--	120	3,290	1,457	71	9	3,950	556	15,540	7,520
06/05/19	1,2	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, -51, TFR-5, -7, -9, -10, -11, -13, -16, -30, -33, -35, -36, -37	--	--	--	--	--	--	--	--	--	3,260	1,890	--	--	7,530	203	22,980	9,990

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade															
			TFR-33	TFR-35	TFR-36	TFR-37	VEW-40	TF-18	RTF-18-E	RTF-18-NW	TFR-24	TFR-29	TFR-17	TFR-18	TFR-22	TFR-15	TFR-12		
			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	13 - 33	13 - 33		
08/29/18	1,2	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, TFR-5, -7, -9, -10, -11, -13, -16, -19, -30, -33, -35, -36, -37	--	--	--	--	>15,000	--	--	--	--	--	--	--	--	--	--	--	--
03/27/19	1,2	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, TFR-5, -7, -9, -10, -11, -13, -16, -19, -30, -33, -35, -36, -37	--	--	--	--	>15,000	--	--	--	--	--	--	--	--	--	--	--	--
04/03/19	1,2	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, -51, TFR-5, -7, -9, -10, -11, -13, -16, -30, -33, -35, -36, -37	17,360	5	6	4	--	--	--	--	--	--	--	--	--	--	--	--	--
06/05/18	1,2	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, -51, TFR-5, -7, -9, -10, -11, -13, -16, -30, -33, -35, -36, -37	13,510	--	--	--	--	6,960	9,150	4,060	32,760	13,650	16,230	19,200	32,760	2,450	1,020	--	--

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-35 through RW-38, and RW47 through RW-50 tied into thermal oxidizer VES during late June 2018 following installation per SGI's July 2018 *Well Installation Completion Report.*

TABLE 9D

Historical Summary of Field Vapor Readings - North-Central 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															
			RW-35	RW-36	RW-37	RW-38	RW-47	RW-48	RW-49	RW-50	TFR-5	TFR-7	TFR-9	TFR-10	TFR-11	TFR-13	TFR-16	TFR-19	TFR-30
			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	13 - 33	13 - 33	13 - 33	13 - 33

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

3 = New system startup on 3/13/19.

* = Carbon vapor extraction system and thermal oxidizer vapor extraction system.

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)
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
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**	**0.56**	**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			718	**240**	**1,000**	**2.30**	**7.2**	**0.88**	**3.30**	**0.14**	**0.60**	**0**	**1**	**0**	**2**	<0.55	<2.0
VEW-32	07/09/14	1		154	**132**	**540**	<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			191	**19**	**76**	<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			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)
VEW-33	07/09/14	1	8015M & 8260M	10	<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			22	**6.6**	**27**	<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			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	<0.23	<1.0	<0.55	<2.0
VEW-34	07/09/14	1		4.2	<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			8.0	<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			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	<0.23	<1.0	<0.55	<2.0
VEW-35	07/09/14	1		5.5	<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			28	<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			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	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	10/23/14			9.1	<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			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	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	10/23/14			151	**13**	**53**	<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			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	4		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	4		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

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.*

* = 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 - April

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)
04/01/19	*		449.4	14	240	78	15	5.5	13	--
04/02/19	*		456.2	14	240	78	15	5.5	13	--
04/03/19	*		462.9	14	240	78	15	5.5	13	--
04/04/19	*		469.6	14	240	78	15	5.5	13	--
04/05/19	*		476.4	14	240	78	15	5.5	13	--
04/06/19	*		483.1	14	240	78	15	5.5	13	--
04/07/19	*		489.8	14	240	78	15	5.5	13	--
04/08/19	*		496.6	14	240	78	15	5.5	13	--
04/09/19	*		503.3	14	240	78	15	5.5	13	--
04/10/19	*		510.0	14	240	78	15	5.5	13	--
04/11/19	*		516.8	14	240	78	15	5.5	13	--
04/12/19	*		523.5	14	240	78	15	5.5	13	--
04/13/19	*		530.2	14	240	78	15	5.5	13	--
04/14/19	*		537.0	14	240	78	15	5.5	13	--
04/15/19	*		543.7	14	240	78	15	5.5	13	--
04/16/19	*		550.4	14	240	78	15	5.5	13	--
04/17/19	*		557.2	14	240	78	15	5.5	13	--
04/18/19	Technician		563.9	10	245	104	10	6.5	8	100
04/19/19	*		587.2	10	245	104	10	6.5	8	100
04/20/19	*		610.4	10	245	104	10	6.5	8	100
04/21/19	*		633.7	10	245	104	10	6.5	8	100
04/22/19	*		657.0	10	245	104	10	6.5	8	100
04/23/19	*		680.2	10	245	104	10	6.5	8	100
04/24/19	Technician		703.5	12	230	78	12	6.5	10	75
04/25/19	*		706.6	12	230	78	12	6.5	10	75
04/26/19	*		709.7	12	230	78	12	6.5	10	75
04/27/19	*		712.8	12	230	78	12	6.5	10	75
04/28/19	*		715.9	12	230	78	12	6.5	10	75
04/29/19	*		719.0	12	230	78	12	6.5	10	75
04/30/19	*		722.1	12	230	78	12	6.5	10	75

Legend / Notes:

System operating under SCAQMD Various Locations Permit #G52288
Biosparge wells on line this month: BSP-25, BSP-26, BSP-28, BSP-29, BSP-30,BSP-21, BSP-22, BSP-23, BSP-24, BSP-27.

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 - May

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)
05/01/19	Technician		725.2	13	230	86	13	6.0	10	80
05/02/19	*		738.8	13	230	86	13	6	10	80
05/03/19	*		752.5	13	230	86	13	6	10	80
05/04/19	*		766.1	13	230	86	13	6	10	80
05/05/19	*		779.8	13	230	86	13	6	10	80
05/06/19	*		793.4	13	230	86	13	6	10	80
05/07/19	*		807.1	13	230	86	13	6	10	80
05/08/19	*		820.7	13	230	86	13	6	10	80
05/09/19	*		834.4	13	230	86	13	6	10	80
05/10/19	*		848.0	13	230	86	13	6	10	80
05/11/19	*		861.7	13	230	86	13	6	10	80
05/12/19	*		875.3	13	230	86	13	6	10	80
05/13/19	*		889.0	13	230	86	13	6	10	80
05/14/19	*		902.6	13	230	86	13	6	10	80
05/15/19	*		916.3	13	230	86	13	6	10	80
05/16/19	*		929.9	13	230	86	13	6	10	80
05/17/19	*		943.6	13	230	86	13	6	10	80
05/18/19	*		957.2	13	230	86	13	6	10	80
05/19/19	*		970.9	13	230	86	13	6	10	80
05/20/19	*		984.5	13	230	86	13	6	10	80
05/21/19	*		998.2	13	230	86	13	6	10	80
05/22/19	*		1011.8	13	230	86	13	6	10	80
05/23/19	*		1025.5	13	230	86	13	6	10	80
05/24/19	*		1039.1	13	230	86	13	6	10	80
05/25/19	*		1052.8	13	230	86	13	6	10	80
05/26/19	*		1066.4	13	230	86	13	6	10	80
05/27/19	*		1080.1	13	230	86	13	6	10	80
05/28/19	*		1093.7	13	230	86	13	6	10	80
05/29/19	*		1107.4	13	230	86	13	6	10	80
05/30/19	Technician		1121.0	12	245	98	12	11	11	90
05/31/19	*		1125.4	12	245	98	12	11	11	90

Legend / Notes:

System operating under SCAQMD Various Locations Permit #G52288
Biosparge wells on line this month: BSP-25, BSP-26, BSP-28, BSP-29, BSP-30,BSP-21, BSP-22, BSP-23, BSP-24, BSP-27.

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 - June

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)
06/01/19	*		1129.8	12	245	98	12	11	11	90
06/02/19	*		1134.2	12	245	98	12	11	11	90
06/03/19	*		1138.5	12	245	98	12	11	11	90
06/04/19	*		1142.9	12	245	98	12	11	11	90
06/05/19	Technician		1147.3	12	250	96	15	5.0	12	90
06/06/19	*		1160.3	12	250	96	15	5.0	12	90
06/07/19	*		1173.4	12	250	96	15	5.0	12	90
06/08/19	*		1186.4	12	250	96	15	5.0	12	90
06/09/19	*		1199.4	12	250	96	15	5.0	12	90
06/10/19	*		1212.4	12	250	96	15	5.0	12	90
06/11/19	*		1225.5	12	250	96	15	5.0	12	90
06/12/19	*		1238.5	12	250	96	15	5.0	12	90
06/13/19	*		1251.5	12	250	96	15	5.0	12	90
06/14/19	*		1264.5	12	250	96	15	5.0	12	90
06/15/19	*		1277.6	12	250	96	15	5.0	12	90
06/16/19	*		1290.6	12	250	96	15	5.0	12	90
06/17/19	*		1303.6	12	250	96	15	5.0	12	90
06/18/19	*		1316.7	12	250	96	15	5.0	12	90
06/19/19	*		1329.7	12	250	96	15	5.0	12	90
06/20/19	*		1342.7	12	250	96	15	5.0	12	90
06/21/19	*		1355.7	12	250	96	15	5.0	12	90
06/22/19	*		1368.8	12	250	96	15	5.0	12	90
06/23/19	*		1381.8	12	250	96	15	5.0	12	90
06/24/19	*		1394.8	12	250	96	15	5.0	12	90
06/25/19	*		1407.8	12	250	96	15	5.0	12	90
06/26/19	*		1420.9	12	250	96	15	5.0	12	90
06/27/19	*		1433.9	12	250	96	15	5.0	12	90
06/28/19	*		1446.9	12	250	96	15	5.0	12	90
06/29/19	*		1460.0	12	250	96	15	5.0	12	90
06/30/19	*		1473.0	12	250	96	15	5	12	90

Legend / Notes:

System operating under SCAQMD Various Locations Permit #G52288
Biosparge wells on line this month: BSP-25, BSP-26, BSP-28, BSP-29, BSP-30,BSP-21, BSP-22, BSP-23, BSP-24, BSP-27.

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

AMERICAN ANALYTICS

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

April 11, 2019

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

Re : DFSP Norwalk VES AQMD / 04-NDLA-013

A5333028 / 9D03010

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 04/03/19 17:34 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 Analytics.

Sincerely,

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: A5333028
Date Received: 04/03/19
Date Reported: 04/11/19

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
GRO in Vapor as Hexane					
Thermox Influent	9D03010-01	Vapor	5	04/03/19 10:04	04/03/19 17:34
Thermox Effluent	9D03010-02	Vapor	5	04/03/19 10:00	04/03/19 17:34
VOCs BTEX/MTBE Vapor GC/MS					
Thermox Influent	9D03010-01	Vapor	5	04/03/19 10:04	04/03/19 17:34
Thermox Effluent	9D03010-02	Vapor	5	04/03/19 10:00	04/03/19 17:34
VOCs Gasoline Range Organics Vapor					
Thermox Influent	9D03010-01	Vapor	5	04/03/19 10:04	04/03/19 17:34
Thermox Effluent	9D03010-02	Vapor	5	04/03/19 10:00	04/03/19 17:34

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333028
Project No:	04-NDLA-013	**Date Received:**	04/03/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	04/11/19
Matrix:	Vapor	**Sampled:**	04/03/19
Dilution:	1	**Prepared:**	04/04/19
Method:	VOCs BTEX/MTBE Vapor by GC/MS 8260M	**Analyzed:**	04/04/19

Thermox Influent

9D03010-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	**0.91**	ug/L	0.50	**0.28**	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	92.8 %	70-140
Toluene-d8	106 %	70-140

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333028
Project No:	04-NDLA-013	**Date Received:**	04/03/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	04/11/19
Matrix:	Vapor	**Sampled:**	04/03/19
Dilution:	0.5	**Prepared:**	04/04/19
Method:	VOCs BTEX/MTBE Vapor by GC/MS 8260M	**Analyzed:**	04/04/19

Thermox Effluent

9D03010-02 (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	107 %	70-140
Dibromofluoromethane	95.9 %	70-140
Toluene-d8	106 %	70-140

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333028
Project No:	04-NDLA-013	**Date Received:**	04/03/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	04/11/19
Matrix:	Vapor	**Sampled:**	04/03/19
Dilution:	1	**Prepared:**	04/04/19
Method:	Gasoline Range Organics in Vapor by GC/FID	**Analyzed:**	04/04/19

Thermox Influent

9D03010-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	**860**	ug/L	20	**210**	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)	**AA Project No:**	A5333028
Project No:	04-NDLA-013	**Date Received:**	04/03/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	04/11/19
Matrix:	Vapor	**Sampled:**	04/03/19
Dilution:	1	**Prepared:**	04/04/19
Method:	Gasoline Range Organics in Vapor by GC/FID	**Analyzed:**	04/04/19

Thermox Effluent

9D03010-02 (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	97.3 %	70-130

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333028
Project No:	04-NDLA-013	**Date Received:**	04/03/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	04/11/19
Method:	GRO in Vapor as Hexane	**Units:**	ppmv

Date Sampled:	04/03/19	04/03/19	
Date Prepared:	04/04/19	04/04/19	
Date Analyzed:	04/04/19	04/04/19	
AA ID No:	9D03010-01	9D03010-02	
Client ID No:	Thermox Influent	Thermox Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL
GRO in Vapor as Hexane (EPA 8015M)			
GRO as Hexane	**190**	<5.7	5.7

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: A5333028
Date Received: 04/03/19
Date Reported: 04/11/19

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										
*Batch B9D0404 - *** DEFAULT PREP ****										
Blank (B9D0404-BLK1)				Prepared & Analyzed: 04/04/19						
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	*53.7*		*ug/L*	*50*		*107*	*70-140*			
Surrogate: Dibromofluoromethane	*52.0*		*ug/L*	*50*		*104*	*70-140*			
Surrogate: Toluene-d8	*52.9*		*ug/L*	*50*		*106*	*70-140*			
LCS (B9D0404-BS1)				Prepared & Analyzed: 04/04/19						
Benzene	**19.9**	0.50	ug/L	20		99.4	75-125			
Ethylbenzene	**19.7**	0.50	ug/L	20		98.7	75-125			
Methyl-tert-Butyl Ether (MTBE)	**39.9**	2.0	ug/L	40		99.7	75-125			
Toluene	**19.1**	0.50	ug/L	20		95.6	75-125			
o-Xylene	**19.8**	0.50	ug/L	20		99.0	75-125			
m,p-Xylenes	**40.8**	1.0	ug/L	40		102	75-125			
Surrogate: 4-Bromofluorobenzene	*55.0*		*ug/L*	*50*		*110*	*70-140*			
Surrogate: Dibromofluoromethane	*49.0*		*ug/L*	*50*		*98.0*	*70-140*			
Surrogate: Toluene-d8	*53.1*		*ug/L*	*50*		*106*	*70-140*			
LCS Dup (B9D0404-BSD1)				Prepared & Analyzed: 04/04/19						
Benzene	**20.6**	0.50	ug/L	20		103	75-125	3.70	30	
Ethylbenzene	**19.9**	0.50	ug/L	20		99.4	75-125	0.707	30	
Methyl-tert-Butyl Ether (MTBE)	**41.3**	2.0	ug/L	40		103	75-125	3.50	30	
Toluene	**20.0**	0.50	ug/L	20		100	75-125	4.50	30	
o-Xylene	**20.0**	0.50	ug/L	20		99.8	75-125	0.855	30	
m,p-Xylenes	**41.4**	1.0	ug/L	40		104	75-125	1.61	30	
Surrogate: 4-Bromofluorobenzene	*54.6*		*ug/L*	*50*		*109*	*70-140*			
Surrogate: Dibromofluoromethane	*49.9*		*ug/L*	*50*		*99.8*	*70-140*			
Surrogate: Toluene-d8	*53.1*		*ug/L*	*50*		*106*	*70-140*			
Duplicate (B9D0404-DUP1)				**Source: 9D03011-02**	Prepared & Analyzed: 04/04/19					

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: A5333028
Date Received: 04/03/19
Date Reported: 04/11/19

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										
*Batch B9D0404 - *** DEFAULT PREP ****										
Duplicate (B9D0404-DUP1) Continued			**Source: 9D03011-02**	Prepared & Analyzed: 04/04/19						
Benzene	**<0.50**	0.50	ug/L						30	
Ethylbenzene	**<0.50**	0.50	ug/L						30	
Methyl-tert-Butyl Ether (MTBE)	**<2.0**	2.0	ug/L						30	
Toluene	**<0.50**	0.50	ug/L						30	
o-Xylene	**<0.50**	0.50	ug/L						30	
m,p-Xylenes	**<1.0**	1.0	ug/L						30	
Surrogate: 4-Bromofluorobenzene	*54.0*		*ug/L*	*50*		*108*	*70-140*			
Surrogate: Dibromofluoromethane	*49.8*		*ug/L*	*50*		*99.7*	*70-140*			
Surrogate: Toluene-d8	*52.7*		*ug/L*	*50*		*105*	*70-140*			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
*Batch B9D0414 - *** DEFAULT PREP ****										
Blank (B9D0414-BLK1)				Prepared & Analyzed: 04/04/19						
Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	*46.2*		*ug/L*	*50*		*92.4*	*70-130*			
LCS (B9D0414-BS1)				Prepared & Analyzed: 04/04/19						
Gasoline Range Organics (GRO)	**413**	20	ug/L	500		82.5	75-125			
Surrogate: a,a,a-Trifluorotoluene	*49.1*		*ug/L*	*50*		*98.2*	*70-130*			
LCS Dup (B9D0414-BSD1)				Prepared & Analyzed: 04/04/19						
Gasoline Range Organics (GRO)	**442**	20	ug/L	500		88.3	75-125	6.79	30	
Surrogate: a,a,a-Trifluorotoluene	*52.0*		*ug/L*	*50*		*104*	*70-130*			
Duplicate (B9D0414-DUP1)			**Source: 9D03011-01**	Prepared & Analyzed: 04/04/19						
Gasoline Range Organics (GRO)	**298**	20	ug/L		299			0.235	30	
Surrogate: a,a,a-Trifluorotoluene	*47.3*		*ug/L*	*50*		*94.5*	*70-130*			
GRO in Vapor as Hexane - Quality Control										
*Batch B9D0414 - *** DEFAULT PREP ****										
Blank (B9D0414-BLK1)				Prepared & Analyzed: 04/04/19						
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B9D0414-DUP1)			**Source: 9D03011-01**	Prepared & Analyzed: 04/04/19						

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: A5333028
Date Received: 04/03/19
Date Reported: 04/11/19

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
*Batch B9D0414 - *** DEFAULT PREP ****										
Duplicate (B9D0414-DUP1) Continued	**Source: 9D03011-01**		Prepared & Analyzed: 04/04/19							
GRO as Hexane	**64.7**	5.7	ppmv		65.1			0.606	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333028
Project No:	04-NDLA-013	**Date Received:**	04/03/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	04/11/19

Special Notes

Viorel Vasile
Operations Manager

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

17825

Page 1 of 1

Client: The Source Group, Inc.	**Project Name / No.:** DFSP - Norwalk / 091-NDLA	**Sampler's Name:** Glenn Androski	
Project Manager: Neil Irish	**Site Address:** 15306 Norwalk Blvd	**Sampler's Signature:** Glenn Androski	
Phone: 562-597-1055	**City:** Norwalk	**P.O. No.:**	
Fax: 569-597-1070	**State & Zip:** CA 90650	**Quote No.:**	

TAT Turnaround Codes **

- ① = Same Day Rush
- ② = 24 Hour Rush
- ③ = 48 Hour Rush
- ④ = 72 Hour Rush
- ⑤ = 5 Day Rush
- X = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Please enter the TAT Turnaround Codes ** below

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	Total VOCs Gas 8015	Total VOCs Hexane 8015	BTEX/MTBE 8260B								Special Instructions
Thermox Influent	9003010 - 01	4-3-19	1004	Air	1	✓	✓	✓								VOC's reported as
Thermox Effluent	-02	"	1000	Air	1	✓	✓	✓								TPH and Hexane
																Detection limit of 75
																ppm for Hexane
																and 0.15 ppm for
																Benzene

PRIORITY ✓ SH
Rush Hrs
Date 4/4/19 Time 0700 Sign

'19 APR 3 5:54PM

A5333028/9003010

Relinquished by	Date	Time	Received by
Glenn Androski	4-3-19	12:00	[signature]
[signature]	4-3-19	17:34	[signature]

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.

AMERICAN ANALYTICS

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

April 11, 2019

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

Re : DFSP Norwalk VES AQMD / 04-NDLA-013

A5333029 / 9D03011

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 04/03/19 17:34 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 Analytics.

Sincerely,

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: A5333029
Date Received: 04/03/19
Date Reported: 04/11/19

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
GRO in Vapor as Hexane					
VES Influent	9D03011-01	Vapor	5	04/03/19 08:09	04/03/19 17:34
VES Effluent	9D03011-02	Vapor	5	04/03/19 08:04	04/03/19 17:34
VOCs BTEX/MTBE Vapor GC/MS					
VES Influent	9D03011-01	Vapor	5	04/03/19 08:09	04/03/19 17:34
VES Effluent	9D03011-02	Vapor	5	04/03/19 08:04	04/03/19 17:34
VOCs Gasoline Range Organics Vapor					
VES Influent	9D03011-01	Vapor	5	04/03/19 08:09	04/03/19 17:34
VES Effluent	9D03011-02	Vapor	5	04/03/19 08:04	04/03/19 17:34

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333029
Project No:	04-NDLA-013	**Date Received:**	04/03/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	04/11/19
Matrix:	Vapor	**Sampled:**	04/03/19
Dilution:	1	**Prepared:**	04/04/19
Method:	VOCs BTEX/MTBE Vapor by GC/MS 8260M	**Analyzed:**	04/04/19

VES Influent

9D03011-01 (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	105 %	70-140
Dibromofluoromethane	97.1 %	70-140
Toluene-d8	107 %	70-140

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333029
Project No:	04-NDLA-013	**Date Received:**	04/03/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	04/11/19
Matrix:	Vapor	**Sampled:**	04/03/19
Dilution:	0.5	**Prepared:**	04/04/19
Method:	VOCs BTEX/MTBE Vapor by GC/MS 8260M	**Analyzed:**	04/04/19

VES Effluent

9D03011-02 (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	108 %	70-140
Dibromofluoromethane	95.8 %	70-140
Toluene-d8	107 %	70-140

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333029
Project No:	04-NDLA-013	**Date Received:**	04/03/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	04/11/19
Matrix:	Vapor	**Sampled:**	04/03/19
Dilution:	1	**Prepared:**	04/04/19
Method:	Gasoline Range Organics in Vapor by GC/FID	**Analyzed:**	04/04/19

VES Influent

9D03011-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	**300**	ug/L	20	**73**	ppmv	4.9

Surrogates	**%REC**	**%REC Limits**
a,a,a-Trifluorotoluene	97.7 %	70-130

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333029
Project No:	04-NDLA-013	**Date Received:**	04/03/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	04/11/19
Matrix:	Vapor	**Sampled:**	04/03/19
Dilution:	1	**Prepared:**	04/04/19
Method:	Gasoline Range Organics in Vapor by GC/FID	**Analyzed:**	04/04/19

VES Effluent

9D03011-02 (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	95.7 %	70-130

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333029
Project No:	04-NDLA-013	**Date Received:**	04/03/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	04/11/19
Method:	GRO in Vapor as Hexane	**Units:**	ppmv

Date Sampled:	04/03/19	04/03/19	
Date Prepared:	04/04/19	04/04/19	
Date Analyzed:	04/04/19	04/04/19	
AA ID No:	9D03011-01	9D03011-02	
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	**65**	<5.7	5.7

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: A5333029
Date Received: 04/03/19
Date Reported: 04/11/19

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										
*Batch B9D0404 - *** DEFAULT PREP ****										
Blank (B9D0404-BLK1)				Prepared & Analyzed: 04/04/19						
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	*53.7*		*ug/L*	*50*		*107*	*70-140*			
Surrogate: Dibromofluoromethane	*52.0*		*ug/L*	*50*		*104*	*70-140*			
Surrogate: Toluene-d8	*52.9*		*ug/L*	*50*		*106*	*70-140*			
LCS (B9D0404-BS1)				Prepared & Analyzed: 04/04/19						
Benzene	**19.9**	0.50	ug/L	20		99.4	75-125			
Ethylbenzene	**19.7**	0.50	ug/L	20		98.7	75-125			
Methyl-tert-Butyl Ether (MTBE)	**39.9**	2.0	ug/L	40		99.7	75-125			
Toluene	**19.1**	0.50	ug/L	20		95.6	75-125			
o-Xylene	**19.8**	0.50	ug/L	20		99.0	75-125			
m,p-Xylenes	**40.8**	1.0	ug/L	40		102	75-125			
Surrogate: 4-Bromofluorobenzene	*55.0*		*ug/L*	*50*		*110*	*70-140*			
Surrogate: Dibromofluoromethane	*49.0*		*ug/L*	*50*		*98.0*	*70-140*			
Surrogate: Toluene-d8	*53.1*		*ug/L*	*50*		*106*	*70-140*			
LCS Dup (B9D0404-BSD1)				Prepared & Analyzed: 04/04/19						
Benzene	**20.6**	0.50	ug/L	20		103	75-125	3.70	30	
Ethylbenzene	**19.9**	0.50	ug/L	20		99.4	75-125	0.707	30	
Methyl-tert-Butyl Ether (MTBE)	**41.3**	2.0	ug/L	40		103	75-125	3.50	30	
Toluene	**20.0**	0.50	ug/L	20		100	75-125	4.50	30	
o-Xylene	**20.0**	0.50	ug/L	20		99.8	75-125	0.855	30	
m,p-Xylenes	**41.4**	1.0	ug/L	40		104	75-125	1.61	30	
Surrogate: 4-Bromofluorobenzene	*54.6*		*ug/L*	*50*		*109*	*70-140*			
Surrogate: Dibromofluoromethane	*49.9*		*ug/L*	*50*		*99.8*	*70-140*			
Surrogate: Toluene-d8	*53.1*		*ug/L*	*50*		*106*	*70-140*			
Duplicate (B9D0404-DUP1)				**Source: 9D03011-02** Prepared & Analyzed: 04/04/19						

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: A5333029
Date Received: 04/03/19
Date Reported: 04/11/19

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										
*Batch B9D0404 - *** DEFAULT PREP ****										
Duplicate (B9D0404-DUP1) Continued			**Source: 9D03011-02**	Prepared & Analyzed: 04/04/19						
Benzene	**<0.50**	0.50	ug/L		<0.25				30	
Ethylbenzene	**<0.50**	0.50	ug/L		<0.25				30	
Methyl-tert-Butyl Ether (MTBE)	**<2.0**	2.0	ug/L		<1.0				30	
Toluene	**<0.50**	0.50	ug/L		<0.25				30	
o-Xylene	**<0.50**	0.50	ug/L		<0.25				30	
m,p-Xylenes	**<1.0**	1.0	ug/L		<0.50				30	
Surrogate: 4-Bromofluorobenzene	*54.0*		*ug/L*	*50*		*108*	*70-140*			
Surrogate: Dibromofluoromethane	*49.8*		*ug/L*	*50*		*99.7*	*70-140*			
Surrogate: Toluene-d8	*52.7*		*ug/L*	*50*		*105*	*70-140*			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
*Batch B9D0414 - *** DEFAULT PREP ****										
Blank (B9D0414-BLK1)				Prepared & Analyzed: 04/04/19						
Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	*46.2*		*ug/L*	*50*		*92.4*	*70-130*			
LCS (B9D0414-BS1)				Prepared & Analyzed: 04/04/19						
Gasoline Range Organics (GRO)	**413**	20	ug/L	500		82.5	75-125			
Surrogate: a,a,a-Trifluorotoluene	*49.1*		*ug/L*	*50*		*98.2*	*70-130*			
LCS Dup (B9D0414-BSD1)				Prepared & Analyzed: 04/04/19						
Gasoline Range Organics (GRO)	**442**	20	ug/L	500		88.3	75-125	6.79	30	
Surrogate: a,a,a-Trifluorotoluene	*52.0*		*ug/L*	*50*		*104*	*70-130*			
Duplicate (B9D0414-DUP1)			**Source: 9D03011-01**	Prepared & Analyzed: 04/04/19						
Gasoline Range Organics (GRO)	**298**	20	ug/L		299			0.235	30	
Surrogate: a,a,a-Trifluorotoluene	*47.3*		*ug/L*	*50*		*94.5*	*70-130*			
GRO in Vapor as Hexane - Quality Control										
*Batch B9D0414 - *** DEFAULT PREP ****										
Blank (B9D0414-BLK1)				Prepared & Analyzed: 04/04/19						
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B9D0414-DUP1)			**Source: 9D03011-01**	Prepared & Analyzed: 04/04/19						

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: A5333029
Date Received: 04/03/19
Date Reported: 04/11/19

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
*Batch B9D0414 - *** DEFAULT PREP ****										
Duplicate (B9D0414-DUP1) Continued	**Source: 9D03011-01**		Prepared & Analyzed: 04/04/19							
GRO as Hexane	**64.7**	5.7	ppmv		65.1			0.606	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333029
Project No:	04-NDLA-013	**Date Received:**	04/03/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	04/11/19

Special Notes

Viorel Vasile
Operations Manager

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

17826

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

Client:	APEX/The Source Group, Inc.	**Project Name / No.:**	DFSP - Norwalk / 091-NDLA	**Sampler's Name:**	Glenn Androsko
Project Manager:	Neil Irish	**Site Address:**	15306 Norwalk Blvd	**Sampler's Signature:**	Glenn Androsko
Phone:	562-597-1055	**City:**	Norwalk	**P.O. No.:**	
Fax:	569-597-1070	**State & Zip:**	CA 90650	**Quote No.:**	

TAT Turnaround Codes **

① = Same Day Rush
② = 24 Hour Rush
③ = 48 Hour Rush
④ = 72 Hour Rush
⑤ = 5 Day Rush
X = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Please enter the TAT Turnaround Codes ** below

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	Total VOCs Gas 8015	Total VOCs Hexane 8015	BTEX/MTBE 8260B								Special Instructions
VES Influent	9D03011 -01	4-3-19	0809	Air	1	✓	✓	✓								
VES Effluent	-02	"	0804	Air	1	✓	✓	✓								

PRIORITY SH ✓ Rush Hrs Date 4/4/19 Time 0700 Sign

'19 APR 3 ... 34

A5333029/9D03011

Relinquished by	Date	Time	Received by
Glenn Androsko	4-3-19	12:00	[signature]
[signature]	4-3-19	17:54	[signature]

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.

AMERICAN ANALYTICS

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

May 08, 2019

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

Re : DFSP Norwalk VES AQMD / 04-NDLA-013

A5333037 / 9D22013

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 04/22/19 16:21 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 Analytics.

Sincerely,

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: A5333037
Date Received: 04/22/19
Date Reported: 05/08/19

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
GRO in Vapor as Hexane					
Thermox Influent	9D22013-01	Vapor	5	04/22/19 09:22	04/22/19 16:21
Thermox Effluent	9D22013-02	Vapor	5	04/22/19 09:10	04/22/19 16:21
VOCs BTEX/MTBE Vapor GC/MS					
Thermox Influent	9D22013-01	Vapor	5	04/22/19 09:22	04/22/19 16:21
Thermox Effluent	9D22013-02	Vapor	5	04/22/19 09:10	04/22/19 16:21
VOCs Gasoline Range Organics Vapor					
Thermox Influent	9D22013-01	Vapor	5	04/22/19 09:22	04/22/19 16:21
Thermox Effluent	9D22013-02	Vapor	5	04/22/19 09:10	04/22/19 16:21

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333037
Project No:	04-NDLA-013	**Date Received:**	04/22/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	05/08/19
Matrix:	Vapor	**Sampled:**	04/22/19
Dilution:	1	**Prepared:**	04/23/19
Method:	VOCs BTEX/MTBE Vapor by GC/MS 8260M	**Analyzed:**	04/23/19

Thermox Influent

9D22013-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	**9.2**	ug/L	0.50	**2.9**	ppmv	0.16
Ethylbenzene	**1.2**	ug/L	0.50	**0.28**	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	**0.58**	ug/L	0.50	**0.13**	ppmv	0.12
m,p-Xylenes	**1.8**	ug/L	1.0	**0.41**	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	105 %	70-140
Dibromofluoromethane	92.6 %	70-140
Toluene-d8	109 %	70-140

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333037
Project No:	04-NDLA-013	**Date Received:**	04/22/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	05/08/19
Matrix:	Vapor	**Sampled:**	04/22/19
Dilution:	0.5	**Prepared:**	04/23/19
Method:	VOCs BTEX/MTBE Vapor by GC/MS 8260M	**Analyzed:**	04/23/19

Thermox Effluent

9D22013-02 (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	109 %	70-140
Dibromofluoromethane	89.7 %	70-140
Toluene-d8	110 %	70-140

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333037
Project No:	04-NDLA-013	**Date Received:**	04/22/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	05/08/19
Matrix:	Vapor	**Sampled:**	04/22/19
Dilution:	1	**Prepared:**	04/23/19
Method:	Gasoline Range Organics in Vapor by GC/FID	**Analyzed:**	04/23/19

Thermox Influent

9D22013-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	**2700**	ug/L	20	**660**	ppmv	4.9

Surrogates	%REC	%REC Limits
a,a,a-Trifluorotoluene	116 %	70-130

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333037
Project No:	04-NDLA-013	**Date Received:**	04/22/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	05/08/19
Matrix:	Vapor	**Sampled:**	04/22/19
Dilution:	1	**Prepared:**	04/23/19
Method:	Gasoline Range Organics in Vapor by GC/FID	**Analyzed:**	04/23/19

Thermox Effluent

9D22013-02 (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	95.6 %	70-130

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333037
Project No:	04-NDLA-013	**Date Received:**	04/22/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	05/08/19
Method:	GRO in Vapor as Hexane	**Units:**	ppmv

Date Sampled:	04/22/19	04/22/19	
Date Prepared:	04/23/19	04/23/19	
Date Analyzed:	04/23/19	04/23/19	
AA ID No:	9D22013-01	9D22013-02	
Client ID No:	Thermox Influent	Thermox Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL
GRO in Vapor as Hexane (EPA 8015M)			
GRO as Hexane	**600**	<5.7	5.7

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: A5333037
Date Received: 04/22/19
Date Reported: 05/08/19

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										
*Batch B9D2316 - *** DEFAULT PREP ****										
Blank (B9D2316-BLK1)				Prepared & Analyzed: 04/23/19						
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	*54.1*		*ug/L*	*50*		*108*	*70-140*			
Surrogate: Dibromofluoromethane	*47.5*		*ug/L*	*50*		*94.9*	*70-140*			
Surrogate: Toluene-d8	*53.8*		*ug/L*	*50*		*108*	*70-140*			
LCS (B9D2316-BS1)				Prepared & Analyzed: 04/23/19						
Benzene	**23.5**	0.50	ug/L	20		118	75-125			
Ethylbenzene	**20.7**	0.50	ug/L	20		103	75-125			
Methyl-tert-Butyl Ether (MTBE)	**50.6**	2.0	ug/L	40		127	75-125			**
Toluene	**20.7**	0.50	ug/L	20		104	75-125			
o-Xylene	**20.8**	0.50	ug/L	20		104	75-125			
m,p-Xylenes	**42.4**	1.0	ug/L	40		106	75-125			
Surrogate: 4-Bromofluorobenzene	*55.3*		*ug/L*	*50*		*111*	*70-140*			
Surrogate: Dibromofluoromethane	*46.6*		*ug/L*	*50*		*93.1*	*70-140*			
Surrogate: Toluene-d8	*53.3*		*ug/L*	*50*		*107*	*70-140*			
LCS Dup (B9D2316-BSD1)				Prepared & Analyzed: 04/23/19						
Benzene	**23.1**	0.50	ug/L	20		116	75-125	1.76	30	
Ethylbenzene	**20.2**	0.50	ug/L	20		101	75-125	2.30	30	
Methyl-tert-Butyl Ether (MTBE)	**47.8**	2.0	ug/L	40		120	75-125	5.73	30	
Toluene	**20.0**	0.50	ug/L	20		100	75-125	3.68	30	
o-Xylene	**20.3**	0.50	ug/L	20		102	75-125	2.43	30	
m,p-Xylenes	**41.4**	1.0	ug/L	40		104	75-125	2.24	30	
Surrogate: 4-Bromofluorobenzene	*56.4*		*ug/L*	*50*		*113*	*70-140*			
Surrogate: Dibromofluoromethane	*53.0*		*ug/L*	*50*		*106*	*70-140*			
Surrogate: Toluene-d8	*52.9*		*ug/L*	*50*		*106*	*70-140*			
Duplicate (B9D2316-DUP1)				**Source: 9D22013-01** Prepared & Analyzed: 04/23/19						

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: A5333037
Date Received: 04/22/19
Date Reported: 05/08/19

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										
*Batch B9D2316 - *** DEFAULT PREP ****										
Duplicate (B9D2316-DUP1) Continued			**Source: 9D22013-01**	Prepared & Analyzed: 04/23/19						
Benzene	**10.4**	0.50	ug/L		9.17			12.3	30	
Ethylbenzene	**1.33**	0.50	ug/L		1.19			11.1	30	
Methyl-tert-Butyl Ether (MTBE)	**<2.0**	2.0	ug/L		<2.0				30	
Toluene	**<0.50**	0.50	ug/L		<0.50				30	
o-Xylene	**0.680**	0.50	ug/L		0.580			15.9	30	
m,p-Xylenes	**1.91**	1.0	ug/L		1.76			8.17	30	
Surrogate: 4-Bromofluorobenzene	*52.8*		*ug/L*	*50*		*106*	*70-140*			
Surrogate: Dibromofluoromethane	*45.6*		*ug/L*	*50*		*91.3*	*70-140*			
Surrogate: Toluene-d8	*53.9*		*ug/L*	*50*		*108*	*70-140*			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
*Batch B9D2327 - *** DEFAULT PREP ****										
Blank (B9D2327-BLK1)				Prepared & Analyzed: 04/23/19						
Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	*47.6*		*ug/L*	*50*		*95.3*	*70-130*			
LCS (B9D2327-BS1)				Prepared & Analyzed: 04/23/19						
Gasoline Range Organics (GRO)	**435**	20	ug/L	500		87.0	75-125			
Surrogate: a,a,a-Trifluorotoluene	*53.3*		*ug/L*	*50*		*107*	*70-130*			
LCS Dup (B9D2327-BSD1)				Prepared & Analyzed: 04/23/19						
Gasoline Range Organics (GRO)	**427**	20	ug/L	500		85.3	75-125	2.00	30	
Surrogate: a,a,a-Trifluorotoluene	*52.3*		*ug/L*	*50*		*105*	*70-130*			
Duplicate (B9D2327-DUP1)			**Source: 9D22013-01**	Prepared & Analyzed: 04/23/19						
Gasoline Range Organics (GRO)	**2770**	20	ug/L		2730			1.36	30	
Surrogate: a,a,a-Trifluorotoluene	*58.0*		*ug/L*	*50*		*116*	*70-130*			
GRO in Vapor as Hexane - Quality Control										
*Batch B9D2327 - *** DEFAULT PREP ****										
Blank (B9D2327-BLK1)				Prepared & Analyzed: 04/23/19						
GRO as Hexane	<3.2	3.2	ppmv							
Duplicate (B9D2327-DUP1)			**Source: 9D22013-01**	Prepared & Analyzed: 04/23/19						

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: A5333037
Date Received: 04/22/19
Date Reported: 05/08/19

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
*Batch B9D2327 - *** DEFAULT PREP ****										
Duplicate (B9D2327-DUP1) Continued	**Source: 9D22013-01**		Prepared & Analyzed: 04/23/19							
GRO as Hexane	**605**	5.7	ppmv		596			1.34	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333037
Project No:	04-NDLA-013	**Date Received:**	04/22/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	05/08/19

Special Notes

[1] = ****** : Exceeds upper control limit.

Viorel Vasile
Operations Manager

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

17955

9765 ETON AVE., CHATSWORTH, CA 91311
Tel: 818-998-5547 FAX: 818-998-7258

Client: The Source Group, Inc.	**Project Name / No.:** DFSP - Norwalk / 091-NDLA	**Sampler's Name:** Glenn Androsko	
Project Manager: Neil Irish	**Site Address:** 15306 Norwalk Blvd	**Sampler's Signature:** Glenn Androsko	
Phone: 562-597-1055	**City:** Norwalk	**P.O. No.:**	
Fax: 569-597-1070	**State & Zip:** CA 90650	**Quote No.:**	

TAT Turnaround Codes **

1 = Same Day Rush
2 = 24 Hour Rush
3 = 48 Hour Rush
4 = 72 Hour Rush
5 = 5 Day Rush
X = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name) — Please enter the TAT Turnaround Codes ** below

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	Total VOCs Gas 8015	Total VOCs Hexane 8015	BTEX//MTBE 8260B								Special Instructions
Thermox Influent	9022013-01	4-22-19	0922	Air	1	✓	✓	✓								VOC's reported as
Thermox Effluent	-02	4-22-19	0910	Air	1	✓	✓	✓								TPH and Hexane
																Detection limit of 75
																ppm for Hexane
																and 0.15 ppm for
																Benzene

PRIORITY ✓ SH
Rush Hrs
Date 4/23/19 Time 0600 Sign

19 APR 22

Relinquished by	Date	Time	Received by
Glenn Androsko	4-22-19	1155	[signature]
[signature]	4-22-19	16:21	[signature]

AS333037/9022013

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.

AMERICAN ANALYTICS

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

May 17, 2019

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

Re : DFSP Norwalk VES AQMD / 04-NDLA-013

A5333047 / 9E06010

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 05/06/19 15:07 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 Analytics.

Sincerely,

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: A5333047
Date Received: 05/06/19
Date Reported: 05/17/19

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
GRO in Vapor as Hexane					
Thermox Influent	9E06010-01	Vapor	5	05/06/19 09:52	05/06/19 15:07
Thermox Effluent	9E06010-02	Vapor	5	05/06/19 09:45	05/06/19 15:07
VOCs BTEX/MTBE Vapor GC/MS					
Thermox Influent	9E06010-01	Vapor	5	05/06/19 09:52	05/06/19 15:07
Thermox Effluent	9E06010-02	Vapor	5	05/06/19 09:45	05/06/19 15:07
VOCs Gasoline Range Organics Vapor					
Thermox Influent	9E06010-01	Vapor	5	05/06/19 09:52	05/06/19 15:07
Thermox Effluent	9E06010-02	Vapor	5	05/06/19 09:45	05/06/19 15:07

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333047
Project No:	04-NDLA-013	**Date Received:**	05/06/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	05/17/19
Matrix:	Vapor	**Sampled:**	05/06/19
Dilution:	1	**Prepared:**	05/07/19
Method:	VOCs BTEX/MTBE Vapor by GC/MS 8260M	**Analyzed:**	05/07/19

Thermox Influent

9E06010-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	**12**	ug/L	0.50	**3.8**	ppmv	0.16
Ethylbenzene	**2.0**	ug/L	0.50	**0.46**	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	**2.8**	ug/L	1.0	**0.64**	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	104 %	70-140
Dibromofluoromethane	118 %	70-140
Toluene-d8	108 %	70-140

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333047
Project No:	04-NDLA-013	**Date Received:**	05/06/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	05/17/19
Matrix:	Vapor	**Sampled:**	05/06/19
Dilution:	0.5	**Prepared:**	05/07/19
Method:	VOCs BTEX/MTBE Vapor by GC/MS 8260M	**Analyzed:**	05/07/19

Thermox Effluent

9E06010-02 (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	109 %	70-140
Dibromofluoromethane	114 %	70-140
Toluene-d8	107 %	70-140

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333047
Project No:	04-NDLA-013	**Date Received:**	05/06/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	05/17/19
Matrix:	Vapor	**Sampled:**	05/06/19
Dilution:	1	**Prepared:**	05/07/19
Method:	Gasoline Range Organics in Vapor by GC/FID	**Analyzed:**	05/07/19

Thermox Influent

9E06010-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	**2900**	ug/L	20	**710**	ppmv	4.9

Surrogates	%REC	%REC Limits
a,a,a-Trifluorotoluene	115 %	70-130

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333047
Project No:	04-NDLA-013	**Date Received:**	05/06/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	05/17/19
Matrix:	Vapor	**Sampled:**	05/06/19
Dilution:	1	**Prepared:**	05/07/19
Method:	Gasoline Range Organics in Vapor by GC/FID	**Analyzed:**	05/07/19

Thermox Effluent

9E06010-02 (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	91.8 %	70-130

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333047
Project No:	04-NDLA-013	**Date Received:**	05/06/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	05/17/19
Method:	GRO in Vapor as Hexane	**Units:**	ppmv

Date Sampled:	05/06/19	05/06/19	
Date Prepared:	05/07/19	05/07/19	
Date Analyzed:	05/07/19	05/07/19	
AA ID No:	9E06010-01	9E06010-02	
Client ID No:	Thermox Influent	Thermox Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL
GRO in Vapor as Hexane (EPA 8015M)			
GRO as Hexane	**630**	<5.7	5.7

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: A5333047
Date Received: 05/06/19
Date Reported: 05/17/19

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										
*Batch B9E0713 - *** DEFAULT PREP ****										
Blank (B9E0713-BLK1)				Prepared & Analyzed: 05/07/19						
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	*54.6*		*ug/L*	*50*		*109*	*70-140*			
Surrogate: Dibromofluoromethane	*59.0*		*ug/L*	*50*		*118*	*70-140*			
Surrogate: Toluene-d8	*53.6*		*ug/L*	*50*		*107*	*70-140*			
LCS (B9E0713-BS1)				Prepared & Analyzed: 05/07/19						
Benzene	**21.0**	0.50	ug/L	20		105	75-125			
Ethylbenzene	**20.5**	0.50	ug/L	20		102	75-125			
Methyl-tert-Butyl Ether (MTBE)	**46.1**	2.0	ug/L	40		115	75-125			
Toluene	**19.6**	0.50	ug/L	20		97.9	75-125			
o-Xylene	**21.6**	0.50	ug/L	20		108	75-125			
m,p-Xylenes	**43.5**	1.0	ug/L	40		109	75-125			
Surrogate: 4-Bromofluorobenzene	*54.1*		*ug/L*	*50*		*108*	*70-140*			
Surrogate: Dibromofluoromethane	*56.6*		*ug/L*	*50*		*113*	*70-140*			
Surrogate: Toluene-d8	*52.7*		*ug/L*	*50*		*105*	*70-140*			
LCS Dup (B9E0713-BSD1)				Prepared: 05/07/19 Analyzed: 05/08/19						
Benzene	**22.2**	0.50	ug/L	20		111	75-125	5.65	30	
Ethylbenzene	**19.9**	0.50	ug/L	20		99.7	75-125	2.57	30	
Methyl-tert-Butyl Ether (MTBE)	**47.3**	2.0	ug/L	40		118	75-125	2.57	30	
Toluene	**19.2**	0.50	ug/L	20		95.9	75-125	2.06	30	
o-Xylene	**20.1**	0.50	ug/L	20		101	75-125	6.81	30	
m,p-Xylenes	**41.2**	1.0	ug/L	40		103	75-125	5.55	30	
Surrogate: 4-Bromofluorobenzene	*55.8*		*ug/L*	*50*		*112*	*70-140*			
Surrogate: Dibromofluoromethane	*56.4*		*ug/L*	*50*		*113*	*70-140*			
Surrogate: Toluene-d8	*52.7*		*ug/L*	*50*		*105*	*70-140*			
Duplicate (B9E0713-DUP1)				**Source: 9E06010-01** Prepared & Analyzed: 05/07/19						

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: A5333047
Date Received: 05/06/19
Date Reported: 05/17/19

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										
*Batch B9E0713 - *** DEFAULT PREP ****										
Duplicate (B9E0713-DUP1) Continued			**Source: 9E06010-01**	Prepared & Analyzed: 05/07/19						
Benzene	**8.79**	0.50	ug/L		12.2			32.6	30	
Ethylbenzene	**1.58**	0.50	ug/L		2.01			24.0	30	
Methyl-tert-Butyl Ether (MTBE)	**<2.0**	2.0	ug/L		<2.0				30	
Toluene	**<0.50**	0.50	ug/L		0.420				30	
o-Xylene	**<0.50**	0.50	ug/L		0.490				30	
m,p-Xylenes	**2.16**	1.0	ug/L		2.83			26.9	30	
Surrogate: 4-Bromofluorobenzene	*52.2*		*ug/L*	*50*		*104*	*70-140*			
Surrogate: Dibromofluoromethane	*56.8*		*ug/L*	*50*		*114*	*70-140*			
Surrogate: Toluene-d8	*54.6*		*ug/L*	*50*		*109*	*70-140*			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
*Batch B9E0720 - *** DEFAULT PREP ****										
Blank (B9E0720-BLK1)				Prepared & Analyzed: 05/07/19						
Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	*46.3*		*ug/L*	*50*		*92.6*	*70-130*			
LCS (B9E0720-BS1)				Prepared & Analyzed: 05/07/19						
Gasoline Range Organics (GRO)	**444**	20	ug/L	500		88.8	75-125			
Surrogate: a,a,a-Trifluorotoluene	*54.3*		*ug/L*	*50*		*109*	*70-130*			
LCS Dup (B9E0720-BSD1)				Prepared & Analyzed: 05/07/19						
Gasoline Range Organics (GRO)	**447**	20	ug/L	500		89.5	75-125	0.697	30	
Surrogate: a,a,a-Trifluorotoluene	*54.7*		*ug/L*	*50*		*109*	*70-130*			
Duplicate (B9E0720-DUP1)			**Source: 9E06010-01**	Prepared & Analyzed: 05/07/19						
Gasoline Range Organics (GRO)	**2860**	20	ug/L		2910			1.54	30	
Surrogate: a,a,a-Trifluorotoluene	*56.9*		*ug/L*	*50*		*114*	*70-130*			
GRO in Vapor as Hexane - Quality Control										
*Batch B9E0720 - *** DEFAULT PREP ****										
Blank (B9E0720-BLK1)				Prepared & Analyzed: 05/07/19						
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B9E0720-DUP1)			**Source: 9E06010-01**	Prepared & Analyzed: 05/07/19						

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: A5333047
Date Received: 05/06/19
Date Reported: 05/17/19

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
*Batch B9E0720 - *** DEFAULT PREP ****										
Duplicate (B9E0720-DUP1) Continued	**Source: 9E06010-01**		Prepared & Analyzed: 05/07/19							
GRO as Hexane	**624**	5.7	ppmv		634			1.51	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333047
Project No:	04-NDLA-013	**Date Received:**	05/06/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	05/17/19

Special Notes

Viorel Vasile
Operations Manager

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

18074

9765 ETON AVE., CHATSWORTH, CA 91311
Tel: 818-998-5547 FAX: 818-998-7258

Client:	The Source Group, Inc.	**Project Name / No.:**	DFSP - Norwalk / 091-NDLA	**Sampler's Name:**	Glenn Andrasko
Project Manager:	Neil Irish	**Site Address:**	15306 Norwalk Blvd	**Sampler's Signature:**	Glenn Andrasko
Phone:	562-597-1055	**City:**	Norwalk	**P.O. No.:**	
Fax:	569-597-1070	**State & Zip:**	CA 90650	**Quote No.:**	

TAT Turnaround Codes **

(1) = Same Day Rush
(2) = 24 Hour Rush
(3) = 48 Hour Rush
(4) = 72 Hour Rush
(5) = 5 Day Rush
X = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	Total VOCs Gas 8015	Total VOCs Hexane 8015	BTEX/MTBE 8260B							Special Instructions
						Please enter the TAT Turnaround Codes ** below									
Thermox Influent	9E06010 - 01	5-6-19	0952	Air	1	✓	✓	✓							VOC's reported as
Thermox Effluent	-02	"	0945	Air	1	✓	✓	✓							TPH and Hexane
															Detection limit of 75
															ppm for Hexane
															and 0.15 ppm for
															Benzene

PRIORITY
SH ✓
Rush Date 5/6/19 Time 1600 Sign

'19 MAY 6

Relinquished by	Date	Time	Received by
Glenn Andrasko	5-6-19	11:55	
	5-6-19	15:07	

A5333047 / 9E06010

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.

AMERICAN ANALYTICS

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

June 20, 2019

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

Re : DFSP Norwalk VES AQMD / 04-NDLA-013

A5333074a / 9F06006

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 06/06/19 17:03 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 Analytics.

Sincerely,

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: A5333074a
Date Received: 06/06/19
Date Reported: 06/20/19

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
GRO in Vapor as Hexane					
Thermox Influent	9F06006-01	Vapor	5	06/06/19 09:53	06/06/19 17:03
Thermox Effluent	9F06006-02	Vapor	5	06/06/19 09:47	06/06/19 17:03
VOCs BTEX/MTBE Vapor GC/MS					
Thermox Influent	9F06006-01	Vapor	5	06/06/19 09:53	06/06/19 17:03
Thermox Effluent	9F06006-02	Vapor	5	06/06/19 09:47	06/06/19 17:03
VOCs Gasoline Range Organics Vapor					
Thermox Influent	9F06006-01	Vapor	5	06/06/19 09:53	06/06/19 17:03
Thermox Effluent	9F06006-02	Vapor	5	06/06/19 09:47	06/06/19 17:03

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333074a
Project No:	04-NDLA-013	**Date Received:**	06/06/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	06/20/19
Matrix:	Vapor	**Sampled:**	06/06/19
Dilution:	1	**Prepared:**	06/07/19
Method:	VOCs BTEX/MTBE Vapor by GC/MS 8260M	**Analyzed:**	06/07/19

Thermox Influent

9F06006-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	**17**	ug/L	0.50	**5.3**	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	**0.80**	ug/L	0.50	**0.21**	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	**2.0**	ug/L	1.0	**0.46**	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	106 %	70-140
Dibromofluoromethane	121 %	70-140
Toluene-d8	104 %	70-140

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333074a
Project No:	04-NDLA-013	**Date Received:**	06/06/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	06/20/19
Matrix:	Vapor	**Sampled:**	06/06/19
Dilution:	0.5	**Prepared:**	06/07/19
Method:	VOCs BTEX/MTBE Vapor by GC/MS 8260M	**Analyzed:**	06/07/19

Thermox Effluent

9F06006-02 (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	105 %	70-140
Dibromofluoromethane	113 %	70-140
Toluene-d8	102 %	70-140

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333074a
Project No:	04-NDLA-013	**Date Received:**	06/06/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	06/20/19
Matrix:	Vapor	**Sampled:**	06/06/19
Dilution:	1	**Prepared:**	06/07/19
Method:	Gasoline Range Organics in Vapor by GC/FID	**Analyzed:**	06/07/19

Thermox Influent

9F06006-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	**3900**	ug/L	20	**950**	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)	**AA Project No:**	A5333074a
Project No:	04-NDLA-013	**Date Received:**	06/06/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	06/20/19
Matrix:	Vapor	**Sampled:**	06/06/19
Dilution:	1	**Prepared:**	06/07/19
Method:	Gasoline Range Organics in Vapor by GC/FID	**Analyzed:**	06/07/19

Thermox Effluent

9F06006-02 (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	94.0 %	70-130

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333074a
Project No:	04-NDLA-013	**Date Received:**	06/06/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	06/20/19
Method:	GRO in Vapor as Hexane	**Units:**	ppmv

Date Sampled:	06/06/19	06/06/19	
Date Prepared:	06/07/19	06/07/19	
Date Analyzed:	06/07/19	06/07/19	
AA ID No:	9F06006-01	9F06006-02	
Client ID No:	Thermox Influent	Thermox Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL
GRO in Vapor as Hexane (EPA 8015M)			
GRO as Hexane	**860**	<5.7	5.7

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: A5333074a
Date Received: 06/06/19
Date Reported: 06/20/19

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										
*Batch B9F0707 - *** DEFAULT PREP ****										
Blank (B9F0707-BLK1)				Prepared & Analyzed: 06/07/19						
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	*51.2*		*ug/L*	*50*		*102*	*70-140*			
Surrogate: Dibromofluoromethane	*52.9*		*ug/L*	*50*		*106*	*70-140*			
Surrogate: Toluene-d8	*52.1*		*ug/L*	*50*		*104*	*70-140*			
LCS (B9F0707-BS1)				Prepared & Analyzed: 06/07/19						
Benzene	**22.8**	0.50	ug/L	20		114	75-125			
Ethylbenzene	**23.6**	0.50	ug/L	20		118	75-125			
Methyl-tert-Butyl Ether (MTBE)	**45.2**	2.0	ug/L	40		113	75-125			
Toluene	**24.0**	0.50	ug/L	20		120	75-125			
o-Xylene	**22.6**	0.50	ug/L	20		113	75-125			
m,p-Xylenes	**43.0**	1.0	ug/L	40		107	75-125			
Surrogate: 4-Bromofluorobenzene	*49.7*		*ug/L*	*50*		*99.5*	*70-140*			
Surrogate: Dibromofluoromethane	*48.6*		*ug/L*	*50*		*97.1*	*70-140*			
Surrogate: Toluene-d8	*53.8*		*ug/L*	*50*		*108*	*70-140*			
LCS Dup (B9F0707-BSD1)				Prepared & Analyzed: 06/07/19						
Benzene	**22.9**	0.50	ug/L	20		115	75-125	0.525	30	
Ethylbenzene	**23.4**	0.50	ug/L	20		117	75-125	0.852	30	
Methyl-tert-Butyl Ether (MTBE)	**51.7**	2.0	ug/L	40		129	75-125	13.4	30	**
Toluene	**24.0**	0.50	ug/L	20		120	75-125	0.292	30	
o-Xylene	**23.8**	0.50	ug/L	20		119	75-125	5.05	30	
m,p-Xylenes	**44.0**	1.0	ug/L	40		110	75-125	2.48	30	
Surrogate: 4-Bromofluorobenzene	*49.9*		*ug/L*	*50*		*99.8*	*70-140*			
Surrogate: Dibromofluoromethane	*50.5*		*ug/L*	*50*		*101*	*70-140*			
Surrogate: Toluene-d8	*52.2*		*ug/L*	*50*		*104*	*70-140*			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										

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: A5333074a
Date Received: 06/06/19
Date Reported: 06/20/19

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										
*Batch B9F0705 - *** DEFAULT PREP ****										
Blank (B9F0705-BLK1)				Prepared & Analyzed: 06/07/19						
Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	*44.3*		*ug/L*	*50*		*88.7*	*70-130*			
LCS (B9F0705-BS1)				Prepared & Analyzed: 06/07/19						
Gasoline Range Organics (GRO)	**443**	20	ug/L	500		88.7	75-125			
Surrogate: a,a,a-Trifluorotoluene	*53.8*		*ug/L*	*50*		*108*	*70-130*			
LCS Dup (B9F0705-BSD1)				Prepared & Analyzed: 06/07/19						
Gasoline Range Organics (GRO)	**461**	20	ug/L	500		92.2	75-125	3.93	30	
Surrogate: a,a,a-Trifluorotoluene	*54.3*		*ug/L*	*50*		*109*	*70-130*			
Duplicate (B9F0705-DUP1)		**Source: 9F06007-05**		Prepared & Analyzed: 06/07/19						
Gasoline Range Organics (GRO)	**17600**	200	ug/L		21100			18.1	30	
Surrogate: a,a,a-Trifluorotoluene	*46.9*		*ug/L*	*50*		*93.7*	*70-130*			
GRO in Vapor as Hexane - Quality Control										
*Batch B9F0705 - *** DEFAULT PREP ****										
Blank (B9F0705-BLK1)				Prepared & Analyzed: 06/07/19						
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B9F0705-DUP1)		**Source: 9F06007-05**		Prepared & Analyzed: 06/07/19						
GRO as Hexane	**3820**	57	ppmv		4590			18.5	30	

Viorel Vasile
Operations Manager

LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	**AA Project No:**	A5333074a
Project No:	04-NDLA-013	**Date Received:**	06/06/19
Project Name:	DFSP Norwalk VES AQMD	**Date Reported:**	06/20/19

Special Notes

[1] = ****** : Exceeds upper control limit.

Viorel Vasile
Operations Manager

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311
Tel: 818-998-5547 FAX: 818-998-7258

18292

Client:	The Source Group, Inc.	**Project Name / No.:**	DFSP - Norwalk / 091-NDLA	**Sampler's Name:**	Glenn Androsko
Project Manager:	Neil Irish	**Site Address:**	15306 Norwalk Blvd	**Sampler's Signature:**	Glenn Androsko
Phone:	562-597-1055	**City:**	Norwalk	**P.O. No.:**	
Fax:	569-597-1070	**State & Zip:**	CA 90650	**Quote No.:**	

TAT Turnaround Codes **

1 = Same Day Rush
2 = 24 Hour Rush
3 = 48 Hour Rush
4 = 72 Hour Rush
5 = 5 Day Rush
X = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

Please enter the TAT Turnaround Codes ** below

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	Total VOCs Gas 8015	Total VOCs Hexane 8015	BTEX/MTBE 8260B	Special Instructions
Thermox Influent	9F06006-01	6-6-19	0953	Air	1	✓	✓	✓	VOC's reported as
Thermox Effluent	-02	6-6-19	0947	Air	1	✓	✓	✓	TPH and Hexane
									Detection limit of 75
									ppm for Hexane
									and 0.15 ppm for
									Benzene

PRIORITY Rush SH Date 6/7/19 Time 0920 Hrs Sign

19 JUN 6

AS333074a/9F06006

Relinquished by	Date	Time	Received by
Glenn Androsko	6-6-19	10:40	[signature]
[signature]	6-6-19	17:03	[signature]

Note: By relinquishing samples to American Analytics, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytics.

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: 011752918 FLE

5. Generator's Name and Mailing Address:
Defense Logistics Agency Installation Support for Energy
3171 North Gaffey St. Attn: Todd Williams
San Pedro, CA 90731
Generator's Phone: (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: CAT080011116

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
Facility's Phone: (310) 537-7100
U.S. EPA ID Number: CAT080013352

GENERATOR

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1993, Flammable Liquid, n.o.s., 3, PGII (contains jet fuel)	001	TT	1207	G	133
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information:
ERG# 128 / Jet Fuels & Groundwater
SGI/APEX Contact: Glenn Androska
(714) 608-1060
BESI PO # 305721
WEAR ALL APPROPRIATE PROTECTIVE CLOTHING Profile # 945492

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/Offeror's Printed/Typed Name: Todd E. H. Williams — Signature: [signature] — Month 04 Day 12 Year 19

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jose Cabrera — Signature: [signature] — Month 04 Day 12 Year 19
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ 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.
H039			

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: Sarah Resay — Signature: [signature] — Month 04 Day 12 Year 19

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. TRANSPORTER'S COPY

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