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August 15, 2020

Mr. Paul Cho, P.G.
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Los Angeles Regional Water Quality Control Board
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Los Angeles, California 90013

Dear Mr. Cho:

Enclosed is one electronic copy of the *Remediation Status Report – Second Quarter 2020, Defense Fuel Support Point Norwalk* (SCP NO. 0286A, SITE ID No. 16638) located at 15306 Norwalk Boulevard, Norwalk, California

If you have any questions or need additional information concerning this document, please contact Ms. Carol Devier-Heeny at (571) 767-9813 or carol.devier-heeny@dla.mil.

Sincerely,

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M.Y.1394566272

Digitally signed by
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William Y. Potter, P.G.
Chief, Restoration Branch

Enclosure
As stated

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

REMEDIATION STATUS REPORT - SECOND QUARTER 2020

**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)
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LIST OF ACRONYMS

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

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

1.0 INTRODUCTION

On behalf of our client, Defense Logistics Agency Installation Management for Energy (DM-FEE) Environmental Division Restoration Branch (DLA Energy), The Source Group, Inc. (SGI) presents this report to summarize remediation system operations during this reporting period (Second Quarter 2020 – April 1, 2020 through June 31, 2020) for the Defense Fuel Support Point (DFSP) Norwalk facility, located at 15306 Norwalk Boulevard, Norwalk, California (Site; Figures 1 and 2).

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

1.1 Contaminants of Concern

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

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

1.2 Remediation Technologies

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

Remediation technologies utilized at the Site include soil vapor extraction (SVE), groundwater extraction (GWE), biosparging, and light non-aqueous phase liquid (LNAPL) removal via manual bailing, vacuum truck, passive skimming, active pumping using a portable skimming pump and absorbent socks. The above ground 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 wells pumping to the groundwater extraction and treatment system (GWETS) for hydrocarbon extraction of dissolved-phase subsurface impacts, historically included wells installed in the northwest corner of the Site (GW-2 and GW-13), the central area (GW-14R, which was not connected to the GWETS due to the presence of LNAPL at the time), and the eastern area (GW-15, GW-16, and GMW-58, which was not connected to the GWETS when SGI/Apex took over the project).

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

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

1.2.2 Biosparge System

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

1.2.3 Soil Vapor Extraction Systems

As illustrated on Figure 2, the SVE well network for hydrocarbon extraction from vadose zone subsurface impacts historically included wells installed in the following areas: former above ground

storage tank (AST) basin 80001 (VEW-23), former AST basins 80006 and 80007 (VEW-22, HW-1 and HW-3), former AST basin 80008 (HW-5, and HW-7), former AST basin 55004 (VEW-28, VEW-29, and VEW-30), northeastern boundary area (VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, and VEW-37), and southern former truck fueling and water tank area (VEW-31, VEW-38, VEW-39, VEW-40, VW-07, VW-09, VW-10, VW-11, VW-12, VW-13, VW-14, VW-15, and VW-16).

Several new SVE wells were installed within the eastern area and southern area of the Site during November 2016 and June/July 2017, as summarized in SGI's June 30, 2017 *Remediation Well Installation Update Report*. Wells VEW-38, VEW-39 and VEW-40 were brought online to the carbon vapor extraction system (VES) in June 2017, and wells RW-1, RW-2, RW-7, RW-9, RW-12, RW-13, RW-18, RW-20 through RW-24, RW-26, and RW-28 through RW-33 were brought online in August 2017. The new SVE wells were brought online following the completion of tie-in work to the carbon VES. Most of these wells were subsequently tied into the temporary thermal oxidizer VES during late December 2017/early January 2018 prior to the January 8, 2018 startup of this system, with the carbon VES being utilized to exclusively extract from three horizontal wells (HW-1, HW-5 and HW-7) that span through the entire former tank farm since 2018. Additionally, tie-in of wells RW-2 through RW-8, RW-10 through RW-12, and RW-14 through RW-17 to the temporary thermal oxidizer VES was completed on February 14, 2018, and wells RW-34 through RW-50 were tied in and brought online on June 27, 2018. The permanent full-scale thermal oxidizer VES (hereafter referred to as thermal oxidizer VES) was installed and tested and system startup began on March 13, 2019.

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

1.2.3.1 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 above ground soil treatment activities at the Site which were completed in March 2017 (see Section 1.2.5 for further details). System operational data is summarized in Tables 3A through 3C. Active SVE wells associated with the system are identified in Section 3.2 and Table 4.

1.2.3.2 Thermal Oxidizer Vapor Extraction System

A temporary thermal oxidizer VES began operation on January 8, 2018. The temporary thermal oxidizer VES was intended to treat vapors associated with the relatively high concentration SVE wells that were originally tied into the carbon VES, as discussed in SGI's May 15, 2018 *Remediation*

Status Report - First Quarter 2018. These high concentration SVE wells were connected to the carbon VES in late June and early August 2017. Additional wells in the Southern Area of the Site (RW-34 through RW-50) were brought online to the temporary thermal oxidizer VES in June 2018. The system was shut down on January 8, 2019 to comply with the SCAQMD Various Locations Permit F97121 which limited the operational period to one calendar year.

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

Soil vapors from the thermal oxidizer VES knockout tank are heated to a minimum temperature of 1,400 degrees Fahrenheit (°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. System operational data is summarized in Tables 5A through 5C. Active SVE wells associated with the thermal oxidizer systems are identified in Section 3.2 and Table 6.

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 7A through 7W. A map showing the May 20, 2020 total petroleum hydrocarbons in groundwater is presented in Figure 3.

1.2.5 Above Ground 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 above ground treatment cell construction activities.

From January 2015 through March 2017, a total estimated volume of 67,574 cubic yards of petroleum hydrocarbon contaminated soil was excavated at the Site to depths up to 35 feet below ground surface. The goal of this remediation was to clean up source area soils that contributed to the degradation of groundwater and ready the real property of the Site for eventual conveyance.

Details associated with the OM&M of the biopiles are provided in prior remediation status reports. Further details regarding treatment cell construction and excavated soil cleanup activities are provided in SGI's January 2018 *Shallow Soil Closure Report* and September 2018 *Addendum to the Shallow Soil Closure Report – Western Portion*. The LARWQCB granted a no further action (NFA) determination for the shallow soil in the upper 10 feet of the Site's eastern 15-acre parcel on April 19, 2018. The NFA determination was contingent upon declaration of covenant and environmental restriction, which was recorded on September 27, 2018. Regulatory closure of shallow soil in the western part of the Site is pending.

1.2.6 Soil Management

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

2.0 OPERATIONS, MAINTENANCE AND MONITORING

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

- Performed minimum weekly maintenance and monitoring of the GWETS, carbon VES, thermal oxidizer VES, LNAPL Recovery, and the biosparge system.
- Collected and analyzed influent and effluent vapor samples from the carbon VES and thermal oxidizer VES.
- Collected groundwater effluent samples from the GWETS in accordance with Industrial Wastewater Discharge permit number 22453.
- Performed weekly LNAPL removal from applicable wells via bailing, skimming and/or absorbent socks.
- Performed periodic gauging of wells connected to the product recovery system, along with adjusting associated pump cycle durations and frequencies to optimize LNAPL removal.
- Continued extraction efforts from wells with LNAPL and monitored for thicknesses of LNAPL sufficient to resume pumping in off-line wells.

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

2.1 Groundwater Extraction and Treatment System

The GWETS was restarted on October 10, 2019. GWE wells pumping to the GWETS this quarter were GW-14R, GWM-31 and GW-16. System OM&M details and monthly performance results are summarized in Tables 2A, 2B and 2C.

A historical summary of influent water analytical sample results is provided in Table 8. Per the new sewer discharge permit, sampling will be conducted semiannually and quarterly (chemical oxygen demand [COD] and suspended solids [SS] only) beginning January 1, 2020.

Wells GMW-31 and GW-14R, which has had no measurable LNAPL since December 2019, were connected to the GWETS on March 11, 2020 and began operation on May 14, 2020 and May 18, 2020, respectively. The GWETS was shut down on June 30, 2020 to enhance the water treatment process.

2.2 Soil Vapor Extraction Systems

The carbon VES system was restarted on November 21, 2019 upon installation of a new blower. System OM&M details and performance results are summarized in Tables 3A, 3B and 3C. Historical field photoionization detector (PID) readings from individual wells are summarized in Tables 9A through 9D; historical analytical vapor sampling results from individual wells are summarized in Table 10.

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

A permanent thermal oxidizer VES was installed and startup was conducted on March 13, 2019. System operational hours were limited to daytime hours from July to mid-August due to ongoing noise concerns from nearby residents. Sound blankets were installed in August and the thermal oxidizer began unrestricted operation (24/7) on August 26, 2019. The thermal oxidizer is intended to treat vapors associated with the relatively high concentration SVE wells that were originally tied into the carbon VES, as discussed in SGI's May 15, 2018 *Remediation Status Report - First Quarter 2018*. All such wells that have since been installed and connected as part of ongoing remediation expansion activities at the Site have been tied into the thermal oxidizer to cost-effectively accelerate the overall remediation project. Compliance and/or performance soil vapor samples from the carbon and thermal oxidizer VESs were collected in Tedlar bags during the reporting period as summarized in Tables 4 and 6. 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 4 and 6, respectively. The laboratory analytical reports and chain-of-custody documents for the thermal oxidizer and carbon VES samples are included in Appendix A. As the Table 6 results indicate, thermal oxidizer VES concentrations have remained elevated since April 2019 likely due to the volatilization induced by the expanded biosparging operations in the eastern and central areas. Maximum gasoline range organic (GRO), benzene and MTBE concentrations this period are 7,700 micrograms per liter ($\mu\text{g/L}$), 4.9 $\mu\text{g/L}$ and non-detect (ND) <2.0 $\mu\text{g/L}$, respectively. Maximum historic levels for these constituents were previously 14,000 $\mu\text{g/L}$ for GRO (October 2019) and 21 $\mu\text{g/L}$ for benzene (August 2019). MTBE has never been detected.

2.3 Biosparge System

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

Dual-nested SVE and biosparge wells RW-1 through RW-34 were installed during late June and early July 2017 with additional wells, RW-35 through RW-50 and TFB-1 through TFB-38, installed during November and December 2017 (Table 1). All of these wells were installed as part of ongoing remedial expansion activities to target impacts in the northeastern, central and former truck fueling

areas of the Site (Figure 2) in accordance with SGI's March 14, 2017 *Well Replacement Report and Work Plan*, June 30, 2017 *Remediation Well Installation Update Report*, and July 11, 2018 *Well Installation Completion Report*.

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

2.4 LNAPL Removal Via Bailing, Skimming and Absorbent Socks

Depth to product (DTP) and depth to groundwater (DTW) were measured to the nearest 0.01 foot from the top of the well casing (TOC) using an interface probe in select monitoring wells approximately every two weeks during the reporting period. LNAPL was removed from select wells via manual bailing, active pumping using a portable product skimmer and by utilizing absorbent socks. Mass and volume removal estimates using these techniques are summarized in Tables 7A through 7D along with associated LNAPL gauging results. All product is placed in an AST located within the existing treatment compound.

2.5 LNAPL Removal Via Product Recovery System

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

All pumped product is routed to an AST located within the existing treatment compound via double contained conveyance piping. The product stored in the AST is subsequently removed off-site by a licensed transport, recycling and disposal company (Appendix B). LNAPL removal is determined individually for active 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. A portion of the total AST product volume is assigned to each active pump based on well-specific cycle duration and frequency values which are 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. OM&M details for all wells connected to the product recovery system during this quarter are provided in Tables 7E through 7W.

3.0 SUMMARY OF REMEDIATION PROGRESS

The following sections describe remedial progress at the Site.

3.1 Groundwater Extraction and Treatment System

The GWETS was restarted on October 10, 2019. Based on the total petroleum hydrocarbons quantified as diesel (TPHd) results for influent water samples and total groundwater extracted, estimated 9,948 pounds of TPHd have been removed since April 1996 (Table 2C).

3.2 Soil Vapor Extraction Systems

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

During this quarter, wells (central area) TFR-21, TFR-26, TFR-27, TFR-28, TFR-34, TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW, TFR-23, TFR-24, TFR-30, TFR-33, TFR-17, TFR-18, TFR-19, TFR-13, TFR-14, TFR-15, TFR-7, TFR-9, TFR-12,; (eastern area) RW-1, RW-7, RW-8, RW-13, RW-14, RW-3, RW-4, RW-9, RW-10; (southern area) RW-30, RW-31, RW-32, VEW-40, RW-26, RW-28, RW-33, RW-22, RW-29, RW-35, RW-40, RW-36, RW-37, RW-41, RW-42, RW-47, RW-48, RW-49, RW-50 were used as the extraction points for the thermal oxidizer VES based on field photoionization detector (PID) readings (Tables 9B through 9D) and previous quarters laboratory concentrations (Table 10).

The total mass of VOCs removed via the carbon and the thermal oxidizer extraction systems during this period was approximately 30,461 pounds (284 pounds via the carbon VES and 30,177 pounds via the thermal oxidizer VES). An estimated 2,983,340 pounds have been removed since April 1996 (Table 3C) via the carbon VES and approximately 230,712 pounds removed via the temporary and permanent thermal oxidizer VESs since January 2018 (Table 5C). Note that the total estimated mass of VOCs removed via SVE does not account for any mass removed *in-situ* via biodegradation.

3.3 Biosparge System

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

RW-23, RW-26, BSP-17, BSP-18, RW-30, RW-31, RW-32, RW-34, BSP-15, BSP-16, RW-19, RW-20, RW-25, and RW-28. Additional southern area wells RW-22, RW-24, RW-27, RW-29, RW-33, RW-43, RW-35, RW-38, RW-39, RW-45, RW-36, RW-37, RW-41, RW-42, RW-46, RW-47, RW-48, RW-49, and RW-50 were brought online on September 20, 2019. Additional eastern area wells RW-1, RW-3, RW-12, and RW-13 were brought online on November 15, 2019. Additional central area wells TFB-7, TFB-9, TFB-10, TFB-11, TFB-12, TFB-13, TFB-14, TFB-1, TFB-2, TFB-4, TFB-5, TFB-6, and TFB-8 were brought online on November 18, 2019.

Central area wells TFB-21, TFB-26, TFB-27, TFB-28, TFB-31, TFB-34, TFB-16, TFB-17, TFB-20, TFB-32, TFB-36, TFB-37, and TFB-38 continue to target areas where the LNAPL plume has receded. Startup of additional inactive biosparge wells will be evaluated based on LNAPL plume trends and monitoring data collected as part of ongoing system optimization efforts.

3.4 LNAPL Gauging and Removal

During the reporting period, DTW and DTP were measured in Hollifield Park wells GMW-62, GMW-68, and on-site wells TFR-12, TFR-14, TFR-18, TFR-22, TFR-24, TFR-29, RTF-18-E, RTF-18-NW, and TF-18 (Tables 7A through 7W). Overall, LNAPL thickness and removal rates decreased in Second Quarter 2020.

A total of approximately 59 gallons (402 pounds) of LNAPL was removed from the Site during this quarter, and an estimated 10,224 gallons (69,051 pounds) of LNAPL has been removed since January 2014.

3.4.1 LNAPL Removal Via Bailing, Skimming and Absorbent Socks

Approximately 2.7 gallons (19 pounds) of LNAPL was removed via manual bailing, active pumping using a portable product skimmer and/or by utilizing absorbent socks from wells GMW-62 and GMW-68 (Tables 7A and 7B, respectively).

3.4.2 LNAPL Removal Via Product Recovery System

Wells TFR-9, GMW-18, TFR-12, TFR-14, TF-15, TFR-15, TF-16, GW-14R, TFR-22, TFR-24, TFR-29, and TFR-33, RTF-18-E, RTF-18-NW, RTF-18-N, TF-18, RTF-18-NNW and RTF-18-W were connected to an automated product recovery system which included 16 total active recovery pumps. Pumping resumed in well RTF-18-E in early January 2019 and was taken back off-line in late February 2019 due to insufficient yield. Pumping resumed in September 2019, and shut down again in mid-February 2020 due to insufficient yield. 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-27, and GMW-45 conducted in early October 2018, skimmers have remained off-line since mid-October 2018. If LNAPL thicknesses increase, pumping may resume from these wells during the next reporting period.

Approximately 56 gallons (383 pounds) of LNAPL was pumped from wells TFR-12, TFR-14, TFR-18, TFR-22, TFR-24, TFR-29, RTF-18-E, RTF-18-NW, and TF-18 during this reporting period, with most LNAPL recovered from wells TFR-29 (227 pounds) and TFR-22 (43 pounds).

LNAPL gauging results along with cumulative mass and volume removal estimates are summarized in Tables 7A through 7W. As the tables indicate, product thicknesses generally decreased during the current reporting period. Consequently, well TFR-29 was the only active pumping well at the end of the reporting period.

4.0 REMEDIATION SYSTEMS EVALUATION AND OPTIMIZATION

Remedial system optimization activities are ongoing at the Site to help ensure effective cleanup operations. For the carbon VES, vapor-phase VOC concentrations from the horizontal wells will be monitored and sampled. Continuous thermal oxidizer VES operation began on August 26, 2019 after the installation of sound blankets.

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

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

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

GWE in the central area from wells GMW-31 and GW-14R and in the eastern area from well GW-16 will continue to assist with containment until further evaluation of natural attenuation is conducted. Additionally, absorbent sock installation and LNAPL recovery via pumping and/or manual bailing will continue along with full-scale OM&M of the product recovery system. LNAPL recovery was sufficient to allow for pumping in wells TFR-12, TFR-14, TFR-18, TFR-22, TFR-24, TFR-29, RTF-18-E, RTF-18-NW, and TF-18. Currently, well TFR-29 is the only active pumping well.

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

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

Biosparging operations will be optimized to enhance volatilization and biodegradation in impacted areas, and will expand to target areas where the LNAPL plume has receded. Periodic collection of pressure response and field parameters data from monitoring wells within the treatment zone will be used to optimize operations and confirm the biosparging zone of influence. Additionally, the LNAPL gauging data will be used to evaluate whether scaling back biosparging operations in some areas is necessary to minimize the risk of mobilizing the LNAPL plume via groundwater mounding.

5.0 PLANNED THIRD QUARTER 2020 ACTIVITIES

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

- Continue minimum weekly maintenance and monitoring of the thermal oxidizer VES. Tasks include measuring individual well vapor concentrations with an organic vapor analyzer (OVA) and collecting/analyzing monthly influent and effluent vapor samples.
- Collect individual extraction well vapor samples for laboratory analysis as needed. Vapor samples will be collected from horizontal wells and extraction wells.
- Continue regular LNAPL gauging and removal activities (as applicable), including wells GWM-62 and GMW-68 (both located off-site in Holifield Park), GMW-7, TF-19, and product recovery system wells TFR-9, GMW-18, TFR-12, TF-15, TFR-14, TFR-15, TF-16, GW-14R, TFR-18, TFR-22, TFR-24, TFR-29, TFR-33, RTF-18-E, RTF-18-NW, RTF-18-N, RTF-18-NNW, RTF-18-W, TF-18, TFR-27, and GMW-45.
- Gauge wells TFR-17, TFR-19, TFR-32, TFR-30, TFR-5, TFR-7, TFR-21, and TFR-26 periodically as SVE is applied (via the thermal oxidizer VES) in order to evaluate any appearance and/or increase in LNAPL thicknesses and the potential for active/passive product recovery.
- Continue controlled product recovery system OM&M from wells TFR-22, TFR-18, TFR-24, TFR-29, and RTF-18-E, located in the north-central portion of the Site, with focused efforts in wells where LNAPL yields are the most significant.
- Continue to utilize the carbon VES for focused extraction from the relatively low concentration SVE wells to allow for reasonable carbon usage rates while achieving comprehensive site-wide vadose zone cleanup in conjunction with the new permanent thermal oxidizer VES (i.e., treatment of both relatively high and low concentration wells via the simultaneous use of both vapor abatement technologies).
- Continue the phased expansion of the permanent thermal oxidizer VES operations to cost-effectively process high vapor concentration (thermal mode above approximately 3,000 parts per million [ppm]) to moderate vapor 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. north-central areas).
- Restart regular GWETS operations and collect groundwater samples for laboratory analysis as required by the sewer discharge permit.

- Continue to evaluate GWE flow rates and confirm contaminant containment.

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

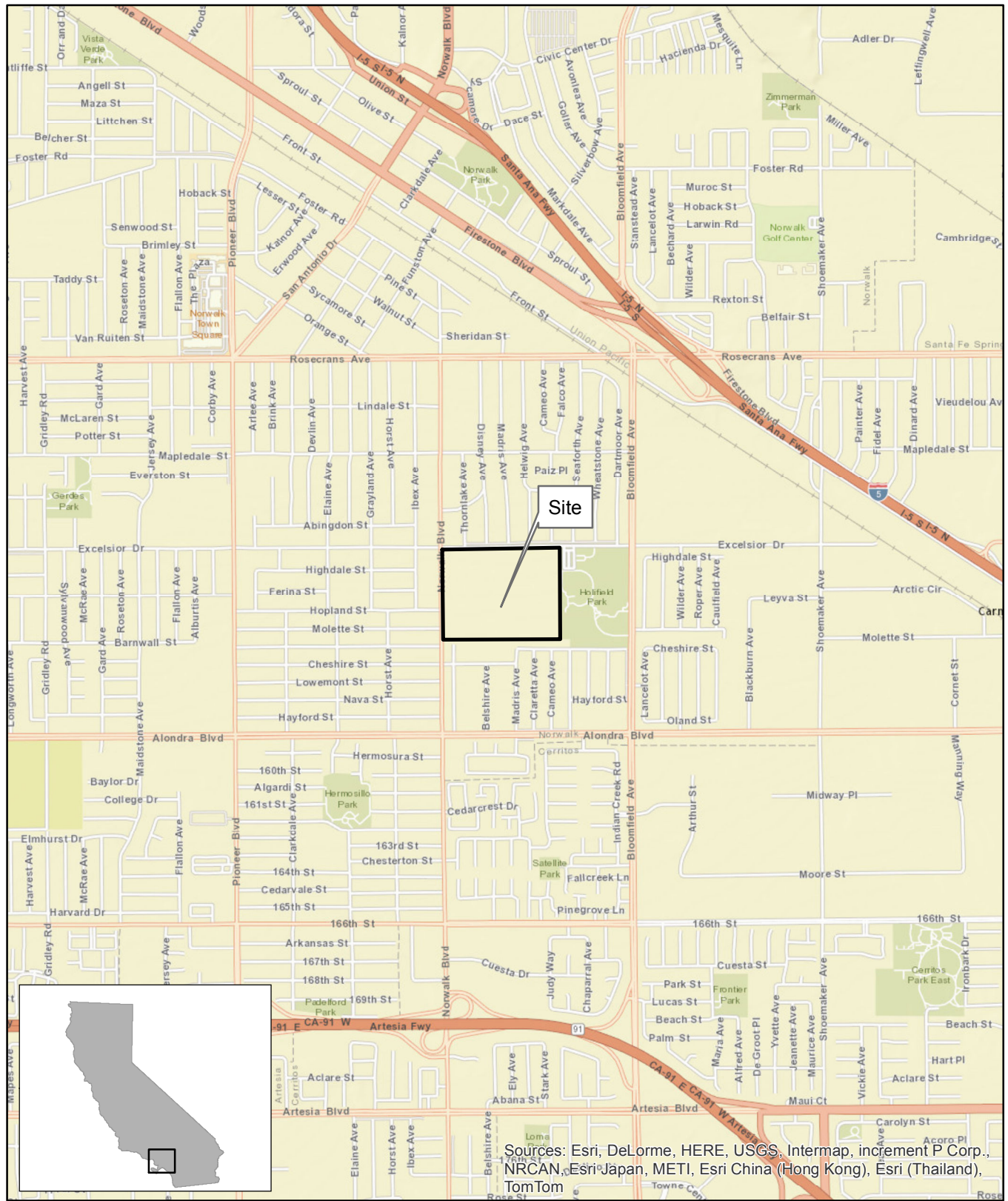
6.0 LIMITATIONS

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

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

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

FIGURES



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

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

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

SCALE= 1:24,000



1962 FREEMAN AVENUE SIGNAL HILL, CA 90755
(562) 597-1055

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

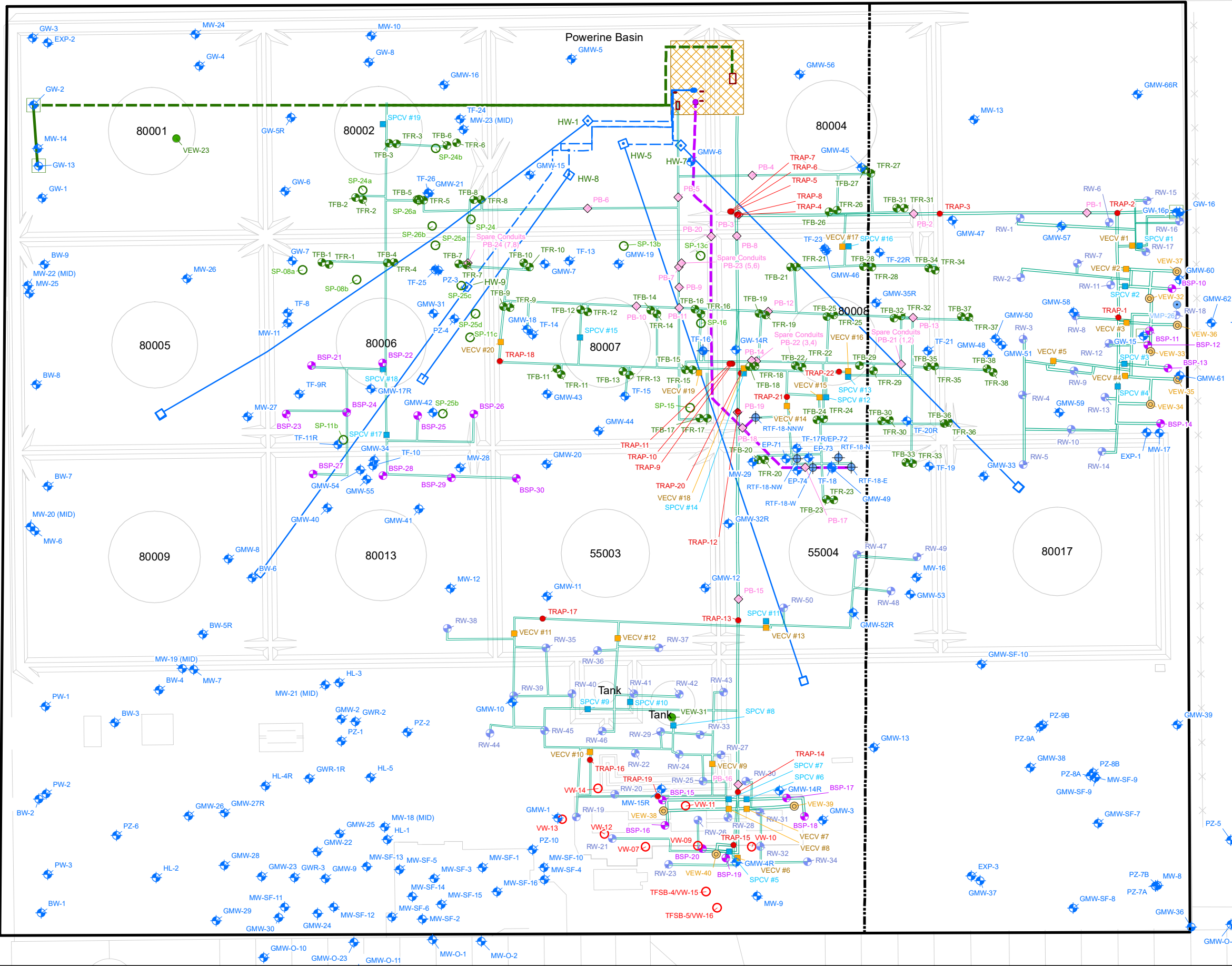
SITE LOCATION MAP

FIGURE
1

Excelsior Dr

Powerline Basin

Norwalk Blvd



Legend

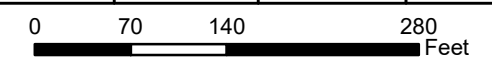
- 80001 Former Above Ground Storage Tanks
- DFSP Norwalk Border
- Fence
- Berm
- Treatment System Enclosure
- Below Grade Trenching and Piping to Remediation Wells
- Existing Horizontal Vapor Extraction Wells
- Below Grade Groundwater Extraction System Piping
- Above Grade Groundwater Extraction System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



DFSP Norwalk

15306 Norwalk Boulevard
Norwalk, California

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



Site Map Showing All Well and Piping Locations



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

Figure
2

TABLES

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

Remediation Area	Location	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
Central Area	Northwest Corner (AST 80001)	GW-1		06/12/95	75.97	63	25 - 60	GWE
		GW-2		06/12/95	75.78	63	25 - 60	GWE
		GW-3		06/13/95	75.79	63	25 - 60	GWE
		GW-4		06/12/95	75.78	63	25 - 60	GWE
		GW-13		04/26/07	76.85	67	25 - 65	GWE
		VEW-23		08/03/04	76.20	25	15 - 25	SVE
Central Area	North (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 80001, AST 55004)	VEW-22	16	--	--	25	15 - 25	SVE
		HW-1	14	--	--	25	Continuous	SVE
		HW-3	14, 17, 18	--	--	25	Continuous	SVE
		HW-5	14	--	--	25	Continuous	SVE
		HW-7	14	--	--	25	Continuous	SVE
		HW-8	19	06/07/19	--	30	60	SVE
		HW-9	19	06/07/19	--	29	220	SVE
		GMW-21	1	08/02/91	76.23	50	25 - 50	TFE/GWE
		GMW-31		06/02/93	76.50	65	25 - 50	GWE
		GW-14R	2	11/08/16	78.77	50	25 - 50	GWE
		SP8a	15	--	--	50	48 - 50	Biosparge
		SP-8b	15	--	--	50	48 - 50	Biosparge
		SP-11b	15	--	--	50	48 - 50	Biosparge
		SP-11c	15	--	--	50	48 - 50	Biosparge
		SP-13b	3, 15	--	--	50	48 - 50	Biosparge
		SP-13c	15	--	--	50	48 - 50	Biosparge
		SP-15	4, 15	--	--	50	48 - 50	Biosparge
		SP-16	15	--	--	50	48 - 50	Biosparge
		SP-24	15	--	--	50	48 - 50	Biosparge
		SP-24a	15	--	--	50	48 - 50	Biosparge
		SP-24b	15	--	--	50	48 - 50	Biosparge
		SP-25a	15	--	--	50	48 - 50	Biosparge
		SP-25b	15	--	--	50	48 - 50	Biosparge
		SP-25c	15	--	--	50	48 - 50	Biosparge
		SP-25d	15	--	--	50	48 - 50	Biosparge
		SP-26	15	--	--	50	48 - 50	Biosparge
		SP-26a	15	--	--	50	48 - 50	Biosparge
		TF-8		09/22/95	74.86	63	25 - 60	TFE, GWE
		TF-9	5	09/22/95	74.47	63	25 - 60	TFE, GWE
		TF-10		09/25/95	73.61	63	25 - 60	TFE, GWE
		TF-11	5	09/25/95	74.40	63	25 - 60	TFE, GWE
		TF-13		09/26/95	75.47	63	25 - 60	TFE, GWE
		TF-14		09/27/95	74.35	63	25 - 60	TFE, GWE
		TF-15		09/28/95	74.78	63	25 - 60	TFE, GWE
TF-16		09/28/95	75.89	63	25 - 60	TFE, GWE		
TF-17	6	09/29/95	74.88	63	25 - 60	TFE, GWE		
TF-18		07/06/94	73.75	50.5	20 - 50	TFE, GWE		
TF-19		10/03/95	75.07	63	25 - 60	TFE, GWE		
TF-20	7	10/03/95	75.08	63	25 - 60	TFE, GWE		
TF-21		09/29/95	74.96	63	25 - 60	TFE, GWE		
TF-22	8	10/02/95	74.76	63	25 - 60	TFE, GWE		

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

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

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15306 Norwalk Blvd., Norwalk, CA

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Central Area	North (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 80013, AST 55003, AST 55004)	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
		TFB-9	10	12/04/17	--	46	43 - 45	Biosparge
		TFB-10	10	12/04/17	--	46	43 - 45	Biosparge
		TFB-11	10	12/04/17	--	50	48 - 50	Biosparge
		TFB-12	10	12/01/17	--	46	43 - 45	Biosparge
		TFB-13	10	12/01/17	--	46	43 - 45	Biosparge
		TFB-14	10	11/30/17	--	46	43 - 45	Biosparge
		TFB-15	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-16	10	11/28/17	--	46	43 - 45	Biosparge
		TFB-17	10	11/28/17	--	46	43 - 45	Biosparge
		TFB-18	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-19	10	11/28/17	--	46	43 - 45	Biosparge
		TFB-20	10	11/30/17	--	46	43 - 45	Biosparge
		TFB-21	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-22	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-23	10	11/28/17	--	46	43 - 45	Biosparge
		TFB-24	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-25	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-26	10	11/22/17	--	46	43 - 45	Biosparge
		TFB-27	10	11/21/17	--	46	43 - 45	Biosparge
		TFB-28	10	11/22/17	--	46	43 - 45	Biosparge
		TFB-29	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-30	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-31	10	11/21/17	--	46	43 - 45	Biosparge
TFB-32	10	11/22/17	--	46	43 - 45	Biosparge		
TFB-33	10	11/27/17	--	46	43 - 45	Biosparge		
TFB-34	10	11/21/17	--	46	43 - 45	Biosparge		
TFB-35	10	11/27/17	--	46	43 - 45	Biosparge		
RW-35	10	11/15/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge		
RW-36	10	11/15/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge		
RW-37	10	11/16/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge		
RW-38	10	11/16/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge		
RW-47	10	11/17/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge		
RW-48	10	11/17/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge		
RW-49	10	11/16/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge		
RW-50	10	11/20/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge		

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

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

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

Remediation Area	Location	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function	
Southern Area	Former Truck Fueling Area and Adjacent Water Tank Area	BSP-15	12	11/02/16	--	50.5	48 - 50	Biosparge	
		BSP-16	12	11/03/16	--	50.5	48 - 50	Biosparge	
		BSP-17	12	11/03/16	--	50.5	48 - 50	Biosparge	
		BSP-18	12	11/03/16	--	50.5	48 - 50	Biosparge	
		BSP-19	12	11/02/16	--	50.5	48 - 50	Biosparge	
		BSP-20	12	11/01/16	--	50.5	48 - 50	Biosparge	
		RW-19	13	06/30/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-20	13	06/29/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-21	13	06/30/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-22	13	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-23	13	06/30/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-24	13	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-25	13	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-26	13	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-27	13	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-28	13	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-29	13	06/29/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-30	13	06/27/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-31	13	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-32	13	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-33	13	06/29/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		RW-34	13	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
		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



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

Legend / Notes continued:

TF = Total fluid

TFE = Total fluid extraction

TFB = Total fluids biosparge

TFR = Total fluids recovery

VW/VEW = Vapor extraction well

-- = Information not available

1 = Also referred to as TF-24.

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

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

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

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

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

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

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

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

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

11 = Abandoned on November 16, 2017.

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

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

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

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

16 = Well installation date unknown.

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

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

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

TABLE 2A
Groundwater Extraction and Treatment System Operations Summary - 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)	Discharge Totalizer Reading (gallons)	Groundwater Extracted and Treated Per Day (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
4/1/20	*		321,413	233,402	667,535	1,243,581	1,911,116	554,815	1,546,566	1,941	--	9,947
4/2/20	*		321,413	233,402	667,535	1,245,147	1,912,682	554,815	1,548,508	1,941	--	9,947
4/3/20	*		321,413	233,402	667,535	1,246,713	1,914,248	554,815	1,550,449	1,941	--	9,947
4/4/20	*		321,413	233,402	667,535	1,248,279	1,915,814	554,815	1,552,390	1,941	--	9,947
4/5/20	*		321,413	233,402	667,535	1,249,845	1,917,380	554,815	1,554,332	1,941	--	9,947
4/6/20	*		321,413	233,402	667,535	1,251,411	1,918,946	554,815	1,556,273	1,941	--	9,947
4/7/20	*		321,413	233,402	667,535	1,252,977	1,920,512	554,815	1,558,214	1,941	--	9,947
4/8/20	Technician		321,413	233,402	667,535	1,254,635	1,922,170	554,815	1,560,270	2,056	--	9,947
4/9/20	*		321,413	233,402	667,535	1,255,592	1,923,127	554,815	1,562,409	2,139	--	9,947
4/10/20	*		321,413	233,402	667,535	1,256,549	1,924,084	554,815	1,564,549	2,139	--	9,947
4/11/20	*		321,413	233,402	667,535	1,257,506	1,925,041	554,815	1,566,688	2,139	--	9,947
4/12/20	*		321,413	233,402	667,535	1,258,463	1,925,999	554,815	1,568,827	2,139	--	9,947
4/13/20	*		321,413	233,402	667,535	1,259,420	1,926,956	554,815	1,570,967	2,139	--	9,947
4/14/20	*		321,413	233,402	667,535	1,260,377	1,927,913	554,815	1,573,106	2,139	--	9,947
4/15/20	*		321,413	233,402	667,535	1,261,334	1,928,870	554,815	1,575,246	2,139	--	9,947
4/16/20	Technician		321,413	233,402	667,535	1,262,266	1,929,801	554,815	1,577,327	2,081	--	9,947
4/17/20	*		321,413	233,402	667,535	1,264,160	1,931,695	554,815	1,579,073	1,746	--	9,947
4/18/20	*		321,413	233,402	667,535	1,266,054	1,933,589	554,815	1,580,819	1,746	--	9,947
4/19/20	*		321,413	233,402	667,535	1,267,948	1,935,483	554,815	1,582,565	1,746	--	9,947
4/20/20	*		321,413	233,402	667,535	1,269,842	1,937,377	554,815	1,584,311	1,746	--	9,947
4/21/20	*		321,413	233,402	667,535	1,271,736	1,939,272	554,815	1,586,057	1,746	--	9,947
4/22/20	Technician	1, 2, 3	321,413	233,402	667,535	1,273,314	1,940,849	554,815	1,587,511	1,454	47	9,947
4/23/20	Off line		321,413	--	667,535	1,273,756	1,941,291	321,413	1,588,079	568	--	9,947
4/24/20	Off line		321,413	--	667,535	1,274,199	1,941,734	321,413	1,588,647	568	--	9,947
4/25/20	Off line		321,413	--	667,535	1,274,641	1,942,177	321,413	1,589,215	568	--	9,947
4/26/20	Off line		321,413	--	667,535	1,275,084	1,942,619	321,413	1,589,783	568	--	9,947
4/27/20	Off line		321,413	--	667,535	1,275,526	1,943,062	321,413	1,590,351	568	--	9,947
4/28/20	Off line		321,413	--	667,535	1,275,969	1,943,504	321,413	1,590,919	568	--	9,947
4/29/20	Off line		321,413	--	667,535	1,276,412	1,943,947	321,413	1,591,487	568	--	9,947
4/30/20	Off line		321,413	--	667,535	1,276,854	1,944,389	321,413	1,592,055	568	--	9,947

Cumulative Groundwater Discharged by the GWETS to Date (gallons)							
Period	April	Quarter 1, 2020	Quarter 2, 2020	Quarter 3, 2020	Quarter 4, 2020	2020 to Date	April 1996 to Date
Volume	45,489	234,047	47,430	--	--	281,478	80,004,762

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	April	Quarter 2 to Date	April 1996 to Date
Mass	0.12	0.12	9,946.9

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

Legend / Notes:

- 1 = Collected monthly influent and effluent water samples for laboratory analysis.
- 2 = GW-13 groundwater pump removed
- 3 = System shut down prior to semi-annual groundwater gauging

GWETS = Groundwater extraction and treatment system
 ug/L - Micrograms per liter
 -- = Not applicable

lb = Pounds
 DRO = Diesel range organics

Groundwater extraction wells on line this month: GW-16.

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

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



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-14R Totalizer Reading (gallons)	GWM-31 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from North-East Area (gallons)	Groundwater Extracted from North-West Area (gallons)	Discharge Totalizer Reading (gallons)	Groundwater Extracted and Treated Per Day (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
5/1/20	Off line		321,413	--	--	667,535	1,277,297	1,944,832	321,413	1,592,623	568	--	9,947
5/2/20	Off line		321,413	--	--	667,535	1,277,739	1,945,275	321,413	1,593,191	568	--	9,947
5/3/20	Off line		321,413	--	--	667,535	1,278,182	1,945,717	321,413	1,593,759	568	--	9,947
5/4/20	Off line		321,413	--	--	667,535	1,278,624	1,946,160	321,413	1,594,328	568	--	9,947
5/5/20	Off line		321,413	--	--	667,535	1,279,067	1,946,602	321,413	1,594,896	568	--	9,947
5/6/20	Off line		321,413	--	--	667,535	1,279,510	1,947,045	321,413	1,595,464	568	--	9,947
5/7/20	Off line		321,413	--	--	667,535	1,279,952	1,947,488	321,413	1,596,032	568	--	9,947
5/8/20	Off line		321,413	--	--	667,535	1,280,395	1,947,930	321,413	1,596,600	568	--	9,947
5/9/20	Off line		321,413	--	--	667,535	1,280,837	1,948,373	321,413	1,597,168	568	--	9,947
5/10/20	Off line		321,413	--	--	667,535	1,281,280	1,948,815	321,413	1,597,736	568	--	9,947
5/11/20	Off line		321,413	--	--	667,535	1,281,723	1,949,258	321,413	1,598,304	568	--	9,947
5/12/20	Off line		321,413	--	--	667,535	760,833	1,949,700	321,413	1,598,872	568	--	9,947
5/13/20	Off line		321,413	--	--	667,535	1,282,608	1,950,143	321,413	1,599,440	568	--	9,947
5/14/20	Technician	1, 2, 3	321,413	105,228	--	667,535	1,283,046	1,950,581	321,413	1,600,002	562	--	9,947
5/15/20	*		--	108,952	--	667,535	1,284,585	1,952,121	0	1,604,958	4,956	--	9,947
5/16/20	*		--	112,676	--	667,535	1,286,125	1,953,660	0	1,609,914	4,956	--	9,947
5/17/20	*		--	116,401	--	667,535	1,287,664	1,955,200	0	1,614,870	4,956	--	9,947
5/18/20	Technician	4	--	120,823	321,740	667,535	1,289,493	1,957,028	0	1,620,755	5,885	--	9,947
5/19/20	*		--	124,117	324,284	667,535	1,290,910	1,958,446	0	1,627,640	6,885	--	9,947
5/20/20	*		--	127,410	326,829	667,535	1,292,328	1,959,863	0	1,634,524	6,885	--	9,947
5/21/20	*		--	130,704	329,373	667,535	1,293,746	1,961,281	0	1,641,409	6,885	--	9,947
5/22/20	*		--	133,998	331,917	667,535	1,295,164	1,962,699	0	1,648,294	6,885	--	9,947
5/23/20	*		--	137,291	334,461	667,535	1,296,581	1,964,117	0	1,655,178	6,885	--	9,947
5/24/20	*		--	140,585	337,006	667,535	1,297,999	1,965,535	0	1,662,063	6,885	--	9,947
5/25/20	*		--	143,879	339,550	667,535	1,299,417	1,966,952	0	1,668,947	6,885	--	9,947
5/26/20	*		--	147,172	342,094	667,535	1,300,835	1,968,370	0	1,675,832	6,885	--	9,947
5/27/20	Technician	5	--	149,597	343,967	667,535	1,301,879	1,969,414	0	1,680,900	5,068	610	9,947
5/28/20	*		--	151,529	344,881	667,535	1,302,450	1,969,985	0	1,684,156	3,256	--	9,947
5/29/20	*		--	153,461	345,796	667,535	1,303,021	1,970,556	0	1,687,412	3,256	--	9,947
5/30/20	*		--	155,392	346,710	667,535	1,303,592	1,971,128	0	1,690,668	3,256	--	9,947
5/31/20	*		--	157,324	347,625	667,535	1,304,164	1,971,699	0	1,693,924	3,256	--	9,947

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	May	Quarter 1, 2020	Quarter 2, 2020	Quarter 3, 2020	Quarter 4, 2020	2020 to Date	April 1996 to Date
Volume	101,869	234,047	149,299	--	--	383,346	80,106.631

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	May	Quarter 2 to Date	April 1996 to Date
Mass	0.12	0.25	9,947.0

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

Legend / Notes:

- 1 = GWETS restarted.
- 2 = GW-2 groundwater pump removed
- 3 = GW-14R restarted
- 4 = GWM-31 started
- 5 = Collected monthly influent and effluent water samples for laboratory analysis.

GWETS = Groundwater extraction and treatment system

μg/L - Micrograms per liter

-- = Not applicable

A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit used) from sample collected on January 30, 2020.

Groundwater extraction wells on line this month: GW-14R, GWM-31, GW-16.

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



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

Date	Data Source	Notes	GW-14R Totalizer Reading (gallons)	GWM-31 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from North-East Area (gallons)	Groundwater Extracted from North-West Area (gallons)	Discharge Totalizer Reading (gallons)	Groundwater Extracted and Treated Per Day (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
6/1/20	*		159,256	348,539	667,535	1,304,735	1,972,270	0	1,697,180	9,768	--	9,947
6/2/20	*		161,188	349,454	667,535	1,305,306	1,972,841	0	1,700,436	3,256	--	9,947
6/3/20	*		163,119	350,368	667,535	1,305,877	1,973,413	0	1,703,692	3,256	--	9,947
6/4/20	*		165,051	351,282	667,535	1,306,449	1,973,984	0	1,706,948	3,256	--	9,947
6/5/20	*		166,983	352,197	667,535	1,307,020	1,974,555	0	1,710,204	3,256	--	9,947
6/6/20	*		168,915	353,111	667,535	1,307,591	1,975,127	0	1,713,460	3,256	--	9,947
6/7/20	*		170,846	354,026	667,535	1,308,163	1,975,698	0	1,716,716	3,256	--	9,947
6/8/20	*		172,778	354,940	667,535	1,308,734	1,976,269	0	1,719,972	3,256	--	9,947
6/9/20	Technician		175,039	356,010	667,535	1,309,402	1,976,938	0	1,723,782	3,810	--	9,947
6/10/20	*		178,387	357,042	667,535	1,310,253	1,977,788	0	1,728,629	4,847	--	9,947
6/11/20	*		181,736	358,074	667,535	1,311,104	1,978,639	0	1,733,476	4,847	--	9,947
6/12/20	*		185,085	359,107	667,535	1,311,954	1,979,490	0	1,738,323	4,847	--	9,947
6/13/20	*		188,434	360,139	667,535	1,312,805	1,980,340	0	1,743,170	4,847	--	9,947
6/14/20	*		191,782	361,171	667,535	1,313,656	1,981,191	0	1,748,017	4,847	--	9,947
6/15/20	*		195,131	362,203	667,535	1,314,506	1,982,042	0	1,752,864	4,847	--	9,947
6/16/20	*		198,480	363,235	667,535	1,315,357	1,982,892	0	1,757,711	4,847	--	9,947
6/17/20	*		201,829	364,268	667,535	796,262	1,983,743	0	1,762,558	4,847	--	9,947
6/18/20	*		205,177	365,300	667,535	798,740	1,984,594	0	1,767,405	4,847	--	9,947
6/19/20	*		208,526	366,332	667,535	1,317,909	1,985,444	0	1,772,252	4,847	--	9,947
6/20/20	*		211,875	367,364	667,535	1,318,760	1,986,295	0	1,777,099	4,847	--	9,947
6/21/20	*		215,224	368,396	667,535	1,319,611	1,987,146	0	1,781,946	4,847	--	9,947
6/22/20	*		218,573	369,429	667,535	1,320,461	1,987,996	0	1,786,793	4,847	--	9,947
6/23/20	*		221,921	370,461	667,535	1,321,312	1,988,847	0	1,791,640	4,847	--	9,947
6/24/20	Technician	1	225,259	371,490	667,535	1,322,160	1,989,695	0	1,796,470	4,830	850	9,948
6/25/20	*		228,642	371,501	667,535	1,322,612	1,990,147	0	1,800,002	3,532	--	9,948
6/26/20	*		232,026	371,512	667,535	1,323,065	1,990,600	0	1,803,535	3,532	--	9,948
6/27/20	*		235,410	371,524	667,535	1,323,517	1,991,052	0	1,807,067	3,532	--	9,948
6/28/20	*		238,794	371,535	667,535	1,323,970	1,991,505	0	1,810,599	3,532	--	9,948
6/29/20	*		242,177	371,547	667,535	1,324,422	1,991,957	0	1,814,131	3,532	--	9,948
6/30/20	Technician	2	245,749	371,559	667,535	1,324,900	1,992,435	0	1,817,860	3,729	--	9,948

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	June	Quarter 1, 2020	Quarter 2, 2020	Quarter 3, 2020	Quarter 4, 2020	2020 to Date	April 1996 to Date
Volume	123,936	234,047	273,235	--	--	507,282	80,230,567

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	June	Quarter 2 to Date	April 1996 to Date
Mass	0.67	0.92	9,947.7

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

Legend / Notes:

- 1 = Collected monthly influent and effluent water samples for laboratory analysis.
- 2 = GWETS manually shut down pending additional laboratory analysis.
- Groundwater extraction wells on line this month: GW-14R, GWM-31, GW-16.
- * = Operational values interpolated from chart recorder data or previous monitoring event.

GWETS = Groundwater extraction and treatment system

µg/L - Micrograms per liter

-- = Not applicable

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

lb = Pounds

DRO = Diesel range organics



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)
04/01/20	Offline	1, 2	59,585	--	--	--	--	--	--	2,983,056
04/02/20	Offline		59,585	--	--	--	--	--	--	2,983,056
04/03/20	Technician	3	59,587	517	3.5	96.0	--	80.9	0.0	2,983,056
04/04/20	*		59,610	517	--	--	--	--	--	2,983,057
04/05/20	*		59,634	517	--	--	--	--	--	2,983,059
04/06/20	*		59,657	517	--	--	--	--	--	2,983,061
04/07/20	*		59,680	517	--	--	--	--	--	2,983,063
04/08/20	*		59,703	517	--	--	--	--	--	2,983,065
04/09/20	*		59,727	517	--	--	--	--	--	2,983,066
04/10/20	Technician		59,750	495	4.0	92.0	--	58.2	0.0	2,983,068
04/11/20	*		59,774	495	--	--	--	--	--	2,983,070
04/12/20	*		59,798	495	--	--	--	--	--	2,983,071
04/13/20	*		59,822	495	--	--	--	--	--	2,983,073
04/14/20	*		59,846	495	--	--	--	--	--	2,983,075
04/15/20	Technician	4	59,870	525	4.0	117.0	8.6	87.4	0.0	2,983,077
04/16/20	*		59,894	525	--	--	--	--	--	2,983,079
04/17/20	*		59,918	525	--	--	--	--	--	2,983,080
04/18/20	*		59,942	525	--	--	--	--	--	2,983,082
04/19/20	*		59,966	525	--	--	--	--	--	2,983,084
04/20/20	*		59,990	525	--	--	--	--	--	2,983,086
04/21/20	*		60,014	525	--	--	--	--	--	2,983,088
04/22/20	*		60,038	525	--	--	--	--	--	2,983,090
04/23/20	*		60,062	525	--	--	--	--	--	2,983,091
04/24/20	Technician		60,086	531	3.8	126.0	--	64.7	0.2	2,983,093
04/25/20	*		60,110	531	--	--	--	--	--	2,983,095
04/26/20	*		60,133	531	--	--	--	--	--	2,983,097
04/27/20	*		60,157	531	--	--	--	--	--	2,983,099
04/28/20	*		60,180	531	--	--	--	--	--	2,983,101
04/29/20	*		60,204	531	--	--	--	--	--	2,983,102
04/30/20	*		60,227	531	--	--	--	--	--	2,983,104

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	April	Quarter 2 to Date	April 1996 to Date
Mass	49	49	2,983,104

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

Legend / Notes:

- 1 = System shut down pending lab confirmation.
- 2 = Collected lab confirmation samples.
- 3 = System restarted.
- 4 = Collected monthly influent, after GAC-1, after GAC-2, and Effluent samples for laboratory analysis.
- * = 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
- 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).
- in. Hg = Inches of mercury
- °F = Degrees Fahrenheit
- ppmv = Parts per million by volume
- lb = Pounds



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)
05/01/20	Technician		60,251	521	4.0	112.0	--	59.2	0.0	2,983,107
05/02/20	*		60,276	521	--	--	--	--	--	2,983,111
05/03/20	*		60,301	521	--	--	--	--	--	2,983,114
05/04/20	*		60,326	521	--	--	--	--	--	2,983,117
05/05/20	*		60,351	521	--	--	--	--	--	2,983,121
05/06/20	Technician		60,376	537	3.9	134.0	--	37.5	0.0	2,983,124
05/07/20	*		60,399	537	--	--	--	--	--	2,983,127
05/08/20	*		60,423	537	--	--	--	--	--	2,983,131
05/09/20	*		60,446	537	--	--	--	--	--	2,983,134
05/10/20	*		60,470	537	--	--	--	--	--	2,983,137
05/11/20	*		60,493	537	--	--	--	--	--	2,983,140
05/12/20	*		60,517	537	--	--	--	--	--	2,983,143
05/13/20	*		60,540	537	--	--	--	--	--	2,983,147
05/14/20	*		60,564	537	--	--	--	--	--	2,983,150
05/15/20	Technician	1, 2	60,587	525	3.8	108.0	15	119.4	0.0	2,983,153
05/16/20	*		60,611	525	--	--	--	--	--	2,983,156
05/17/20	*		60,635	525	--	--	--	--	--	2,983,159
05/18/20	*		60,658	525	--	--	--	--	--	2,983,162
05/19/20	*		60,682	525	--	--	--	--	--	2,983,166
05/20/20	*		60,706	525	--	--	--	--	--	2,983,169
05/21/20	*		60,730	525	--	--	--	--	--	2,983,172
05/22/20	*		60,753	525	--	--	--	--	--	2,983,175
05/23/20	*		60,777	525	--	--	--	--	--	2,983,178
05/24/20	*		60,801	525	--	--	--	--	--	2,983,182
05/25/20	*		60,825	525	--	--	--	--	--	2,983,185
05/26/20	*		60,849	525	--	--	--	--	--	2,983,188
05/27/20	*		60,872	525	--	--	--	--	--	2,983,191
05/28/20	Technician		60,896	537	3.8	106.0	--	142.3	0.0	2,983,194
05/29/20	*		60,920	537	--	--	--	--	--	2,983,198
05/30/20	*		60,944	537	--	--	--	--	--	2,983,201
05/31/20	*		60,968	537	--	--	--	--	--	2,983,204

Cumulative Mass TPHg Removed by the VES ^A (lb)			
Period	May	Quarter 2 to Date	April 1996 to Date
Mass	100	149	2,983,204

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

Legend / Notes:

1 = Collected monthly influent, after GAC-1, after GAC-2, and Effluent samples for laboratory analysis.
 2 = Collected individual well vapor samples for laboratory analysis from HW-1, HW-5, HW-7, HW-8, and HW-9.

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

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



TABLE 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)
06/01/20	*		60,993	537	--	--	--	--	--	2,983,223
06/02/20	*		61,017	537	--	--	--	--	--	2,983,228
06/03/20	Technician	1	61,041	557	3.7	124.0	--	126.6	0.0	2,983,233
06/04/20	Offline		61,041	557	--	--	--	--	--	2,983,233
06/05/20	Offline		61,041	557	--	--	--	--	--	2,983,233
06/06/20	Offline		61,041	557	--	--	--	--	--	2,983,233
06/07/20	Offline		61,041	557	--	--	--	--	--	2,983,233
06/08/20	Offline		61,041	557	--	--	--	--	--	2,983,233
06/09/20	Technician	2	61,050	585	3.3	130.0	--	89.0	0.0	2,983,235
06/10/20	*		61,074	585	--	--	--	--	--	2,983,240
06/11/20	*		61,098	585	--	--	--	--	--	2,983,245
06/12/20	*		61,122	585	--	--	--	--	--	2,983,250
06/13/20	*		61,146	585	--	--	--	--	--	2,983,255
06/14/20	*		61,170	585	--	--	--	--	--	2,983,261
06/15/20	*		61,194	585	--	--	--	--	--	2,983,266
06/16/20	*		61,218	585	--	--	--	--	--	2,983,271
06/17/20	*		61,242	585	--	--	--	--	--	2,983,276
06/18/20	*		61,266	585	--	--	--	--	--	2,983,281
06/19/20	*		61,290	585	--	--	--	--	--	2,983,286
06/20/20	*		61,314	585	--	--	--	--	--	2,983,292
06/21/20	*		61,338	585	--	--	--	--	--	2,983,297
06/22/20	Technician	3	61,362	559	3.8	116.0	21	151.4	0.2	2,983,302
06/23/20	Technician		61,387	533	4.4	--	--	--	--	2,983,307
06/24/20	*		61,411	533	--	--	--	--	--	2,983,311
06/25/20	*		61,436	533	--	--	--	--	--	2,983,316
06/26/20	*		61,460	533	--	--	--	--	--	2,983,321
06/27/20	*		61,484	533	--	--	--	--	--	2,983,326
06/28/20	*		61,509	533	--	--	--	--	--	2,983,330
06/29/20	*		61,533	533	--	--	--	--	--	2,983,335
06/30/20	*		61,557	533	--	--	--	--	--	2,983,340

Cumulative Mass TPHg Removed by the VES ^A (lb)			
Period	June	Quarter 2 to Date	April 1996 to Date
Mass	136	284	2,983,340

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

Legend / Notes :

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

-- = Not applicable or not measured

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

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



TABLE 4
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

TABLE 4
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)
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
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

TABLE 4
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)
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
03/27/17	15,16	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	193	150	600	170	600	0.91	2.9	0.42	1.6	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
04/17/17	15	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	138	150	610	170	610	1.1	3.5	0.53	2.0	<0.12	<0.50	<0.12	<0.50	0.23	1.0	0.23	1.0	<0.55	<2.0
05/03/17	15	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	141	120	510	140	510	0.69	2.2	0.58	2.2	0.12	0.51	<0.12	<0.50	0.35	1.5	0.35	1.5	<0.55	<2.0
06/05/17	15	HW-1, HW-3, HW-5	8015M & 8260M	136	110	430	120	430	0.81	2.6	0.40	1.5	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
06/27/17	15,17	HW-1, HW-3, HW-5, VEW-38, VEW-39, VEW-40	8015M & 8260M	--	140	560	160	560	0.38	1.2	0.20	0.75	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
07/19/17		HW-5, HW-7 and VEW-39	8015M & 8260M	199	120	500	140	500	0.75	2.4	0.45	1.7	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
08/09/17	18,19	HW-1, HW-5, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	8015M & 8260M	695	560	2,300	650	2,300	0.69	2.2	0.29	1.1	0.53	2.3	<0.12	<0.50	0.44	1.9	0.44	1.9	<0.55	<2.0
09/07/17	19	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	8015M & 8260M	767	610	2,500	710	2,500	1.2	3.9	0.48	1.8	0.46	2.0	<0.12	<0.50	0.51	2.2	0.51	2.2	<0.55	<2.0
10/12/17	19,20	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	8015M & 8260M	536	370	1,500	430	1,500	1.0	3.2	0.32	1.2	0.41	1.8	0.20	0.88	0.83	3.6	1.0	4.5	<0.55	<2.0
11/02/17	19	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	8015M & 8260M	300	240	970	270	970	0.78	2.5	0.24	0.89	0.28	1.2	<0.12	<0.50	0.51	2.2	0.51	2.2	<0.55	<2.0
12/11/17	19	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	8015M & 8260M	335	270	1,100	300	1,100	0.85	2.7	0.27	1.0	0.21	0.9	<0.12	<0.50	0.37	1.6	0.37	1.6	<0.55	<2.0
01/11/18	21	HW-1, HW-5, HW-7	8015M & 8260M	269	240	970	270	970	1.1	3.4	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
02/12/18	21	HW-1, HW-5, HW-7	8015M & 8260M	148	86	350	88	350	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
03/28/18	21	HW-1, HW-5, HW-7	8015M & 8260M	201	160	670	170	670	0.59	1.9	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
04/02/18	21	HW-1, HW-5, HW-7	8015M & 8260M	191	150	620	160	620	0.25	0.79	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
05/02/18	21	HW-1, HW-5, HW-7	8015M & 8260M	149	110	470	150	470	0.16	0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
06/06/18	21	HW-1, HW-5, HW-7	8015M & 8260M	95	49	200	50	200	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
07/02/18	21	HW-1, HW-5, HW-7	8015M & 8260M	135	120	490	120	490	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
08/06/18	21	HW-1, HW-5, HW-7	8015M & 8260M	134	49	200	48	200	0.3	0.95	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
09/13/18	21	HW-1, HW-5, HW-7	8015M & 8260M	109	49	200	50	200	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
10/29/18	21	HW-1, HW-5, HW-7	8015M & 8260M	118	66	270	59	270	0.44	1.4	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
11/14/18	21	HW-1, HW-5, HW-7	8015M & 8260M	202	200	800	170	800	1.3	4.2	0.69	2.6	<0.12	<0.5	<0.12	<0.5	0.35	1.5	<0.35	<1.5	<0.55	<2.0
12/12/18	21	HW-1, HW-5, HW-7	8015M & 8260M	130	98	400	87	400	0.59	1.9	0.21	0.79	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
01/28/19	21	HW-1, HW-5, HW-7	8015M & 8260M	228	220	880	190	880	1.3	4.0	0.27	1.0	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
02/12/19	21, 22	HW-1, HW-5, HW-7	8015M & 8260M	258	240	1,000	220	1,000	1.0	3.3	0.23	0.88	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
04/03/19	21, 22	HW-1, HW-5, HW-7	8015M & 8260M	394	73	300	65	300	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
11/25/19	23	HW-1, HW-5, HW-7, HW-8, HW-9	8015M & 8260M	164	42	170	38	170	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.1	<0.35	<1.6	<0.55	<2.0

TABLE 4
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)
12/30/19		HW-1, HW-5, HW-7, HW-8, HW-9	8015M & 8260M	39	7.1	29	6.3	29	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
01/15/20		HW-1, HW-5, HW-7, HW-8, HW-9	8015M & 8260M	15	5.4	22	<5.7	22	<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
02/18/20		HW-1, HW-5, HW-7, HW-8, HW-9	8015M & 8260M	12	<4.9	<20	<5.7	<20	<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
02/27/20		HW-1, HW-5, HW-7, HW-8, HW-9	8015 & 8260B	16	<4.9	<20	<5.7	<20	<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
03/16/20	24	HW-1, HW-5, HW-7	8015 & 8260B	105	18.09	74	16	74	<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
04/01/20	25	HW-1, HW-5, HW-7, HW-8, HW-9	8015 & 8260B	47	8.31	34	7.5	34	<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
04/15/20		HW-1, HW-5, HW-7, HW-8, HW-9	8015 & 8260B	87	9.5	39	8.6	39	<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
05/15/20		HW-1, HW-5, HW-7, HW-8, HW-9	8015 & 8260B	119	17	68	15	68	<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
06/22/20		HW-1, HW-5, HW-7, HW-8, HW-9	8015 & 8260B	151	24	98	21	98	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0

Legend / Notes:

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

Influent vapor sample inadvertently not collected during August 2016.

VES = Vapor extraction system

ppmv = Parts per million by volume

GRO = Gasoline range organics

µg/L = Micrograms per liter

- Reported concentrations are shown in bold.

MTBE = Methyl tertiary-butyl ether

-- = Not available or not analyzed

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

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

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

2 = VES restarted.

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

4 = VES manually shut down.

5 = VES restarted on 11/03/14.

6 = Select soil biopiles also on line.

7 = Closed all vapor extraction wells from 05/07/15 to 06/03/15, and 05/25/16 to 06/17/16, respectively, to focus extraction efforts on soil biopiles.

8 = Opened vapor extraction wells VEW-32, VEW-33 and VEW-34.

9 = Additional sample collected for laboratory analysis as part of field instrument correlation study.

10 = Opened vapor extraction wells HW-1, HW-3 and HW-5 on 08/10/15 based on field PID readings (see Table 9A for details).

11 = Closed vapor extraction well VEW-34 on 08/19/15 based on low to non-detectable lab results (see Table 10 for details).

12 = Opened vapor extraction wells HW-1, HW-3 and HW-5 on 06/17/16.

13 = Valves associated with vapor extraction wells HW-1, HW-3, HW-5 and/or HW-7 each set to a partially open position while leaving all other wells closed to focus extraction efforts on soil biopiles.

14 = Resumed vapor extraction from well HW-7 based on field PID readings (see Table 9A for details).

15 = Valves associated with vapor extraction wells HW-1, HW-3, HW-5 and/or HW-7 each set to optimize system in accordance with recent field readings and/or lab data since completion of ex-situ remediation project on 03/20/17.

16 = Additional sample collected for laboratory analysis after disconnecting all soil biopiles and optimizing system on 03/20/17 (i.e., with extraction efforts again focused on in-situ remediation following completion of ex-situ remediation project).

17 = Wells VEW-38, VEW-39 and VEW-40 tied into system during late June 2017 following installation per SGI's March 14, 2017 *Well Replacement Report and Work Plan*.

18 = Wells RW-1, RW-2, RW-7, RW-9, RW-12, RW-13, RW-18, RW-20 through RW-24, RW-26, and RW-28 through RW-33 tied into system during early August 2017 following installation per SGI's June 30, 2017 *Remediation Well Installation Update Report*.

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

20 = Opened dilution valve approximately 10% to reduce carbon usage rate.

21 = Closed dilution valve and focused extraction efforts on relatively low concentration horizontal wells to reduce carbon usage with all other higher concentration vertical wells being connected to the thermal oxidizer (see Table 8 for details).

22 = No sample collected for analysis during March 2019 due to site condition and system operation status.

23 = System restart on 10/30/19 after installation of new blower.

24 = System shut down 3/31/20 due to high effluent value permit exceedence on 3/16/20.

25 = Resampled and restarted system on 4/3/20 upon return to permit compliance.

TABLE 5A
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)
04/01/20	Technician		5,946	924	54	1,452	--	538	26	192,953
04/02/20	*		5,970	924	--	--	--	--	--	193,233
04/03/20	*		5,994	924	--	--	--	--	--	193,513
04/04/20	*		6,017	924	--	--	--	--	--	193,793
04/05/20	*		6,041	924	--	--	--	--	--	194,073
04/06/20	*		6,065	924	--	--	--	--	--	194,352
04/07/20	*		6,089	924	--	--	--	--	--	194,632
04/08/20	*		6,112	924	--	--	--	--	--	194,912
04/09/20	*		6,136	924	--	--	--	--	--	195,192
04/10/20	Technician		6,160	830	58	1450	--	640	26	195,443
04/11/20	*		6,180	830	--	--	--	--	--	195,655
04/12/20	*		6,200	830	--	--	--	--	--	195,866
04/13/20	Technician		6,220	830	--	--	--	--	--	196,078
04/14/20	Technician		6,240	830	--	--	--	--	--	196,289
04/15/20	Technician	1	6,260	928	54	1456	740	606	21	196,525
04/16/20	*		6,285	928	--	--	--	--	--	196,821
04/17/20	*		6,310	928	--	--	--	--	--	197,116
04/18/20	*		6,335	928	--	--	--	--	--	197,412
04/19/20	*		6,360	928	--	--	--	--	--	197,707
04/20/20	Technician		6,385	927	54	1450	--	584	24	198,003
04/21/20	*		6,402	927	--	--	--	--	--	198,200
04/22/20	*		6,425	927	--	--	--	--	--	198,479
04/23/20	*		6,449	927	--	--	--	--	--	198,758
04/24/20	*		6,473	927	--	--	--	--	--	199,037
04/25/20	*		6,496	927	--	--	--	--	--	199,316
04/26/20	*		6,520	927	--	--	--	--	--	199,595
04/27/20	Technician		6,544	927	--	--	--	--	--	199,874
04/28/20	*		6,567	927	--	--	--	--	--	200,153
04/29/20	Technician		6,591	927	--	--	--	--	--	200,432
04/30/20	*		6,614	927	--	--	--	--	--	200,711

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	April	Quarter 2 to Date	January 2018 to Date
Mass	8,016.5	8,016.5	208,551.7

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

Legend / Notes:

1 = Collected monthly influent and effluent samples for laboratory analysis.

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

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

System operating under SCAQMD Permit #G52288

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

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



TABLE 5B
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)
05/01/20	Technician		6,638	921	54	1452	--	542	21.2	201,086
05/02/20	*		6,663	921	--	--	--	--	--	201,482
05/03/20	*		6,688	921	--	--	--	--	--	201,879
05/04/20	*		6,713	921	--	--	--	--	--	202,276
05/05/20	*		6,738	921	--	--	--	--	--	202,673
05/06/20	Technician		6,763	993	53	1456	--	566	13.6	203,101
05/07/20	*		6,786	993	--	--	--	--	--	203,498
05/08/20	*		6,809	993	--	--	--	--	--	203,895
05/09/20	*		6,833	993	--	--	--	--	--	204,293
05/10/20	*		6,856	993	--	--	--	--	--	204,690
05/11/20	*		6,879	993	--	--	--	--	--	205,087
05/12/20	*		6,902	993	--	--	--	--	--	205,485
05/13/20	*		6,926	993	--	--	--	--	--	205,882
05/14/20	*		6,949	993	--	--	--	--	--	206,279
05/15/20	Technician	1	6,972	923	54	1451	960	522	21.0	206,649
05/16/20	*		6,996	923	--	--	--	--	--	207,029
05/17/20	*		7,020	923	--	--	--	--	--	207,410
05/18/20	*		7,044	923	--	--	--	--	--	207,790
05/19/20	*		7,068	923	--	--	--	--	--	208,171
05/20/20	*		7,092	923	--	--	--	--	--	208,551
05/21/20	*		7,116	923	--	--	--	--	--	208,932
05/22/20	*		7,139	923	--	--	--	--	--	209,312
05/23/20	*		7,163	923	--	--	--	--	--	209,693
05/24/20	*		7,187	923	--	--	--	--	--	210,073
05/25/20	*		7,211	923	--	--	--	--	--	210,454
05/26/20	*		7,235	923	--	--	--	--	--	210,834
05/27/20	*		7,259	923	--	--	--	--	--	211,215
05/28/20	Technician		7,283	911	54	1459	--	462	25.2	211,590
05/29/20	*		7,307	911	--	--	--	--	--	211,972
05/30/20	*		7,332	911	--	--	--	--	--	212,354
05/31/20	*		7,356	911	--	--	--	--	--	212,736

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	May	Quarter 2 to Date	January 2018 to Date
Mass	12,025.7	20,042.1	220,577.4

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

Legend / Notes:

1 = Collected monthly influent and effluent samples for laboratory analysis.

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

A = Reading measured using Dwyer DS-300 flow sensor.

B = Concentrations obtained with a calibrated organic vapor analyzer.

C = Concentrations correlated to laboratory data and expressed as hexane.

D = Hydrocarbon removal is calculated using analytical laboratory result for GRO (if not detected, half the detection limit is used) from samples collected this month (laboratory report attached).

NA = Not available

-- = Not applicable or not measured

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

System operating under SCAQMD Permit #G52288

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

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



TABLE 5C
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)
06/01/20			7,380	911	--	--	--	--	--	213,376
06/02/20			7,405	911	--	--	--	--	--	214,015
06/03/20	Technician	1	7,429	950	55	1,449	--	462	23.7	214,682
06/04/20			7,431	950	--	--	--	--	--	214,731
06/05/20			7,433	950	--	--	--	--	--	214,781
06/06/20			7,434	950	--	--	--	--	--	214,830
06/07/20			7,436	950	--	--	--	--	--	214,879
06/08/20			7,438	950	--	--	--	--	--	214,929
06/09/20			7,440	950	--	--	--	--	--	214,978
06/10/20			7,442	950	--	--	--	--	--	215,027
06/11/20			7,443	950	--	--	--	--	--	215,077
06/12/20			7,445	950	--	--	--	--	--	215,126
06/13/20			7,447	950	--	--	--	--	--	215,175
06/14/20			7,449	950	--	--	--	--	--	215,225
06/15/20			7,451	950	--	--	--	--	--	215,274
06/16/20			7,452	950	--	--	--	--	--	215,323
06/17/20	Technician	2	7,454	950	--	--	--	--	--	215,373
06/18/20	Technician		7,456	902	55	1,453	--	704	26.7	215,419
06/19/20			7,480	902	--	--	--	--	--	216,031
06/20/20			7,503	902	--	--	--	--	--	216,642
06/21/20			7,527	902	--	--	--	--	--	217,254
06/22/20	Technician	3	7,550	900	56	1,459	1700	708	24.6	217,864
06/23/20			7,574	900	--	--	--	--	--	218,490
06/24/20			7,598	900	--	--	--	--	--	219,116
06/25/20			7,622	900	--	--	--	--	--	219,742
06/26/20			7,646	900	--	--	--	--	--	220,368
06/27/20			7,671	900	--	--	--	--	--	220,994
06/28/20			7,695	900	--	--	--	--	--	221,619
06/29/20			7,719	900	--	--	--	--	--	222,245
06/30/20			7,743	900	--	--	--	--	--	222,871

Cumulative Mass TPHg Removed by the VES ^A (lb)			
Period	June	Quarter 2 to Date	January 2018 to Date
Mass	10,134.9	30,177.1	230,712.3

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

Legend / Notes:

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

System operating under SCAQMD Permit #G52288

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

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

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

A = Reading measured using Dwyer DS-300 flow sensor.

B = Concentrations obtained with a calibrated organic vapor analyzer.

C = Concentrations correlated to laboratory data and expressed as hexane.

D = Hydrocarbon removal is calculated using analytical laboratory result for GRO (if not detected, half the detection limit is used) from samples collected this month (laboratory report attached).

NA = Not available

-- = Not applicable or not measured

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



TABLE 6
Historical Summary of Analytical Vapor Sampling Results - Influent Thermal Oxidizer VES
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

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

TABLE 6
Historical Summary of Analytical Vapor Sampling Results - Influent Thermal Oxidizer VES
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	VES Wells On Line	Laboratory Analysis Methods	GRO	GRO		GRO as Hexane		Benzene		Ethylbenzene		MTBE		Toluene		o-Xylene		m,p-Xylenes		Total Xylenes	
				(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)
06/06/19	2,6,9	RW-1, -4, -5, -9, -10, -11, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, and -50; VEW-40; TFR-5, -7, -9, -10, -11, -12, -13, -14, -15, -16, -18, -19, -21, -22, -24, -26, -28, -29, -30, -32, -33, TF-17, TFR-18, TFR-19, TFR-22, TFR-25, TF-18, RTF-18-E, RTF-18-NW	8015M & 8260M	5,375	950	3,900	860	3,900	5.3	17	0.25	1.1	<0.55	<2.0	0.21	0.8	<0.12	<0.5	0.46	2.0	0.46	2.0
07/10/19	2,6,9	Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15, TFR-16), (TFR-5, TFR-7, TFR-9, TFR-10, TFR-12); Eastern Area - (RW-1, RW-11, RW-18, RW-13, RW-4, RW-5, RW-9, RW-10, TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Southern Area - (RW-23, RW-30, RW-31, RW-32, VEW-40, RW-26, RW-28, RW-24, RW-27, RW-33, RW-43, RW-22, RW-29, RW-45, RW-35, RW-40, RW-44, RW-36, RW-37, RW-41, RW-42, RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	1,962	2,100	8,500	1,900	8,500	5.3	17	0.37	1.6	<0.55	<2.0	0.58	2.2	0.25	1.1	0.78	3.4	1.03	4.5
08/05/19	6	Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15, TFR-16), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-18), (RW-13), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-23), (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-24, RW-27, RW-33, RW-43), (RW-22, RW-29, RW-45), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	2,620	2,700	11,000	2,500	11,000	6.6	21	0.37	1.6	<0.55	<2.0	0.77	2.9	0.25	1.1	0.94	4.1	1.19	5.2
09/09/19	6	Central Area - (TFR-21, TFR-26, TFR-27, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-23), (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-24, RW-27, RW-33, RW-43), (RW-22, RW-29, RW-45), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	2,180	2,300	9,600	2,100	9,600	5.0	16	1.0	4.4	<0.55	<2.0	0.72	2.7	0.28	1.2	1.6	6.9	7.18	8.1
10/31/19		Central Area - (TFR-21, TFR-26, TFR-27, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13, RW-14), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	2,176	3,400	14,000	3,100	14,000	5.6	18	0.92	4.0	<0.55	<2.0	0.61	2.3	0.46	2.0	2.2	9.7	2.66	12
11/20/19		Central Area - (TFR-21, TFR-26, TFR-27, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13, RW-14), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	1,290	3,200	13,000	2,800	13,000	2.0	6.5	0.83	3.6	<0.55	<2.0	0.53	2.0	0.39	1.7	1.3	5.8	1.69	7.5
12/16/19		Central Area - (TFR-21, TFR-26, TFR-27, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13, RW-14), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	1,566	2,300	9,600	2,100	9,600	5.0	16	1.0	4.4	<0.55	<2.0	0.72	2.7	0.28	1.2	1.6	6.9	1.88	8.1
1/15/2020		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-7), (RW-13, RW-14), (RW-4, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	1,446	2,400	10,000	2,300	10,000	2.20	7.10	0.69	3.00	<1.1	<4	0.93	3.50	0.62	2.70	1.70	7.40	2.32	10

TABLE 6
Historical Summary of Analytical Vapor Sampling Results - Influent Thermal Oxidizer VES
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	VES Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		GRO as Hexane		Benzene		Ethylbenzene		MTBE		Toluene		o-Xylene		m,p-Xylenes		Total Xylenes	
					(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)
2/18/2020		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-7), (RW-13, RW-14), (RW-4, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	996	1,900	7,800	1,700	7,800	2.10	6.80	0.55	2.40	<.55	<2	0.80	3.00	0.55	2.40	1.40	6.20	1.95	8.6
3/16/2020		Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TFR-29, TFR-32, TFR-35, TFR-36, TFR-37), (TFR-17, TFR-18, RFR-19, TFR-22, TFR-25), (TFR-11, TFR-13, TFR-14, TFR-15), (TFR-5, TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1, RW-6, RW-15, RW-16, RW-17), (VEW-32, VEW-37, RW-2, RW-7, RW-11), (VEW-33, VEW-36, RW-8, RW-12, RW-18), (VEW-34, VEW-35, RW-13, RW-14), (RW-3, RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-19, RW-20, RW-22, RW-29, RW-45), (RW-35, RW-38, RW-39, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42, RW-46), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	864	1,198	4,900	313	1,100	1.94	6.20	0.41	1.80	<.55	<2	0.74	2.80	0.48	2.10	1.22	5.30	1.7	7.4
4/15/2020		Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TFR-29, TFR-32, TFR-35, TFR-36, TFR-37), (TFR-17, TFR-18, RFR-19, TFR-22, TFR-25), (TFR-11, TFR-13, TFR-14, TFR-15), (TFR-5, TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1, RW-6, RW-15, RW-16, RW-17), (VEW-32, VEW-37, RW-2, RW-7, RW-11), (VEW-33, VEW-36, RW-8, RW-12, RW-18), (VEW-34, VEW-35, RW-13, RW-14), (RW-3, RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-19, RW-20, RW-22, RW-29, RW-45), (RW-35, RW-38, RW-39, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42, RW-46), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	606	830	3,400	740	3,400	0.94	3.00	0.18	0.80	<.55	<2	0.42	1.60	0.25	1.10	0.55	2.40	0.8	3.5
5/15/2020		Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-17, TFR-18, TFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-33), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	522	1,100	4,600	960	4,600	0.78	2.50	0.28	1.20	<.55	<2	0.48	1.80	0.37	1.60	0.88	3.80	1.25	5.4
6/22/2020		Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-17, TFR-18, TFR-19), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-33), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	708	1,900	7,700	1,700	7,700	1.50	4.90	0.20	0.86	<.55	<2	0.32	1.20	0.30	1.30	0.60	2.60	0.9	3.9

Legend / Notes:

- VES = Vapor extraction system
- GRO = Gasoline range organics
- MTBE = Methyl tertiary-butyl ether
- OVA = Organic Vapor Analyzer (calibrated or correlated to Hexane)
- ppmv = Parts per million by volume
- µg/L = Micrograms per liter
- <1 = Not detected at or above the Method Reporting Limit (MRL) shown.
- = Not available or not analyzed

- Reported concentrations are shown in bold.

- 1 = Temporary thermal oxidizer VES started on 01/08/18.
- 2 = VES operations limited to daytime hours due to noise concerns from nearby residents.
- 3 = Noise abatement measures implemented in an effort to address concerns from nearby residents.
- 4 = Vapor extraction wells RW-3 through RW-6, RW-8, RW-11, RW-12, and RW-14 through RW-17 brought online 02/14/18 following the completion of installation and tie-in activities per SGI's June 30, 2017 *Remediation Well Installation Update Report*.
- 5 = No sample collected for analysis during February 2018 due to site condition and system operation status.
- 6 = Measured individual well concentrations and opened and/or closed select vapor extraction wells (see Table 9A through 9D for details).
- 7 = Vapor extraction wells RW-19, RW-20, RW-22, RW-24, RW-27 through RW-30, RW-32, RW-33, RW-35 through RW-38, and RW-40 through RW-50 brought online 6/27/18 following the completion of tie-in activities per SGI's June 30, 2017 report.
- 8 = Temporary thermal oxidizer VES shutdown on 01/08/2019.
- 9 = Permanent thermal oxidizer VES started on 03/13/2019.



TABLE 7A
Summary of LNAPL Removal in Well GMW-62 - Second Quarter 2020
 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)
04/08/20	--	34.77	--	0	0.3	0.0	144.1	986.4
04/16/20	--	34.63	--	0	1.0	0.1	144.3	987.4
04/24/20	--	34.92	--	0	0.1	0.0	144.3	987.6
04/29/20	--	33.97	--	0	0.6	0.1	144.4	988.1
05/14/20	--	33.43	--	0	2.0	0.3	144.7	990.1
05/19/20	--	34.46	--	0	0.1	0.0	144.7	990.2
05/29/20	--	34.36	--	0	0.7	0.1	144.8	990.9
06/25/20	--	34.83	--	0	1.5	0.2	145.0	992.4

Cumulative for the Reporting Period:	0	6.2	0.9	0.9	6.2
Cumulative Beginning January 2014 ^A:	112	226	33	145	992

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 7B
Summary of LNAPL Removal in Well GMW-68 - Second Quarter 2020
 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)
04/08/20	--	33.99	--	0	1.9	0.3	79	542
04/16/20	--	33.82	--	0	1.0	0.1	79	543
04/24/20	--	34.14	--	0	2.1	0.3	80	545
04/29/20	--	33.33	--	0	1.4	0.2	80	546
05/14/20	--	33.10	--	0	0.6	0.1	80	547
05/19/20	--	33.71	--	0	1.6	0.2	80	548
05/29/20	--	33.60	--	0	2.4	0.4	80	551
06/17/20	--	33.98	--	0	1.5	0.2	81	552
Cumulative for the Reporting Period:				0	12.5	1.8	1.8	12.5
Cumulative Beginning October 2016 ^A:				34	327	48	81	552

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 7C
Summary of LNAPL Removal in Well GMW-7 - Second Quarter 2020
 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)
No Pumping/Skimming from Product Recovery System Well During 2nd Quarter 2020								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning December 2014 ^A:				8.0	136	20	28	190

Legend / Notes:

LNAPL = Light non-aqueous phase liquids feet btc = Feet below top of casing Sock = LNAPL absorbent sock -- = Not applicable
 A = Cumulative LNAPL removed since December 2014. LNAPL removed prior to December 2014 can be found in previously submitted Remediation Progress Reports.



TABLE 7D
Summary of LNAPL Removal in Well TF-19 - Second Quarter 2020
 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)
No Pumping/Skimming from Product Recovery System Well During 2nd Quarter 2020								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning June 2015 ^A:				6.75	199	29	36	245

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 7E
Summary of LNAPL Removal in Well TFR-9 - Second Quarter 2020
 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 2020								
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 7F
Summary of LNAPL Removal in Well GMW-18 - Second Quarter 2020
 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 2020								
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 7G
Summary of LNAPL Removal in Well TFR-12 - Second Quarter 2020
 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)
04/17/20	35.99	36.00	0.01	2.1	--	--	284	1,946
06/17/20	--	34.23	0.00	0.0	--	--	284	1,946
Cumulative for the Reporting Period:				2	0	0	2	14
Cumulative Beginning April 2018 ^{A,B}:				284	0	0	284	1,946

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 7H
Summary of LNAPL Removal in Well TFR-14 - Second Quarter 2020
 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)
04/17/20	34.71	34.72	0.01	2.1	--	--	2	14
Cumulative for the Reporting Period:				2	0	0	2	14
Cumulative Beginning April 2018 ^{A,B}:				2	0	0	2	14

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 71
Summary of LNAPL Removal in Well TF-15 - Second Quarter 2020
 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 2020								
Cumulative for the Reporting Period ^B:				0	0	0	0	0
Cumulative Beginning October 2016 ^A:				187	53	7.7	195	1,333

Legend / Notes:

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

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

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



TABLE 7J
Summary of LNAPL Removal in Well TFR-15 - Second Quarter 2020
 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 2020								
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 7K
Summary of LNAPL Removal in Well TF-16 - Second Quarter 2020
 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 2020								

Cumulative for the Reporting Period:	0	0	0	0	0
Cumulative Beginning March 2017 - June 2019 ^B:	323	0.0	0.0	323	2,210
Cumulative Beginning October 2016 ^A:	333	36	5.2	338	2,316

Legend / Notes:

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

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

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



TABLE 7L
Summary of LNAPL Removal in Well GW-14R - Second Quarter 2020
 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 2020								
Cumulative for the Reporting Period:				0	0	0	0	0
Cumulative Beginning October 2018 ^{A,B}:				360	0	0	360	2,464

Legend / Notes:

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

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

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



TABLE 7M
Summary of LNAPL Removal in Well TFR-18 - Second Quarter 2020
 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)
04/10/20	33.24	33.92	0.68	2.1	--	--	16.1	110.0
04/17/20	33.39	33.54	0.15	2.1	--	--	18.1	124.2
06/17/20	33.91	34.01	0.10	0.0	--	--	18.1	124.2
Cumulative for the Reporting Period:				4	0	0	4	28
Cumulative Beginning October 2018 ^{A,B}:				18	0	0	18	124

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 7N
Summary of LNAPL Removal in Well TFR-22 - Second Quarter 2020
 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)
04/10/20	--	--	--	0.0	--	--	223	1,526
04/17/20	32.32	32.50	0.18	2.1	--	--	225	1,540
05/05/20	33.38	33.94	0.56	2.1	--	--	227	1,554
05/14/20	32.52	32.77	0.25	2.1	--	--	229	1,569
06/17/20	--	33.32	0.00	0.0	--	--	229	1,569
Cumulative for the Reporting Period:				6	0	0	6	43
Cumulative Beginning October 2018 ^{A,B}:				229	0	0	229	1,569

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 70
Summary of LNAPL Removal in Well TFR-24 - Second Quarter 2020
 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)
04/17/20	32.81	32.87	0.06	2.1	--	--	110	753
06/17/20	--	32.90	0.00	0.0	--	--	110	753
Cumulative for the Reporting Period:				2	0	0	2	14
Cumulative Beginning October 2018 ^{A,B}:				110	0	0	110	753

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; pump manually shutdown on February 14, 2020 due to insufficient yield).



TABLE 7P
Summary of LNAPL Removal in Well TFR-29 - Second Quarter 2020
 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)
04/17/20	32.91	35.96	3.05	4.1	--	--	834	5,704
05/05/20	32.59	36.35	3.76	6.2	--	--	840	5,747
05/14/20	32.78	36.72	3.94	6.2	--	--	846	5,789
06/09/20	32.76	34.14	1.38	2.1	--	--	848	5,804
06/17/20	32.88	34.95	2.07	4.1	--	--	852	5,832
06/25/20	32.27	35.64	3.37	6.2	--	--	858	5,874
06/30/20	33.04	35.13	2.09	4.1	--	--	863	5,903
Cumulative for the Reporting Period:				33	0	0	33	227
Cumulative Beginning April 2018 ^{A,B,C}:				863	0	0	863	5,903

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).

C = Skimmer shutdown on February 21, 2020 due to insufficient yield.



TABLE 7Q
Summary of LNAPL Removal in Well TFR-33 - Second Quarter 2020
 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 2020								
Cumulative for the Reporting Period:				0	0	0	0	0
Cumulative Beginning October 2018 ^{A,B}:				123	0	0	123	842

Legend / Notes:

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

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

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



TABLE 7R
Summary of LNAPL Removal in Well RTF-18-E - Second Quarter 2020
 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)
04/21/20	31.98	32.31	0.33	2.1	--	--	679.1	4,647.1
06/17/20	33.20	33.26	0.06	0.0	--	--	679.1	4,647.1

Cumulative for the Reporting Period:	2	0	0	2	14
Cumulative Beginning May 2016 - July 2016 ^A:	48	0	0	48	325
Cumulative Beginning August 2016 - September 2019 ^B:	593	0	0	593	4,061
Cumulative Beginning May 2016 ^A:	679	0	0	679	4,647

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); pump shutdown on February 14, 2020 due to insufficient yield.

TABLE 7S
Summary of LNAPL Removal in Well RTF-18-NW - Second Quarter 2020
 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)
04/21/20	31.96	32.04	0.08	2.1	--	--	3,040	20,801
06/17/20	--	32.87	0.00	0.0	--	--	3,040	20,801

Cumulative for the Reporting Period:	2	0	0	2	14
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:	3,040	0	0	3,040	20,801

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 7T
Summary of LNAPL Removal in Well RTF-18-N - Second Quarter 2020
 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 2020								

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 7U
Summary of LNAPL Removal in Well TF-18 - Second Quarter 2020
 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)
04/21/20	31.34	31.95	0.61	2.1	--	--	2,316	15,849
06/17/20	32.66	32.96	0.30	0.0	--	--	2,316	15,849

Cumulative for the Reporting Period:	2	0	0	2	14
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:	2,271	307	45	2,316	15,849

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 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 7V
Summary of LNAPL Removal in Well RTF-18-NNW - Second Quarter 2020
 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 2020								

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:	63	0	0	63	428
Cumulative Beginning April 2016 ^A:	117	0	0	117	801

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 7W
Summary of LNAPL Removal in Well RTF-18-W - Second Quarter 2020
 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 2020								

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

Legend / Notes:

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

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

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

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

TABLE 8
Historical Summary of Analytical Groundwater Sampling Results - Influent GWETS
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

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

TABLE 8
Historical Summary of Analytical Groundwater Sampling Results - Influent GWETS
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
02/03/12		--	--	120	340	--	--	--	--	--	--	--	--	--	--
02/17/12		--	--	--	--	10	<0.50	1.5	7.4	1.2	15	1.2	0.39	<2.0	<2.0
02/24/12		--	--	180	--	26	<0.50	1.0	7.0	1.2	<10	1.2	0.41	<2.0	<2.0
03/02/12		--	--	--	--	23	<0.50	1.4	11	2.4	8.7	1.4	0.47	<2.0	<2.0
03/06/12		--	--	--	--	28	<0.50	1.0	9.0	1.7	13	1.1	0.37	<2.0	<2.0
06/15/12		--	--	--	--	39	13	17	88	26	<10	1.3	0.52	<2.0	<2.0
08/31/12		--	--	820	940	--	--	--	--	--	--	--	--	--	--
09/27/12		--	--	5,300	3,800	--	--	--	--	--	--	--	--	--	--
10/23/12		--	--	--	--	67	60	110	460	140	<10	<0.50	<2.0	<2.0	<2.0
01/31/13		--	--	3,600	--	--	--	--	--	--	--	--	--	--	--
05/01/13		--	--	6,300	5,500	20	4.7	8.0	41	14	4.8	0.56	<2.0	<2.0	<2.0
07/12/13		--	--	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
08/20/13		--	--	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
12/19/13		--	--	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
02/07/14		--	--	1,500	2,300	--	--	--	--	--	--	--	--	--	--
03/21/14		--	--	--	--	61	5.1	23	150	45	<10	0.87	<2.0	<2.0	<2.0
05/29/14	1	--	8015M & 8260B	--	--	29	1.0	30	180	45	<10	1.0	<2.0	<2.0	<2.0
07/09/14	2	GW-15, GW-16	8015M & 8260B	720	1,800	82	3.8	27	110	31	<7.0	<0.40	<0.50	<0.40	<0.30
08/13/14		GW-15, GW-16	8015M & 8260B	150	1,500	57	3.7	30	130	36	<7.0	0.77	<0.50	<0.40	<0.30
09/17/14		GW-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-15, GW-16	8015M & 8260B	560	3,600	31	2.2	40	240	54	<7.0	0.6	<0.50	<0.40	<0.30
11/17/14	3,4,1	GW-15, GW-16	8015M & 8260B	260	1,400	21	0.71	10	62	18	<7.0	<0.40	<0.50	<0.40	<0.30
12/17/14	4,1	GW-15, GW-16	8015M & 8260B	190	880	23	0.66	8.8	48	14	<7.0	<0.40	<0.50	<0.40	<0.30
01/14/15	4,1	GW-15, GW-16	8015M & 8260B	4,600	3,800	150	2.8	29	130	37	<7.0	<0.40	<0.50	<0.40	<0.30
02/20/15	4,1	GW-15, GW-16	8015M & 8260B	2,500	8,100	230	9.8	220	880	220	<7.0	0.45	<0.50	<0.40	<0.30
03/27/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	620	980	9.9	<0.30	2.7	18	5.9	<7.0	1.0	<0.50	<0.40	<0.30

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 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)
05/11/15	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	330	16	5.2	5.9	37	14	<7.0	0.58 J	<0.50	<0.40	<0.30
06/03/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	150	340	20	6.6	12	22	25	<7.0	0.52 J	<0.50	<0.40	<0.30
07/09/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	180	610	<0.20	<0.30	<0.20	<0.40	<0.30	<7.0	0.62 J	<0.50	<0.40	<0.30
08/17/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	430	<40	<0.20	<0.30	<0.20	0.95 J	<0.30	<7.0	0.71 J	<0.50	<0.40	<0.30
09/03/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	86 J	570	5.9	0.37 J	3.7	10	14	<7.0	0.45 J	<0.50	<0.40	<0.30
10/05/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	500	7.3	<0.30	8.7	35	15	<7.0	0.73 J	<0.50	<0.40	<0.30
11/02/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	420	3,400	5.1	<0.30	17	130	22	<7.0	0.85 J	<0.50	<0.40	<0.30
12/07/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	710	3,800	0.70	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
01/12/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	2,000	510	14	<0.30	3.6	25	7.0	<7.0	<0.40	<0.50	<0.40	<0.30
02/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	72 J	180	13	<0.30	0.53	2.7	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
03/14/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	270	1,100	0.91	<0.30	<0.20	1.6	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
04/04/16	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	76 J	100	0.99	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
05/04/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	170	470	<0.20	<0.30	<0.20	1.3	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
06/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	280	75 J	4.9	<0.30	<0.20	<0.40	<0.30	<7.0	0.43 J	<0.50	<0.40	<0.30
07/11/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	330	<40	4.7	<0.30	<0.20	<0.40	<0.30	<7.0	0.79 J	<0.50	<0.40	<0.30
08/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	3.7	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
09/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	2.7	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
10/12/16	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	230	<40	4.5	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
11/01/16	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	120	52 J	3.1	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
12/05/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	450	51 J	<0.20	<0.30	<0.20	<0.40	<0.30	<7.0	0.60 J	<0.50	<0.40	<0.30
01/09/17		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	150	<40	4.4	<0.30	<0.20	<0.40	<0.30	<7.0	0.58 J	<0.50	<0.40	<0.30
02/06/17	6	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	110	<40	3.5	<0.30	0.41 J	0.60 J	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
03/15/17	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	68 J	<40	4.3	<0.30	<0.20	<0.40	<0.30	<7.0	0.60 J	<0.50	<0.40	<0.30
04/05/17	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	74 J	<40	8.4	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
05/03/17		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	72 J	<40	4.3	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
06/05/17		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	62 J	<40	5.0	<0.30	<0.20	0.50 J	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30



TABLE 8
Historical Summary of Analytical Groundwater Sampling Results - Influent GWETS
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
07/19/17	5	GW-2, GW-15, GW-16	8015M & 8260B	75 J	<40	3.4	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
08/02/17		GW-2, GW-15, GW-16	8015M & 8260B	80 J	<40	4.0	<0.30	<0.20	<0.40	<0.30	<7.0	0.88 J	<0.50	<0.40	<0.30
09/13/17		GW-2, GW-15, GW-16	8015M & 8260B	84 J	<40	<0.20	<0.30	<0.20	<0.40	<0.30	<7.0	0.69 J	<0.50	<0.40	<0.30
10/16/17		GW-2, GW-15, GW-16	8015M & 8260B	64 J	<40	3.7	<0.30	<0.20	<0.40	<0.30	<7.0	0.54 J	<0.50	<0.40	<0.30
11/13/17		GW-2, GW-15, GW-16	8015M & 8260B	78 J	<40	4.5	<0.30	<0.20	<0.40	<0.30	<7.0	0.54 J	<0.50	<0.40	<0.30
12/11/17	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	2.8	<0.30	<0.20	<0.40	<0.30	8.8 J	<0.40	<0.50	<0.40	<0.30
01/11/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	73 J	<40	2.0	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
02/26/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	130	<40	5.3	<0.30	<0.20	<0.40	<0.30	<7.0	0.49 J	<0.50	<0.40	<0.30
03/20/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	4.4	<0.30	<0.20	<0.40	<0.30	<7.0	0.47 J	<0.50	<0.40	<0.30
04/02/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	65 J	<40	2.9	<0.30	<0.20	<0.40	<0.30	<7.0	0.50 J	<0.50	<0.40	<0.30
05/02/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	130	<40	2.5	<0.30	<0.20	<0.40	<0.30	<7.0	0.74 J	<0.50	<0.40	<0.30
06/04/18		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	0.74	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
07/02/18	7,8	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	1.1	<0.30	<0.20	<0.40	<0.30	<7.0	0.41 J	<0.50	<0.40	<0.30
08/06/18		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	3.1	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
09/13/18		GW-2, GW-15, GW-16	8015M & 8260B	<60	<40	0.38 J	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
10/29/18		GW-15, GW-16	8015M & 8260B	<60	<40	2.4	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
11/14/18		GW-15, GW-16	8015M & 8260B	<60	<40	2.0	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
12/17/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 624	170	<100	<0.5	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0
01/08/19		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	--	<40	1.4	<0.30	<0.20	<0.40	<0.30	<7.0	0.92 J	<0.50	<0.40	<0.30
02/06/19	9	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	1.4	<0.30	<0.20	0.52 J	<0.30	<7.0	0.49 J	<0.50	<0.40	<0.30
01/30/20	10,11	GW-13, GW-15, GW-16	8015M	790	--	--	--	--	--	--	--	--	--	--	--
03/11/20	10,11	GW-15, GW-16	8015M	370	--	<5	<5	<5	<1	<0.5	<10	<0.5	<0.5	<0.5	<0.5
04/22/20		GW-16	8015M	<94	<50	--	--	--	--	--	--	--	--	--	--
05/27/20		GW-16, GWM-31, GW-14R	8015M & 8260B	610	490	46	<5	<5	<10	<5	<10	<5	<5	<1.0	<1.0
06/24/20		GW-16, GWM-31, GW-14R	8015M & 8260B	850	640	79	<5	<5	<10	<5	12	6.4	<5	<1.0	<1.0

TABLE 8
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)

Legend / Notes:

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

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

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

- Reported concentrations are shown in bold.

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



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

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



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

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

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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Depth for Horizontal Wells or Interval in Feet Below Grade for Vertical Wells					
			HW-1	HW-3 **	HW-5	HW-7 **	HW-8	HW-9
			25	25	25	25	60	220
07/16/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -50	--	--	--	--	--	--
07/30/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -50	--	--	--	--	--	--
08/29/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -50	--	--	--	--	--	--
12/03/18	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	--	--	--	--	--
01/25/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	1,127	--	375	474	--	--
02/12/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	1,845	--	696	718	--	--
03/06/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	1,309	--	1,115	939	--	--
03/12/19	15,17	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	--	--	--	--	--
03/20/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	591	--	234	730	--	--
03/26/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	--	--	--	--	--
04/09/19	15,18	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	>15,000	--	1,541	1,725	--	--
11/25/19	19,20	HW-1, HW-5, HW-7, HW-8, HW-9	730	--	501	730	--	1,820
12/16/19	15	HW-1, HW-5, HW-7, HW-8, HW-9	4,900	--	1,336	1,215	431	1,375
01/15/20	15	HW-1, HW-5, HW-7, HW-8, HW-9	184	--	6	10	976	22
02/05/20	15	HW-1, HW-5, HW-7, HW-8, HW-9	371	--	5	124	6	843
02/14/20	15	HW-1, HW-5, HW-7, HW-8, HW-9	397	--	24	366	4	805
02/18/20	15	HW-1, HW-5, HW-7, HW-8, HW-9	139	--	4	149	3	530
02/27/20	15	HW-1, HW-5, HW-7, HW-8, HW-9	155	--	29	21	2	1,192
03/04/20	15	HW-1, HW-5, HW-7, HW-8, HW-9	2,188	--	611	461	61	774
03/16/20	15	HW-1, HW-5, HW-7, HW-8, HW-9	1,520	--	241	186	21	4,344
03/24/20	15	HW-1, HW-5, HW-7, HW-8, HW-9	339	--	57	156	6	2,681
04/01/20	15	HW-1, HW-5, HW-7, HW-8, HW-9	132	--	5	87	4	1,982

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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Depth for Horizontal Wells or Interval in Feet Below Grade for Vertical Wells					
			HW-1	HW-3 **	HW-5	HW-7 **	HW-8	HW-9
			25	25	25	25	60	220
04/10/20	15	HW-1, HW-5, HW-7, HW-8, HW-9	172	--	5.1	145	0	378
04/15/20	15	HW-1, HW-5, HW-7, HW-8, HW-9	143	--	4	286	3	768
04/24/20	15	HW-1, HW-5, HW-7, HW-8, HW-9	83	--	16	337	4	780
05/01/20	15	HW-1, HW-5, HW-7, HW-8, HW-9	108	--	1	15000+	1	15000+
05/06/20	15	HW-1, HW-5, HW-7, HW-8, HW-9	99	--	18	15000+	2	15000+
05/15/20	15	HW-1, HW-5, HW-7, HW-8, HW-9	199	--	8	697	7	1,058
05/28/20	15	HW-1, HW-5, HW-7, HW-8, HW-9	105	--	5	636	5	1,841
06/03/20	15	HW-1, HW-5, HW-7, HW-8, HW-9	88	--	3	475	4	968
06/09/20	15	HW-1, HW-5, HW-7, HW-8, HW-9	73	--	3	399	1	853
06/22/20	15	HW-1, HW-5, HW-7, HW-8, HW-9	140	--	71	493	3	957
06/23/20	15, 21	HW-1, HW-7, HW-9	--	--	--	--	--	--

Legend / Notes:

GRO = Gasoline range organics ppmv = Parts per million by volume OVA = Organic Vapor Analyzer -- = Readings not taken VES = Vapor extraction system
 Concentrations measured using calibrated field OVA.

- 1 = Initial readings on carbon VES restart (off line since manually shut down on 05/29/14).
- 2 = Readings prior to well optimization.
- 3 = Readings following well optimization (closed wells VEW-35, VEW-36 and VEW-37 based on field OVA readings).
- 4 = Offline wells temporarily opened for monitoring, then returned to closed position.
- 5 = Readings collected following slightly opening well field valve to vapor extraction system.
- 6 = Select soil biopiles also online.
- 7 = Closed select vapor wells to focus extraction efforts on soil biopiles.
- 8 = Opened vapor extraction wells HW-1, HW-3 and HW-5 based on field OVA readings.
- 9 = Closed vapor extraction well VEW-34 on 8/19/15 based on low to non-detectable lab results (see Table 7 for details).
- 10 = Valved down vapor extraction wells HW-1, HW-3 and/or HW-5 while leaving all other wells closed to focus extraction efforts on soil biopiles.
- 11 = Opened vapor extraction well HW-7 based on field OVA reading.
- 12 = Ex-situ remediation project completed/all soil biopiles disconnected and well valves subsequently set to optimize carbon VES in accordance with recent field OVA readings and/or lab data.
- 13 = Wells VEW-38, VEW-39 and VEW-40 tied into carbon VES during late June 2017 following installation per SGI's March 14, 2017 Well Replacement Report and Work Plan.
- 14 = For full list of wells online, see SGI's November 15, 2017 *Remediation Status Report - Third Quarter 2017* and February 15, 2018 *Remediation Status Report - Fourth Quarter 2017*, respectively.
- 15 = See Tables 9B, 9C and 9D for applicable RW on line well field vapor readings.
- 16 = Wells VEW-38, VEW-39 and VEW-40 disconnected from carbon VES and tied into thermal oxidizer VES upon 01/08/18 startup (see SGI's May 15, 2018 *Remediation Status Report - First Quarter 2018* for details).
- 17 = New Thermal Oxidizer system startup on 3/13/19.
- 18 = VES Carbon system shutdown on 4/18/19 to replace blower.
- 19 = HW-3 abandoned and replaced on 6/7/19 and 6/10/19 and replaced with new horizontal wells HW-8 and HW-9. Nw HW's connected to VES Carbon system on 7/16/19.
- 20 = VES Carbon system restart on 11/21/19 after new blower installation.
- 19 = HW-3 abandoned and replaced on 6/7/19 and 6/10/19 and replaced with new horizontal wells HW-8 and HW-9.
- 21 = Closed off trunklines 8 and 5 due to low PID readings. Trunklines 7 and 9 opened 100%

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

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



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

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

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

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

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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade																							
			Truckline #1, VECV #1					Truckline #1, VECV #2					Truckline #1, VECV #3					Truckline #1, VECV #4				Truckline #1, VECV #5				
			RW-1 15 - 35	RW-6 17 - 37	RW-15 18 - 38	RW-16 14 - 34	RW-17 19 - 39	VEW-32 10 - 25	VEW-37 10 - 25	RW-2 13 - 33	RW-7 17 - 37	RW-11 16 - 36	VEW-33 10 - 25	VEW-36 10 - 25	RW-8 18.5 - 38.5	RW-12 14 - 34	RW-18 18 - 38	VEW-34 10 - 25	VEW-35 10 - 25	RW-13 15 - 35	RW-14 14 - 34	RW-3 17 - 37	RW-4 14 - 34	RW-5 14 - 34	RW-9 15 - 35	RW-10 14 - 34
06/05/19	3	RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	574	--	--	--	--	--	--	--	10	--	--	--	--	420	--	--	3,420	--	--	776	1,083	4,210	1,143	
07/23/19	3	(RW-1), (RW-11), (RW-18), (RW-13), (RW-4, RW-5, RW-9, RW-10)	643	--	--	--	--	--	--	6	--	--	--	--	130	--	--	724.0	--	--	851	805	2,750	1,238		
08/26/19	3,7	(RW-1), (RW-18), (RW-13), (RW-4, RW-5, RW-9, RW-10)	678	2	3	19	3	--	--	33	52	5	--	40.0	37	7	7	13.0	7.0	1,520	1,380	522	430	512	1,455	502
09/23/19	3	(RW-1), (RW-18), (RW-13), (RW-4, RW-5, RW-9, RW-10)	682	--	--	--	--	--	--	--	--	--	--	--	--	--	--	177	258	306	179	145	679	637		
12/03/19	3	(RW-1), (RW-13, RW-14), (RW-4, RW-5, RW-9, RW-10)	4	2	2	--	--	--	--	2	434	--	--	--	--	10	6	226	124	--	28	--	116	146		
01/08/20	3	(RW-1), (RW-7), (RW-13, RW-14), (RW-4, RW-9, RW-10)	1,050	--	--	--	--	--	--	466	--	--	--	--	--	--	--	630	184	--	360	--	1,720	900		
03/02/20	3, 7	(RW-1, RW-6, RW-15, RW-16, RW-17), (VEW-32, VEW-37, RW-2, RW-7, RW-11), (VEW-33, VEW-36, RW-8, RW-12, RW-18), (VEW-34, VEW-35, RW-13, RW-14), (RW-3, RW-4, RW-5, RW-9, RW-10)	1,156	--	--	--	--	--	2	1,370	262	--	--	2	1,024	2	14	2	2	88	128	46	202	8	836	746
04/30/20		(RW-1), (RW-2, RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10)	694	--	--	--	--	--	10	84	--	--	--	514	--	--	--	110	164	148	188	--	2,158	710		
05/21/20		(RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10)	794	--	--	--	--	--	--	56	--	--	--	245	--	--	--	135	98	108	164	--	1,530	620		

Legend / Notes:

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

Concentrations measured using calibrated field OVA.

- 1 = Wells RW-1, RW-2, RW-7, RW-9, RW-12, RW-13 and RW-18 initially tied into carbon VES during early August 2017 following installation per SGI's June 30, 2017 *Remediation Well Installation Update Report*.
- 2 = For full list of wells on line, see SGI's November 15, 2017 *Remediation Status Report - Third Quarter 2017* and *February 15, 2018 Remediation Status Report - Fourth Quarter 2017*, respectively.
- 3 = See Tables 9A, 9B and 9D for applicable HW, VEW and RW on line well field vapor readings.
- 4 = Wells RW-1, RW-2, RW-7, RW-9, RW-12, RW-13 and RW-18 disconnected from carbon VES and tied into thermal oxidizer VES upon 01/08/18 startup.
- 5 = Wells RW-3 through RW-6, RW-8, RW-10, RW-11, and RW-14 through RW-17 tied into thermal oxidizer VES during mid-February 2018 following installation per SGI's June 30, 2017 *Remediation Well Installation Update Report*.
- 6 = New Thermal Oxidizer system startup on 3/13/19.
- 7 = Closed wells were opened to check for rebound concentrations.

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

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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade																																			
			Trunkline #2, VECV #6		Trunkline #2, VECV #7					Trunkline #2, VECV #8				Trunkline #2, VECV #9					Trunkline #2, VECV #10					Trunkline #2, VECV #11					Trunkline #2, VECV #12					Trunkline #2, VECV #13				
			RW-21	RW-23	VEW-39	RW-30	RW-31	RW-32	RW-34	VEW-38	VEW-40	RW-26	RW-28	RW-24	RW-25	RW-27	RW-33	RW-43	RW-19	RW-20	RW-22	RW-29	RW-45	RW-35	RW-38	RW-39	RW-40	RW-44	RW-36	RW-37	RW-41	RW-42	RW-46	RW-47	RW-48	RW-49	RW-50	
			13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	14 - 33	15 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	15 - 33	13 - 33	13 - 33	13 - 33	15 - 33	13 - 33	13 - 33	13 - 33	15 - 33	13 - 33	
08/09/17	1,2	HW-1, HW-5, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	160	787	--	6,550	7,165	820	--	--	4,340	8,420	1,525	--	--	1,230	--	129	1,775	620	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
09/07/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	110	141	--	8,240	3,400	715	--	--	3,290	8,080	1,423	--	--	836	--	58	1,379	1,123	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
10/12/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	165	340	--	5,800	5,200	955	--	--	3,880	9,190	1,200	--	--	900	--	220	1,800	818	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
11/02/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	140	250	--	7,330	4,300	1,060	--	--	2,900	6,400	1,770	--	--	620	--	170	1,410	909	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
12/11/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	120	230	--	6,400	3,900	700	--	--	3,400	7,170	1,605	--	--	510	--	190	1,660	764	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
03/14/18		HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	80	320	--	2,900	1,730	800	--	--	1,800	3,100	950	--	--	180	--	280	840	660	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
06/27/18	3	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -50	55	1,896	--	32	80	421	80	--	1,821	5,000	459	89	1,215	843	--	43	42	2,595	2,563	--	416	134	24	1,782	--	452	1,509	849	3,040	--	191	886	728	56		
07/30/18	3	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -51	--	--	--	--	1,630	1,253	--	--	3,261	>15,000	1,383	--	767	1,283	--	--	2,928	1,341	--	522	--	--	778	--	2,166	1,930	--	>15,000	--	3,968	672	1,008	692			
08/29/18	3	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -52	--	475	--	4,160	3,378	1,715	1,630	--	>15,000	2,127	>15,000	1,320	--	699	1,324	--	--	2,558	1,721	--	658	--	--	856	--	2,616	2,049	4,925	>15,000	--	4,460	641	2,359	674		
12/03/18	3	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	389	--	4,373	4,284	--	3,378	--	--	>15,000	857	--	2,685	1,013	--	--	--	362	--	--	532	--	--	538	--	1,507	1,123	>15,000	>15,000	--	--	596	61	309		
03/27/19	3	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	402	--	1,613	3,764	1,013	4,284	--	>15,000	316	4,400	124	--	214	975	--	--	402	--	--	399	--	--	1,116	--	961	715	5,575	>15,000	--	>15,000	549	2,740	--		
05/08/19	3	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	14	--	--	--	283	3,764	--	--	--	--	--	7	--	--	--	569	172	--	--	--	--	14	94	--	--	>15,000	248	--	1,107	709	2,740	--			
05/31/19	3	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	13	--	1,326	896	325	--	--	246	3,960	85	--	80	181	--	--	493	223	--	--	--	--	--	--	--	--	--	--	--	--	42	--	--			
06/05/19		HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	177	--	--	--	--	--	--	--	--	--	1,414	--	384	639	1,107	581	--			
07/22/19		(RW-23), (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-24, RW-27, RW-33, RW-43), (RW-22, RW-29, RW-45), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	23	--	827	679	293	--	2,250	370	3,880	145	--	75	205	61	--	634	311	65	123	--	--	203	224	461	245	1,743	1,465	--	383	780	1,175	688			
08/26/19	7	(RW-23), (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-24, RW-27, RW-33, RW-43), (RW-22, RW-29, RW-45), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	4	11	10	431	407	331	15	25	2,460	229	2,440	154	12	64	189	42	10	10	505	211	59	98	74	7	135	179	235	153	986	813	75	397	794	950	630	
09/23/19		(RW-23), (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-24, RW-27, RW-33, RW-43), (RW-22, RW-29, RW-45), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	12	--	453	340	325	--	23	1,670	233	1,752	89	--	47	180	44	--	--	578	320	29	101	--	--	126	15	316	264	1,113	750	--	147	313	128	267	
12/04/19		(RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	0	0	8	392	226	160	18	18	1,838	314	2,454	10	14	4	140	8	--	--	--	--	120	2	4	170	24	344	216	1,126	638	28	270	504	80	400		
01/08/20	3	(RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	--	--	630	330	260	--	<20	1,920	222	2,700	--	--	--	144	--	--	--	--	94	--	--	104	--	352	280	1,100	600	--	330	640	84	316			
03/05/20	3, 7	(RW-21, RW-23), (VEW-39, RW-30, RW-31, RW-32, RW-34), (VEW-38, VEW-40, RW-26, RW-28), (RW-24, RW-25, RW-27, RW-33, RW-43), (RW-19, RW-20, RW-22, RW-29, RW-45), (RW-35, RW-38, RW-39, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42, RW-46), (RW-47, RW-48, RW-49, RW-50)	0	0	4	454	536	240	0	8	1,945	470	3,940	4	4	0	126	4	4	4	508	346	2	46	0	0	80	2	270	182	1,192	688	4	292	520	196	294	
05/01/20		(RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	--	--	388	254	186	--	--	1,720	354	1,860	--	--	141	--	--	284	246	--	2	--	--	96	--	259	134	1,252	572	--	302	997	155	235			
05/21/20		(RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	--	--	375	248	188	--	--	1,650	405	2,478	--	--	102	--	--	170	82	--	20	--	--	70	--	186	132	1,156	622	--	230	352	212	224			

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 SG's June 30, 2017 Remediation Well Installation Update Report.
 - 2 = For full list of wells on line, see SG's November 15, 2017 Remediation Status Report - Third Quarter 2017 and February 15, 2018 Remediation Status Report - Fourth Quarter 2017, respectively.
 - 3 = See Tables 9A, 9B and 9C for applicable HW, VEW and RW on line well field vapor readings.
 - 4 = Wells RW-20 through RW-24, RW-26, and RW-28 through RW-33 disconnected from carbon VES and tied into thermal oxidizer VES upon 01/08/18 startup (see SG'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 SG's July 2018 Well Installation Completion Report.
 - 6 = New Thermal Oxidizer system startup on 3/13/19.
 - 7 = Closed wells were opened to check for rebound concentrations.
- * = Carbon VES only through 2017 and also includes thermal oxidizer VES wells online after 2017.



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

Well ID	Sample Date	Notes	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		MTBE		
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	
HW-1	07/09/14	1	8015M & 8260M	69	23	96	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0	
	10/23/14			3.3	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0	
	04/27/15			1,455	830	3,400	1.1	3.5	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	08/10/15			1,947	2,700	11,000	1.0	3.3	<0.13	<0.50	0.25	1.1	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	02/08/16			520	440	1,800	0.88	2.8	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	04/06/16			420	340	1,400	1.0	3.2	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	01/18/17			2	80	88	310	0.59	1.9	0.18	0.67	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	11/02/17				346	240	1,000	0.59	1.9	<0.13	<0.50	0.15	0.66	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	02/12/18				60	27	110	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	03/28/18				167	180	730	0.34	1.1	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/06/18				--	110	450	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	02/12/19				1,845	810	3,300	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	11/25/19				730	200	820	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	02/18/20	139		24	98	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0		
HW-3 *	07/09/14	1	20	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0		
	10/23/14		20	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0		
	04/27/15		138	66	270	0.28	0.9	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	08/10/15		28	7.3	30	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	01/18/17	2	17	8.5	30	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
HW-5	07/09/14	1	140	46	190	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0		
	10/23/14		2.9	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0		
	04/27/15		400	290	1,200	0.17	0.55	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	0.30	1.3	<0.55	<2.0		
	08/10/15		676	930	3,800	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	02/08/16		300	320	1,300	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	04/06/16		260	210	870	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	08/08/16		190	120	480	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	01/18/17		2	180	85	300	0.34	1.1	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	11/02/17			105	39	160	0.21	0.7	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	02/12/18			75	90	370	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	03/28/18			91	140	560	0.63	2.0	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	08/06/18			--	100	410	0.50	1.6	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	02/12/19			696	270	1,100	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0	
	11/25/19	501		170	710	0.56	1.8	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0		
02/18/20	4	<4.9	<20	<0.16	<0.50	<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		

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-7 *	03/28/18		8015M & 8260M	270	190	760	0.59	1.9	0.21	0.79	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	08/06/18			--	210	840	1.30	4.2	0.80	3.00	0.12	0.53	0	1	0	2	<0.55	<2.0	
	02/12/19			696	240	1,000	2.30	7.2	0.88	3.30	0.14	0.60	0	1	0	2	<0.55	<2.0	
	11/25/19			730	240	1,000	0.53	1.7	0.42	1.60	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	02/18/20			149	16	64	<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-8	11/25/19	8		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/18/20			3	<4.9	<20	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0	
HW-9	11/25/19	8		1,820	390	1,600	<0.16	<0.5	<0.13	<0.50	0.25	1.1	0.35	1.50	0.94	4.10	<0.55	<2.0	
	02/18/20			530	320	1,300	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0	
VEW-32	07/09/14	1		154	132	540	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0	
	10/23/14			191	19	76	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0	
	04/27/15			210	320	1,300	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	08/10/15			456	460	1,900	0.66	2.1	<0.13	<0.50	0.23	1.0	<0.12	<0.50	0.46	2.0	<0.55	<2.0	
	02/08/16			160	130	550	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	04/06/16			60	17	68	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	06/27/17			9.0	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
VEW-33	07/09/14	1		10	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0	
	10/23/14			22	6.6	27	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0	
	04/27/15			324	270	1,100	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	08/10/15			334	290	1,200	0.50	1.6	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	0.32	1.4	<0.55	<2.0	
	02/08/16			220	270	1,100	0.38	1.2	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	04/06/16			380	340	1,400	0.50	1.6	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	0.25	1.1	<0.55	<2.0	
	06/27/17			5.8	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
VEW-34	07/09/14	1		4.2	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0	
	10/23/14			8.0	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0	
	04/27/15			115	44	180	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	08/10/15			63	14	57	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	06/27/17			7.0	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
VEW-35	07/09/14	1		5.5	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0	
	10/23/14			28	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0	
	04/27/15		4.8	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	08/10/15		16.4	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	06/27/17		4.5	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
VEW-36	07/09/14	1	6.4	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0		
	10/23/14		9.1	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0		
	04/27/15		5.7	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	08/10/15		2.2	8.1	33	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	06/27/17		6.7	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
VEW-37	07/09/14	1	20	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0		
	10/23/14		151	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0		
	04/27/15		2.4	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	08/10/15		3.9	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	06/27/17		5.7	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
VEW-38	06/27/17	3	331	37	150	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	07/27/17		--	490	2,000	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		

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-38	09/07/17	4	8015M & 8260M	480	440	1,800	<0.16	<0.50	<0.13	<0.50	0.17	0.74	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/18			51	8.3	34	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-39	06/27/17	3		130	37	150	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	07/27/17			--	1,100	4,300	0.41	1.3	<0.13	<0.50	0.78	3.4	<0.12	<0.50	0.62	2.7	<0.55	<2.0
VEW-40	09/07/17	4		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
	06/27/17			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
RW-1	06/27/18	5		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
	08/09/17			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
RW-2	09/07/17	5		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
	08/09/17			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
RW-3	03/14/18	6		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
	08/09/17			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
	03/14/18			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-5	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
RW-9	08/09/17	5		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	
	08/16/17		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	
RW-20	09/07/17	4	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		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		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		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	

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-24	06/27/18	4	8015M & 8260M	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
RW-33	08/16/17	5		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

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

Legend / Notes continued:

ppmv = Parts per million by volume

µg/L = Micrograms per liter

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

-- = Not measured

- Reported concentrations are shown in bold.

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

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

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

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

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

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

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

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

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

TABLE 11A
Biosparge System Operations Summary - 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-dP (in WC)	Sparge Total Pressure (psig)	Sparge Total Temperature (°F)
04/01/20	*		7032.9	--	--	--	--	7.9	--	--
04/02/20	*		7057.1	--	--	--	--	7.9	--	--
04/03/20	*		7081.3	--	--	--	--	7.9	--	--
04/04/20	*		7105.5	--	--	--	--	7.9	--	--
04/05/20	*		7129.7	--	--	--	--	7.9	--	--
04/06/20	*		7153.9	--	--	--	--	7.9	--	--
04/07/20	*		7178.1	--	--	--	--	7.9	--	--
04/08/20	Technician		7202.3	11	210	84	9	8.0	8	80
04/09/20	*		7225.6	--	--	--	--	8.0	--	--
04/10/20	*		7248.9	--	--	--	--	8.0	--	--
04/11/20	*		7272.2	--	--	--	--	8.0	--	--
04/12/20	*		7295.5	--	--	--	--	8.0	--	--
04/13/20	*		7318.8	--	--	--	--	8.0	--	--
04/14/20	*		7342.1	--	--	--	--	8.0	--	--
04/15/20	*		7365.4	--	--	--	--	8.0	--	--
04/16/20	Technician		7388.7	10	210	90	8	7.6	8	88
04/17/20	*		7412.7	--	--	--	--	7.6	--	--
04/18/20	*		7436.7	--	--	--	--	7.6	--	--
04/19/20	*		7460.7	--	--	--	--	7.6	--	--
04/20/20	*		7484.7	--	--	--	--	7.6	--	--
04/21/20	*		7508.6	--	--	--	--	7.6	--	--
04/22/20	*		7532.6	--	--	--	--	7.6	--	--
04/23/20	*		7556.6	--	--	--	--	7.6	--	--
04/24/20	Technician		7580.6	9	225	108	7	8.0	7	105
04/25/20	*		7594.4	--	--	--	--	8.0	--	--
04/26/20	*		7608.1	--	--	--	--	8.0	--	--
04/27/20	*		7621.9	--	--	--	--	8.0	--	--
04/28/20	*		7635.7	--	--	--	--	8.0	--	--
04/29/20	*		7649.5	--	--	--	--	8.0	--	--
04/30/20	*		7663.2	--	--	--	--	8.0	--	--

Legend / Notes:

System operating under SCAQMD Various Locations Permit #G52288

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

Central Area - (TFB-15, -16, -17, -18, -19, -22, -25), (TFB-20, -23, -24, -30, -33), (TFB-29, -32, -35, -36, -37, -38), (TFB-7, -9, -10, -11, -12, -13, -14), (TFB-21, -26, -27, -28, -31, -34), (BSP-25, -26, -28, -29, -30), (BSP-21, -22, -23, -24, -27), (TFB-1, -2, -4, -5, -6, -8). Eastern Area - (RW-1, -6, -15, -16, -17), (BSP-10, -11, RW-2, -7, -11), (BSP-12, -13, RW-3, -8, -12, -18), (BSP-14, RW-4, -5, -9, -10, -13, -14); Southern Area - (BSP-19, -20, RW-21, -23, -26), (BSP-17, -18, RW-30, -31, -32, -34), (BSP-15, -16, RW-19, -20, -25, -28), (RW-22, -24, -27, -29, -33, -43), (RW-36, -37, -41, -42, -46), (RW-47, -48, -49, -50).

psig = pounds per square inch

in. WC = inches of water column

°F = Degrees Fahrenheit

NA = Not available

HE = Heat Exchanger

-- = Not applicable or not measured

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



TABLE 11B
Biosparge System Operations Summary - 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)
05/01/20	Technician		7677.0	11	220	94	7	8.9	7.5	90
05/03/20	*		7753.8	--	--	--	--	8.9	--	--
05/04/20	*		7773.0	--	--	--	--	8.9	--	--
05/05/20	*		7792.3	--	--	--	--	8.9	--	--
05/06/20	*		7811.5	--	--	--	--	8.9	--	--
05/07/20	*		7830.8	--	--	--	--	8.9	--	--
05/08/20	Technician		7850.0	10	225	112	8	8.5	7.0	100
05/09/20	*		7874.4	--	--	--	--	8.5	--	--
05/10/20	*		7898.8	--	--	--	--	8.5	--	--
05/11/20	*		7923.2	--	--	--	--	8.5	--	--
05/12/20	*		7947.5	--	--	--	--	8.5	--	--
05/13/20	*		7971.9	--	--	--	--	8.5	--	--
05/14/20	Technician		7996.3	8	220	103	5	8.5	6.0	95
05/15/20	*		8009.4	--	--	--	--	8.5	--	--
05/16/20	*		8022.5	--	--	--	--	8.5	--	--
05/17/20	*		8035.7	--	--	--	--	8.5	--	--
05/18/20	*		8048.8	--	--	--	--	8.5	--	--
05/19/20	Technician		8061.9	9	220	105	7	8.6	7.5	95
05/20/20	*		8085.7	--	--	--	--	8.6	--	--
05/21/20	*		8109.6	--	--	--	--	8.6	--	--
05/22/20	*		8133.4	--	--	--	--	8.6	--	--
05/23/20	*		8157.2	--	--	--	--	8.6	--	--
05/24/20	*		8181.0	--	--	--	--	8.6	--	--
05/25/20	*		8204.9	--	--	--	--	8.6	--	--
05/26/20	*		8228.7	--	--	--	--	8.6	--	--
05/27/20	Technician		8252.5	9	230	110	7	8.0	6.0	105
05/28/20	*		8260.6	--	--	--	--	8.0	--	--
05/29/20	*		8268.7	--	--	--	--	8.0	--	--
05/30/20	*		8276.8	--	--	--	--	8.0	--	--
05/31/20	*		8285.0	--	--	--	--	8.0	--	--

Legend / Notes:

System operating under SCAQMD Various Locations Permit #G52288

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

Central Area - (TFB-15, -16, 17, -18, -19, -22, -25), (TFB-20, -23, -24, -30, -33), (TFB-29, -32, -35, -36, -37, -38), (TFB-7, -9, -10, -11, -12, -13, -14), (TFB-21, -26, -27, -28, -31, -34), (BSP-25, -26, -28, -29, -30), (BSP-21, -22, -23, -24, -27), (TFB-1, -2, -4, -5, -6, -8). **Eastern Area** - (RW-1, -6, -15, -16, -17), (BSP-10, -11, RW-2, -7, -11), (BSP-12, -13, RW-3, -8, -12, -18), (BSP-14, RW-4, -5, -9, -10, -13, -14); **Southern Area** - (BSP-19, -20, RW-21, -23, -26), (BSP-17, -18, RW-30, -31, -32, -34), (BSP-15, -16, RW-19, -20, -25, -28), (RW-22, -24, -27, -29, -33, -43), (RW-35, -38, -39, -40), (RW-36, -37, -41, -42, -46), (RW-47, -48, -49, -50).

psig = pounds per square inch

in. WC = inches of water column

°F = Degrees Fahrenheit

NA = Not available

HE = Heat Exchanger

-- = Not applicable or not measured

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



TABLE 11C
Biosparge System Operations Summary - 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)
06/01/20	*		8195.3	--	--	--	--	8.0	--	--
06/02/20	*		8209.5	--	--	--	--	8.0	--	--
06/03/20	*		8223.7	--	--	--	--	8.0	--	--
06/04/20	*		8237.9	--	--	--	--	8.0	--	--
06/05/20	*		8252.2	--	--	--	--	8.0	--	--
06/06/20	*		8266.4	--	--	--	--	8.0	--	--
06/07/20	*		8280.6	--	--	--	--	8.0	--	--
06/08/20	*		8294.8	--	--	--	--	8.0	--	--
06/09/20	*		8309.1	--	--	--	--	8.0	--	--
06/10/20	*		8323.3	--	--	--	--	8.0	--	--
06/11/20	*		8337.5	--	--	--	--	8.0	--	--
06/12/20	*		8351.8	--	--	--	--	8.0	--	--
06/13/20	*		8366.0	--	--	--	--	8.0	--	--
06/14/20	*		8380.2	--	--	--	--	8.0	--	--
06/15/20	*		8394.4	--	--	--	--	8.0	--	--
06/16/20	*		8408.7	--	--	--	--	8.0	--	--
06/17/20	Technician		8422.9	9	225	100	7	8.0	6.5	95
06/18/20	*		8446.2	--	--	--	--	8.0	--	--
06/19/20	*		8469.5	--	--	--	--	8.0	--	--
06/20/20	*		8492.8	--	--	--	--	8.0	--	--
06/21/20	*		8516.1	--	--	--	--	8.0	--	--
06/22/20	*		8539.4	--	--	--	--	8.0	--	--
06/23/20	Technician		8562.7	8	205	88	5	6.0	5.0	87
06/24/20	*		8587.2	--	--	--	--	6.0	--	--
06/25/20	*		8611.8	--	--	--	--	6.0	--	--
06/26/20	*		8636.3	--	--	--	--	6.0	--	--
06/27/20	*		8660.9	--	--	--	--	6.0	--	--
06/28/20	*		8685.4	--	--	--	--	6.0	--	--
06/29/20	*		8709.9	--	--	--	--	6.0	--	--
06/30/20	*		8734.5	--	--	--	--	6.0	--	--

Legend / Notes:

System operating under SCAQMD Various Locations Permit #G52288

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

Central Area - (TFB-15, -16, 17, -18, -19, -22, -25), (TFB-20, -23, -24, -30, -33), (TFB-29, -32, -35, -36, -37, -38), (TFB-7, -9, -10, -11, -12, -13, -14), (TFB-21, -26, -27, -28, -31, -34), (BSP-25, -26, -28, -29, -30), (BSP-21, -22, -23, -24, -27), (TFB-1, -2, -4, -5, -6, -8) **Eastern Area** - (RW-1, -6, -15, -16, -17), (BSP-10, -11, RW-2, -7, -11), (BSP-12, -13, RW-3, -8, -12, -18), (BSP-14, RW-4, -5, -9, -10, -13, -14); **Southern Area** - (BSP-19, -20, RW-21, -23, -26), (BSP-17, -18, RW-30, -31, -32, -34), (BSP-15, -16, RW-19, -20, -25, -28), (RW-22, -24, -27, -29, -33, -43), (RW-35, -38, -39, -40), (RW-36, -37, -41, -42, -46), (RW-47, -48, -49, -50).

psig = pounds per square inch

in. WC = inches of water column

°F = Degrees Fahrenheit

NA = Not available

HE = Heat Exchanger

-- = Not applicable or not measured

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



APPENDIX A

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS



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

April 03, 2020

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333442 / 0D01012**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 04/01/20 15:26 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333442
Date Received: 04/01/20
Date Reported: 04/03/20

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

VES Influent	0D01012-01	Vapor	5	04/01/20 10:30	04/01/20 15:26
VES Effluent	0D01012-02	Vapor	2	04/01/20 10:28	04/01/20 15:26

VOCs BTEX/MTBE Vapor GC/MS

VES Influent	0D01012-01	Vapor	5	04/01/20 10:30	04/01/20 15:26
VES Effluent	0D01012-02	Vapor	2	04/01/20 10:28	04/01/20 15:26

VOCs Gasoline Range Organics Vapor

VES Influent	0D01012-01	Vapor	5	04/01/20 10:30	04/01/20 15:26
VES Effluent	0D01012-02	Vapor	2	04/01/20 10:28	04/01/20 15:26

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333442
Date Received: 04/01/20
Date Reported: 04/03/20
Sampled: 04/01/20
Prepared: 04/01/20
Analyzed: 04/01/20

VES Influent

0D01012-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.50	ug/L	0.5	<0.16	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.5	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2	<0.55	ppmv	0.55
Toluene	<0.50	ug/L	0.5	<0.13	ppmv	0.13
o-Xylene	<0.50	ug/L	0.5	<0.12	ppmv	0.12
m,p-Xylenes	<1.0	ug/L	1	<0.23	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	97.6 %	70-140
Dibromofluoromethane	91.0 %	70-140
Toluene-d8	95.7 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333442
Date Received: 04/01/20
Date Reported: 04/03/20
Sampled: 04/01/20
Prepared: 04/01/20
Analyzed: 04/01/20

VES Effluent

0D01012-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.25	ug/L	0.5	<0.08	ppmv	0.16
Ethylbenzene	<0.25	ug/L	0.5	<0.06	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<1.0	ug/L	2	<0.28	ppmv	0.55
Toluene	<0.25	ug/L	0.5	<0.07	ppmv	0.13
o-Xylene	<0.25	ug/L	0.5	<0.06	ppmv	0.12
m,p-Xylenes	<0.50	ug/L	1	<0.12	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	101 %	70-140
Dibromofluoromethane	91.1 %	70-140
Toluene-d8	96.1 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333442
Date Received: 04/01/20
Date Reported: 04/03/20
Sampled: 04/01/20
Prepared: 04/02/20
Analyzed: 04/02/20

VES Influent

0D01012-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	34	ug/L	20	8.31	ppmv	4.89
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		101 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333442
Date Received: 04/01/20
Date Reported: 04/03/20
Sampled: 04/01/20
Prepared: 04/02/20
Analyzed: 04/02/20

VES Effluent

0D01012-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.89	ppmv	4.89
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		103 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333442
Date Received: 04/01/20
Date Reported: 04/03/20
Units: ppmv

Date Sampled:	04/01/20	04/01/20	
Date Prepared:	04/02/20	04/02/20	
Date Analyzed:	04/02/20	04/02/20	
AA ID No:	0D01012-01	0D01012-02	
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	7.5	<5.7	5.7
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333442
Date Received: 04/01/20
Date Reported: 04/03/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0D0118 - *** DEFAULT PREP ***</i>										
Blank (B0D0118-BLK1)					Prepared & Analyzed: 04/01/20					
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	47.6		ug/L	50		95.3	70-140			
<i>Surrogate: Dibromofluoromethane</i>	46.1		ug/L	50		92.1	70-140			
<i>Surrogate: Toluene-d8</i>	46.7		ug/L	50		93.4	70-140			
LCS (B0D0118-BS1)					Prepared & Analyzed: 04/01/20					
Benzene	23.1	0.50	ug/L	20		116	75-125			
Ethylbenzene	23.8	0.50	ug/L	20		119	75-125			
Methyl-tert-Butyl Ether (MTBE)	38.3	2.0	ug/L	40		95.8	75-125			
Toluene	22.4	0.50	ug/L	20		112	75-125			
o-Xylene	22.1	0.50	ug/L	20		110	75-125			
m,p-Xylenes	45.9	1.0	ug/L	40		115	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	48.3		ug/L	50		96.6	70-140			
<i>Surrogate: Dibromofluoromethane</i>	45.6		ug/L	50		91.2	70-140			
<i>Surrogate: Toluene-d8</i>	49.2		ug/L	50		98.4	70-140			
LCS Dup (B0D0118-BSD1)					Prepared & Analyzed: 04/01/20					
Benzene	23.2	0.50	ug/L	20		116	75-125	0.216	30	
Ethylbenzene	22.9	0.50	ug/L	20		114	75-125	4.11	30	
Methyl-tert-Butyl Ether (MTBE)	45.7	2.0	ug/L	40		114	75-125	17.7	30	
Toluene	21.5	0.50	ug/L	20		108	75-125	3.87	30	
o-Xylene	21.9	0.50	ug/L	20		109	75-125	0.910	30	
m,p-Xylenes	44.8	1.0	ug/L	40		112	75-125	2.36	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	47.2		ug/L	50		94.3	70-140			
<i>Surrogate: Dibromofluoromethane</i>	42.5		ug/L	50		85.0	70-140			
<i>Surrogate: Toluene-d8</i>	47.1		ug/L	50		94.3	70-140			
Duplicate (B0D0118-DUP1)					Source: 0D01012-01 Prepared & Analyzed: 04/01/20					

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333442
Date Received: 04/01/20
Date Reported: 04/03/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0D0118 - *** DEFAULT PREP ***</i>										
Duplicate (B0D0118-DUP1) Continued Source: 0D01012-01 Prepared & Analyzed: 04/01/20										
Benzene	<0.50	0.50	ug/L		<0.50				30	
Ethylbenzene	<0.50	0.50	ug/L		<0.50				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	<0.50	0.50	ug/L		<0.50				30	
m,p-Xylenes	<1.0	1.0	ug/L		<1.0				30	
<i>Surrogate: 4-Bromofluorobenzene</i>	49.0		ug/L	50		98.0	70-140			
<i>Surrogate: Dibromofluoromethane</i>	45.5		ug/L	50		91.0	70-140			
<i>Surrogate: Toluene-d8</i>	47.6		ug/L	50		95.1	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B0D0220 - *** DEFAULT PREP ***</i>										
Blank (B0D0220-BLK1) Prepared & Analyzed: 04/02/20										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	51.9		ug/L	50		104	70-130			
LCS (B0D0220-BS1) Prepared & Analyzed: 04/02/20										
Gasoline Range Organics (GRO)	472	20	ug/L	500		94.4	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	58.2		ug/L	50		116	70-130			
LCS Dup (B0D0220-BSD1) Prepared & Analyzed: 04/02/20										
Gasoline Range Organics (GRO)	431	20	ug/L	500		86.2	75-125	9.04	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	52.5		ug/L	50		105	70-130			
Duplicate (B0D0220-DUP1) Source: 0D01012-01 Prepared & Analyzed: 04/02/20										
Gasoline Range Organics (GRO)	27.0	20	ug/L		34.5			24.3	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	50.9		ug/L	50		102	70-130			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0D0220 - *** DEFAULT PREP ***</i>										
Blank (B0D0220-BLK1) Prepared & Analyzed: 04/02/20										
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B0D0220-DUP1) Source: 0D01012-01 Prepared & Analyzed: 04/02/20										

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333442
Date Received: 04/01/20
Date Reported: 04/03/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0D0220 - *** DEFAULT PREP ***</i>										
Duplicate (B0D0220-DUP1) Continued Source: 0D01012-01 Prepared & Analyzed: 04/02/20										
GRO as Hexane	5.92	5.7	ppmv		7.51			23.7	30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333442
Date Received: 04/01/20
Date Reported: 04/03/20

Special Notes

A handwritten signature in black ink, appearing to be 'VA' or similar, written over a horizontal line.

Viorel Vasile
Operations Manager



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

April 30, 2020

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333473 / 0D15014**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 04/15/20 16:05 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

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: A5333473
Date Received: 04/15/20
Date Reported: 04/30/20

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

VES Influent	0D15014-01	Vapor	5	04/15/20 09:37	04/15/20 16:05
VES Effluent	0D15014-02	Vapor	5	04/15/20 09:32	04/15/20 16:05

VOCs BTEX/MTBE Vapor GC/MS

VES Influent	0D15014-01	Vapor	5	04/15/20 09:37	04/15/20 16:05
VES Effluent	0D15014-02	Vapor	5	04/15/20 09:32	04/15/20 16:05

VOCs Gasoline Range Organics Vapor

VES Influent	0D15014-01	Vapor	5	04/15/20 09:37	04/15/20 16:05
VES Effluent	0D15014-02	Vapor	5	04/15/20 09:32	04/15/20 16:05

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333473
Date Received: 04/15/20
Date Reported: 04/30/20
Sampled: 04/15/20
Prepared: 04/16/20
Analyzed: 04/16/20

VES Influent

0D15014-01 (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	92.1 %	70-140
Dibromofluoromethane	85.0 %	70-140
Toluene-d8	95.0 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333473
Date Received: 04/15/20
Date Reported: 04/30/20
Sampled: 04/15/20
Prepared: 04/16/20
Analyzed: 04/16/20

VES Effluent

0D15014-02 (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	88.9 %	70-140
Dibromofluoromethane	88.1 %	70-140
Toluene-d8	92.4 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333473
Date Received: 04/15/20
Date Reported: 04/30/20
Sampled: 04/15/20
Prepared: 04/16/20
Analyzed: 04/16/20

VES Influent

0D15014-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	39	ug/L	20	9.5	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		101 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333473
Date Received: 04/15/20
Date Reported: 04/30/20
Sampled: 04/15/20
Prepared: 04/16/20
Analyzed: 04/16/20

VES Effluent

0D15014-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	27	ug/L	20	6.6	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		103 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333473
Date Received: 04/15/20
Date Reported: 04/30/20
Units: ppmv

Date Sampled:	04/15/20	04/15/20	
Date Prepared:	04/16/20	04/16/20	
Date Analyzed:	04/16/20	04/16/20	
AA ID No:	0D15014-01	0D15014-02	
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	8.6	<5.7	5.7
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333473
Date Received: 04/15/20
Date Reported: 04/30/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0D1616 - *** DEFAULT PREP ***</i>										
Blank (B0D1616-BLK1)				Prepared & Analyzed: 04/16/20						
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	44.6		ug/L	50		89.3	70-140			
<i>Surrogate: Dibromofluoromethane</i>	42.3		ug/L	50		84.6	70-140			
<i>Surrogate: Toluene-d8</i>	45.1		ug/L	50		90.2	70-140			
LCS (B0D1616-BS1)				Prepared & Analyzed: 04/16/20						
Benzene	18.8	0.50	ug/L	20		93.9	75-125			
Ethylbenzene	20.4	0.50	ug/L	20		102	75-125			
Methyl-tert-Butyl Ether (MTBE)	42.3	2.0	ug/L	40		106	75-125			
Toluene	20.1	0.50	ug/L	20		100	75-125			
o-Xylene	20.5	0.50	ug/L	20		102	75-125			
m,p-Xylenes	41.3	1.0	ug/L	40		103	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	43.2		ug/L	50		86.3	70-140			
<i>Surrogate: Dibromofluoromethane</i>	42.4		ug/L	50		84.8	70-140			
<i>Surrogate: Toluene-d8</i>	45.9		ug/L	50		91.8	70-140			
LCS Dup (B0D1616-BSD1)				Prepared & Analyzed: 04/16/20						
Benzene	18.7	0.50	ug/L	20		93.6	75-125	0.320	30	
Ethylbenzene	20.5	0.50	ug/L	20		103	75-125	0.342	30	
Methyl-tert-Butyl Ether (MTBE)	39.8	2.0	ug/L	40		99.6	75-125	5.90	30	
Toluene	20.2	0.50	ug/L	20		101	75-125	0.893	30	
o-Xylene	21.0	0.50	ug/L	20		105	75-125	2.46	30	
m,p-Xylenes	41.8	1.0	ug/L	40		105	75-125	1.35	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	42.4		ug/L	50		84.8	70-140			
<i>Surrogate: Dibromofluoromethane</i>	40.6		ug/L	50		81.3	70-140			
<i>Surrogate: Toluene-d8</i>	46.2		ug/L	50		92.4	70-140			
Duplicate (B0D1616-DUP1)				Source: 0D15015-02 Prepared & Analyzed: 04/16/20						

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333473
Date Received: 04/15/20
Date Reported: 04/30/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0D1616 - *** DEFAULT PREP ***</i>										
Duplicate (B0D1616-DUP1) Continued Source: 0D15015-02 Prepared & Analyzed: 04/16/20										
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	
<i>Surrogate: 4-Bromofluorobenzene</i>	44.9		ug/L	50		89.8	70-140			
<i>Surrogate: Dibromofluoromethane</i>	44.0		ug/L	50		88.1	70-140			
<i>Surrogate: Toluene-d8</i>	46.6		ug/L	50		93.3	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B0D1615 - *** DEFAULT PREP ***</i>										
Blank (B0D1615-BLK1) Prepared & Analyzed: 04/16/20										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	51.3		ug/L	50		103	70-130			
LCS (B0D1615-BS1) Prepared & Analyzed: 04/16/20										
Gasoline Range Organics (GRO)	436	20	ug/L	500		87.2	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	54.4		ug/L	50		109	70-130			
LCS Dup (B0D1615-BSD1) Prepared & Analyzed: 04/16/20										
Gasoline Range Organics (GRO)	435	20	ug/L	500		87.0	75-125	0.240	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	56.8		ug/L	50		114	70-130			
Duplicate (B0D1615-DUP1) Source: 0D15014-01 Prepared & Analyzed: 04/16/20										
Gasoline Range Organics (GRO)	42.1	20	ug/L		39.3			6.98	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	50.7		ug/L	50		101	70-130			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0D1615 - *** DEFAULT PREP ***</i>										
Blank (B0D1615-BLK1) Prepared & Analyzed: 04/16/20										
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B0D1615-DUP1) Source: 0D15014-01 Prepared & Analyzed: 04/16/20										

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333473
Date Received: 04/15/20
Date Reported: 04/30/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0D1615 - *** DEFAULT PREP ***</i>										
Duplicate (B0D1615-DUP1) Continued Source: 0D15014-01 Prepared & Analyzed: 04/16/20										
GRO as Hexane	9.24	5.7	ppmv		8.57			7.43	30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333473
Date Received: 04/15/20
Date Reported: 04/30/20

Special Notes

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

Viorel Vasile
Operations Manager



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

April 30, 2020

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333474 / 0D15015**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 04/15/20 16:05 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

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: A5333474
Date Received: 04/15/20
Date Reported: 04/30/20

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

VES After GAC-1	0D15015-01	Vapor	5	04/15/20 09:36	04/15/20 16:05
VES After GAC-2	0D15015-02	Vapor	5	04/15/20 09:34	04/15/20 16:05

VOCs BTEX/MTBE Vapor GC/MS

VES After GAC-1	0D15015-01	Vapor	5	04/15/20 09:36	04/15/20 16:05
VES After GAC-2	0D15015-02	Vapor	5	04/15/20 09:34	04/15/20 16:05

VOCs Gasoline Range Organics Vapor

VES After GAC-1	0D15015-01	Vapor	5	04/15/20 09:36	04/15/20 16:05
VES After GAC-2	0D15015-02	Vapor	5	04/15/20 09:34	04/15/20 16:05

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333474
Date Received: 04/15/20
Date Reported: 04/30/20
Sampled: 04/15/20
Prepared: 04/16/20
Analyzed: 04/16/20

VES After GAC-1
0D15015-01 (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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	86.0 %	70-140
Dibromofluoromethane	84.5 %	70-140
Toluene-d8	89.2 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333474
Date Received: 04/15/20
Date Reported: 04/30/20
Sampled: 04/15/20
Prepared: 04/16/20
Analyzed: 04/16/20

VES After GAC-2
0D15015-02 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	87.1 %	70-140
Dibromofluoromethane	88.9 %	70-140
Toluene-d8	90.0 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333474
Date Received: 04/15/20
Date Reported: 04/30/20
Sampled: 04/15/20
Prepared: 04/16/20
Analyzed: 04/16/20

VES After GAC-1

0D15015-01 (Vapor)

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

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333474
Date Received: 04/15/20
Date Reported: 04/30/20
Sampled: 04/15/20
Prepared: 04/16/20
Analyzed: 04/16/20

VES After GAC-2

0D15015-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
a,a,a-Trifluorotoluene	103 %	70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333474
Date Received: 04/15/20
Date Reported: 04/30/20
Units: ppmv

Date Sampled:	04/15/20	04/15/20	
Date Prepared:	04/16/20	04/16/20	
Date Analyzed:	04/16/20	04/16/20	
AA ID No:	0D15015-01	0D15015-02	
Client ID No:	VES After GAC-1	VES After GAC-2	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	<5.7	<5.7	5.7
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333474
Date Received: 04/15/20
Date Reported: 04/30/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0D1616 - *** DEFAULT PREP ***</i>										
Blank (B0D1616-BLK1)				Prepared & Analyzed: 04/16/20						
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	44.6		ug/L	50		89.3	70-140			
<i>Surrogate: Dibromofluoromethane</i>	42.3		ug/L	50		84.6	70-140			
<i>Surrogate: Toluene-d8</i>	45.1		ug/L	50		90.2	70-140			
LCS (B0D1616-BS1)				Prepared & Analyzed: 04/16/20						
Benzene	18.8	0.50	ug/L	20		93.9	75-125			
Ethylbenzene	20.4	0.50	ug/L	20		102	75-125			
Methyl-tert-Butyl Ether (MTBE)	42.3	2.0	ug/L	40		106	75-125			
Toluene	20.1	0.50	ug/L	20		100	75-125			
o-Xylene	20.5	0.50	ug/L	20		102	75-125			
m,p-Xylenes	41.3	1.0	ug/L	40		103	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	43.2		ug/L	50		86.3	70-140			
<i>Surrogate: Dibromofluoromethane</i>	42.4		ug/L	50		84.8	70-140			
<i>Surrogate: Toluene-d8</i>	45.9		ug/L	50		91.8	70-140			
LCS Dup (B0D1616-BSD1)				Prepared & Analyzed: 04/16/20						
Benzene	18.7	0.50	ug/L	20		93.6	75-125	0.320	30	
Ethylbenzene	20.5	0.50	ug/L	20		103	75-125	0.342	30	
Methyl-tert-Butyl Ether (MTBE)	39.8	2.0	ug/L	40		99.6	75-125	5.90	30	
Toluene	20.2	0.50	ug/L	20		101	75-125	0.893	30	
o-Xylene	21.0	0.50	ug/L	20		105	75-125	2.46	30	
m,p-Xylenes	41.8	1.0	ug/L	40		105	75-125	1.35	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	42.4		ug/L	50		84.8	70-140			
<i>Surrogate: Dibromofluoromethane</i>	40.6		ug/L	50		81.3	70-140			
<i>Surrogate: Toluene-d8</i>	46.2		ug/L	50		92.4	70-140			
Duplicate (B0D1616-DUP1)				Source: 0D15015-02 Prepared & Analyzed: 04/16/20						

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5333474
Date Received: 04/15/20
Date Reported: 04/30/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0D1616 - *** DEFAULT PREP ***</i>										
Duplicate (B0D1616-DUP1) Continued Source: 0D15015-02 Prepared & Analyzed: 04/16/20										
Benzene	<0.50	0.50	ug/L		<0.50				30	
Ethylbenzene	<0.50	0.50	ug/L		<0.50				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	<0.50	0.50	ug/L		<0.50				30	
m,p-Xylenes	<1.0	1.0	ug/L		<1.0				30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>44.9</i>		<i>ug/L</i>	<i>50</i>		<i>89.8</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>44.0</i>		<i>ug/L</i>	<i>50</i>		<i>88.1</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>46.6</i>		<i>ug/L</i>	<i>50</i>		<i>93.3</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B0D1615 - *** DEFAULT PREP ***</i>										
Blank (B0D1615-BLK1) Prepared & Analyzed: 04/16/20										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>51.3</i>		<i>ug/L</i>	<i>50</i>		<i>103</i>	<i>70-130</i>			
LCS (B0D1615-BS1) Prepared & Analyzed: 04/16/20										
Gasoline Range Organics (GRO)	436	20	ug/L	500		87.2	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>54.4</i>		<i>ug/L</i>	<i>50</i>		<i>109</i>	<i>70-130</i>			
LCS Dup (B0D1615-BSD1) Prepared & Analyzed: 04/16/20										
Gasoline Range Organics (GRO)	435	20	ug/L	500		87.0	75-125	0.240	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>56.8</i>		<i>ug/L</i>	<i>50</i>		<i>114</i>	<i>70-130</i>			
Duplicate (B0D1615-DUP1) Source: 0D15014-01 Prepared & Analyzed: 04/16/20										
Gasoline Range Organics (GRO)	42.1	20	ug/L		39.3			6.98	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>50.7</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-130</i>			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0D1615 - *** DEFAULT PREP ***</i>										
Blank (B0D1615-BLK1) Prepared & Analyzed: 04/16/20										
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B0D1615-DUP1) Source: 0D15014-01 Prepared & Analyzed: 04/16/20										

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333474
Date Received: 04/15/20
Date Reported: 04/30/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0D1615 - *** DEFAULT PREP ***</i>										
Duplicate (B0D1615-DUP1) Continued Source: 0D15014-01 Prepared & Analyzed: 04/16/20										
GRO as Hexane	9.24	5.7	ppmv		8.57			7.43	30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333474
Date Received: 04/15/20
Date Reported: 04/30/20

Special Notes

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

Viorel Vasile
Operations Manager



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

May 26, 2020

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
a5333547 / 0E15004**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 05/15/20 15:08 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: a5333547
Date Received: 05/15/20
Date Reported: 05/26/20
Sampled: 05/15/20
Prepared: 05/16/20
Analyzed: 05/16/20

VES Influent

0E15004-01 (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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	107 %	70-140
Dibromofluoromethane	115 %	70-140
Toluene-d8	105 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: a5333547
Date Received: 05/15/20
Date Reported: 05/26/20
Sampled: 05/15/20
Prepared: 05/15/20
Analyzed: 05/15/20

VES Influent

0E15004-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	68	ug/L	20	17	ppmv	4.9

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
a,a,a-Trifluorotoluene	105 %	70-130

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: a5333547
Date Received: 05/15/20
Date Reported: 05/26/20
Units: ppmv

Date Sampled:	05/15/20	
Date Prepared:	05/15/20	
Date Analyzed:	05/15/20	
AA ID No:	0E15004-01	
Client ID No:	VES Influent	
Matrix:	Vapor	
Dilution Factor:	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	15	5.7
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: a5333547
Date Received: 05/15/20
Date Reported: 05/26/20

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

Batch B0E1602 - *** DEFAULT PREP ***

Blank (B0E1602-BLK1)

Prepared & Analyzed: 05/16/20

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

Surrogate: 4-Bromofluorobenzene	50.0		ug/L	50		99.9	70-140			
Surrogate: Dibromofluoromethane	55.7		ug/L	50		111	70-140			
Surrogate: Toluene-d8	50.4		ug/L	50		101	70-140			

LCS (B0E1602-BS1)

Prepared & Analyzed: 05/16/20

Benzene	17.0	0.50	ug/L	20		84.8	75-125			
Ethylbenzene	21.9	0.50	ug/L	20		110	75-125			
Methyl-tert-Butyl Ether (MTBE)	37.7	2.0	ug/L	40		94.2	75-125			
Toluene	20.0	0.50	ug/L	20		100	75-125			
o-Xylene	20.5	0.50	ug/L	20		102	75-125			
m,p-Xylenes	42.3	1.0	ug/L	40		106	75-125			

Surrogate: 4-Bromofluorobenzene	50.3		ug/L	50		101	70-140			
Surrogate: Dibromofluoromethane	49.3		ug/L	50		98.7	70-140			
Surrogate: Toluene-d8	50.6		ug/L	50		101	70-140			

LCS Dup (B0E1602-BSD1)

Prepared & Analyzed: 05/16/20

Benzene	17.5	0.50	ug/L	20		87.6	75-125	3.25	30	
Ethylbenzene	21.7	0.50	ug/L	20		109	75-125	1.01	30	
Methyl-tert-Butyl Ether (MTBE)	38.8	2.0	ug/L	40		97.0	75-125	2.85	30	
Toluene	20.2	0.50	ug/L	20		101	75-125	1.24	30	
o-Xylene	20.8	0.50	ug/L	20		104	75-125	1.60	30	
m,p-Xylenes	42.5	1.0	ug/L	40		106	75-125	0.424	30	

Surrogate: 4-Bromofluorobenzene	50.1		ug/L	50		100	70-140			
Surrogate: Dibromofluoromethane	50.4		ug/L	50		101	70-140			
Surrogate: Toluene-d8	50.5		ug/L	50		101	70-140			

Duplicate (B0E1602-DUP1) Source: 0E15003-02 Prepared & Analyzed: 05/16/20

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: a5333547
Date Received: 05/15/20
Date Reported: 05/26/20

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

Batch B0E1602 - *** DEFAULT PREP ***

Duplicate (B0E1602-DUP1) Continued Source: 0E15003-02 Prepared & Analyzed: 05/16/20

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	54.4		ug/L	50		109	70-140			
Surrogate: Dibromofluoromethane	58.4		ug/L	50		117	70-140			
Surrogate: Toluene-d8	52.0		ug/L	50		104	70-140			

Gasoline Range Organics in Vapor by GC/FID - Quality Control

Batch B0E1504 - *** DEFAULT PREP ***

Blank (B0E1504-BLK1) Prepared & Analyzed: 05/15/20

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	49.5		ug/L	50		99.0	70-130			

LCS (B0E1504-BS1) Prepared & Analyzed: 05/15/20

Gasoline Range Organics (GRO)	476	20	ug/L	500		95.1	75-125			
Surrogate: a,a,a-Trifluorotoluene	57.7		ug/L	50		115	70-130			

LCS Dup (B0E1504-BSD1) Prepared & Analyzed: 05/15/20

Gasoline Range Organics (GRO)	468	20	ug/L	500		93.5	75-125	1.70	30	
Surrogate: a,a,a-Trifluorotoluene	54.1		ug/L	50		108	70-130			

Duplicate (B0E1504-DUP2) Source: 0E15002-01 Prepared & Analyzed: 05/15/20

Gasoline Range Organics (GRO)	<20	20	ug/L						30	
Surrogate: a,a,a-Trifluorotoluene	51.0		ug/L	50		102	70-130			

GRO in Vapor as Hexane - Quality Control

Batch B0E1504 - *** DEFAULT PREP ***

Blank (B0E1504-BLK1) Prepared & Analyzed: 05/15/20

GRO as Hexane	<5.7	5.7	ppmv							
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Duplicate (B0E1504-DUP2) Source: 0E15002-01 Prepared & Analyzed: 05/15/20

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: a5333547
Date Received: 05/15/20
Date Reported: 05/26/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0E1504 - *** DEFAULT PREP ***</i>										
Duplicate (B0E1504-DUP2) Continued Source: 0E15002-01 Prepared & Analyzed: 05/15/20										
GRO as Hexane	<5.7	5.7	ppmv						30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: a5333547
Date Received: 05/15/20
Date Reported: 05/26/20

Special Notes

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

Viorel Vasile
Operations Manager



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

May 18, 2020

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333545 / 0E15002**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 05/15/20 15:08 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333545
Date Received: 05/15/20
Date Reported: 05/18/20
Sampled: 05/15/20
Prepared: 05/16/20
Analyzed: 05/16/20

VES Effluent

0E15002-01 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	103 %	70-140
Dibromofluoromethane	111 %	70-140
Toluene-d8	101 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333545
Date Received: 05/15/20
Date Reported: 05/18/20
Sampled: 05/15/20
Prepared: 05/15/20
Analyzed: 05/15/20

VES Effluent

0E15002-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		98.2 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333545
Date Received: 05/15/20
Date Reported: 05/18/20
Units: ppmv

Date Sampled:	05/15/20	
Date Prepared:	05/15/20	
Date Analyzed:	05/15/20	
AA ID No:	0E15002-01	
Client ID No:	VES Effluent	
Matrix:	Vapor	
Dilution Factor:	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	<5.7	5.7
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333545
Date Received: 05/15/20
Date Reported: 05/18/20

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

Batch B0E1602 - *** DEFAULT PREP ***

Blank (B0E1602-BLK1)

Prepared & Analyzed: 05/16/20

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

Surrogate: 4-Bromofluorobenzene	50.0		ug/L	50		99.9	70-140			
Surrogate: Dibromofluoromethane	55.7		ug/L	50		111	70-140			
Surrogate: Toluene-d8	50.4		ug/L	50		101	70-140			

LCS (B0E1602-BS1)

Prepared & Analyzed: 05/16/20

Benzene	17.0	0.50	ug/L	20		84.8	75-125			
Ethylbenzene	21.9	0.50	ug/L	20		110	75-125			
Methyl-tert-Butyl Ether (MTBE)	37.7	2.0	ug/L	40		94.2	75-125			
Toluene	20.0	0.50	ug/L	20		100	75-125			
o-Xylene	20.5	0.50	ug/L	20		102	75-125			
m,p-Xylenes	42.3	1.0	ug/L	40		106	75-125			

Surrogate: 4-Bromofluorobenzene	50.3		ug/L	50		101	70-140			
Surrogate: Dibromofluoromethane	49.3		ug/L	50		98.7	70-140			
Surrogate: Toluene-d8	50.6		ug/L	50		101	70-140			

LCS Dup (B0E1602-BSD1)

Prepared & Analyzed: 05/16/20

Benzene	17.5	0.50	ug/L	20		87.6	75-125	3.25	30	
Ethylbenzene	21.7	0.50	ug/L	20		109	75-125	1.01	30	
Methyl-tert-Butyl Ether (MTBE)	38.8	2.0	ug/L	40		97.0	75-125	2.85	30	
Toluene	20.2	0.50	ug/L	20		101	75-125	1.24	30	
o-Xylene	20.8	0.50	ug/L	20		104	75-125	1.60	30	
m,p-Xylenes	42.5	1.0	ug/L	40		106	75-125	0.424	30	

Surrogate: 4-Bromofluorobenzene	50.1		ug/L	50		100	70-140			
Surrogate: Dibromofluoromethane	50.4		ug/L	50		101	70-140			
Surrogate: Toluene-d8	50.5		ug/L	50		101	70-140			

Duplicate (B0E1602-DUP1) Source: 0E15003-02 Prepared & Analyzed: 05/16/20

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333545
Date Received: 05/15/20
Date Reported: 05/18/20

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

Batch B0E1602 - *** DEFAULT PREP ***

Duplicate (B0E1602-DUP1) Continued Source: 0E15003-02 Prepared & Analyzed: 05/16/20

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	54.4		ug/L	50		109	70-140			
Surrogate: Dibromofluoromethane	58.4		ug/L	50		117	70-140			
Surrogate: Toluene-d8	52.0		ug/L	50		104	70-140			

Gasoline Range Organics in Vapor by GC/FID - Quality Control

Batch B0E1504 - *** DEFAULT PREP ***

Blank (B0E1504-BLK1) Prepared & Analyzed: 05/15/20

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	49.5		ug/L	50		99.0	70-130			

LCS (B0E1504-BS1) Prepared & Analyzed: 05/15/20

Gasoline Range Organics (GRO)	476	20	ug/L	500		95.1	75-125			
Surrogate: a,a,a-Trifluorotoluene	57.7		ug/L	50		115	70-130			

LCS Dup (B0E1504-BSD1) Prepared & Analyzed: 05/15/20

Gasoline Range Organics (GRO)	468	20	ug/L	500		93.5	75-125	1.70	30	
Surrogate: a,a,a-Trifluorotoluene	54.1		ug/L	50		108	70-130			

Duplicate (B0E1504-DUP2) Source: 0E15002-01 Prepared & Analyzed: 05/15/20

Gasoline Range Organics (GRO)	<20	20	ug/L		<20				30	
Surrogate: a,a,a-Trifluorotoluene	51.0		ug/L	50		102	70-130			

GRO in Vapor as Hexane - Quality Control

Batch B0E1504 - *** DEFAULT PREP ***

Blank (B0E1504-BLK1) Prepared & Analyzed: 05/15/20

GRO as Hexane	<5.7	5.7	ppmv							
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Duplicate (B0E1504-DUP2) Source: 0E15002-01 Prepared & Analyzed: 05/15/20

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333545
Date Received: 05/15/20
Date Reported: 05/18/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0E1504 - *** DEFAULT PREP ***</i>										
Duplicate (B0E1504-DUP2) Continued Source: 0E15002-01 Prepared & Analyzed: 05/15/20										
GRO as Hexane	<5.7	5.7	ppmv		<5.7				30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333545
Date Received: 05/15/20
Date Reported: 05/18/20

Special Notes

A handwritten signature in black ink, appearing to be 'AV' or similar initials, written over a horizontal line.

Viorel Vasile
Operations Manager



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

May 26, 2020

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333546 / 0E15003**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 05/15/20 15:08 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5333546
Date Received: 05/15/20
Date Reported: 05/26/20

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

VES After GAC-1	0E15003-01	Vapor	5	05/15/20 08:24	05/15/20 15:08
VES After GAC-2	0E15003-02	Vapor	5	05/15/20 08:23	05/15/20 15:08

VOCs BTEX/MTBE Vapor GC/MS

VES After GAC-1	0E15003-01	Vapor	5	05/15/20 08:24	05/15/20 15:08
VES After GAC-2	0E15003-02	Vapor	5	05/15/20 08:23	05/15/20 15:08

VOCs Gasoline Range Organics Vapor

VES After GAC-1	0E15003-01	Vapor	5	05/15/20 08:24	05/15/20 15:08
VES After GAC-2	0E15003-02	Vapor	5	05/15/20 08:23	05/15/20 15:08

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333546
Date Received: 05/15/20
Date Reported: 05/26/20
Sampled: 05/15/20
Prepared: 05/16/20
Analyzed: 05/16/20

VES After GAC-1
0E15003-01 (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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	104 %	70-140
Dibromofluoromethane	111 %	70-140
Toluene-d8	103 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333546
Date Received: 05/15/20
Date Reported: 05/26/20
Sampled: 05/15/20
Prepared: 05/16/20
Analyzed: 05/16/20

VES After GAC-2
0E15003-02 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	107 %	70-140
Dibromofluoromethane	115 %	70-140
Toluene-d8	103 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333546
Date Received: 05/15/20
Date Reported: 05/26/20
Sampled: 05/15/20
Prepared: 05/15/20
Analyzed: 05/15/20

VES After GAC-1
0E15003-01 (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		95.9 %				70-130

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333546
Date Received: 05/15/20
Date Reported: 05/26/20
Sampled: 05/15/20
Prepared: 05/15/20
Analyzed: 05/15/20

VES After GAC-2

0E15003-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
a,a,a-Trifluorotoluene	104 %	70-130

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333546
Date Received: 05/15/20
Date Reported: 05/26/20
Units: ppmv

Date Sampled:	05/15/20	05/15/20	
Date Prepared:	05/15/20	05/15/20	
Date Analyzed:	05/15/20	05/15/20	
AA ID No:	0E15003-01	0E15003-02	
Client ID No:	VES After GAC-1	VES After GAC-2	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	<5.7	<5.7	5.7
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333546
Date Received: 05/15/20
Date Reported: 05/26/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0E1602 - *** DEFAULT PREP ***</i>										
Blank (B0E1602-BLK1)				Prepared & Analyzed: 05/16/20						
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.0</i>		<i>ug/L</i>	<i>50</i>		<i>99.9</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>55.7</i>		<i>ug/L</i>	<i>50</i>		<i>111</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.4</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
LCS (B0E1602-BS1)				Prepared & Analyzed: 05/16/20						
Benzene	17.0	0.50	ug/L	20		84.8	75-125			
Ethylbenzene	21.9	0.50	ug/L	20		110	75-125			
Methyl-tert-Butyl Ether (MTBE)	37.7	2.0	ug/L	40		94.2	75-125			
Toluene	20.0	0.50	ug/L	20		100	75-125			
o-Xylene	20.5	0.50	ug/L	20		102	75-125			
m,p-Xylenes	42.3	1.0	ug/L	40		106	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.3</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>49.3</i>		<i>ug/L</i>	<i>50</i>		<i>98.7</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.6</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
LCS Dup (B0E1602-BSD1)				Prepared & Analyzed: 05/16/20						
Benzene	17.5	0.50	ug/L	20		87.6	75-125	3.25	30	
Ethylbenzene	21.7	0.50	ug/L	20		109	75-125	1.01	30	
Methyl-tert-Butyl Ether (MTBE)	38.8	2.0	ug/L	40		97.0	75-125	2.85	30	
Toluene	20.2	0.50	ug/L	20		101	75-125	1.24	30	
o-Xylene	20.8	0.50	ug/L	20		104	75-125	1.60	30	
m,p-Xylenes	42.5	1.0	ug/L	40		106	75-125	0.424	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.1</i>		<i>ug/L</i>	<i>50</i>		<i>100</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>50.4</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.5</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
Duplicate (B0E1602-DUP1)				Source: 0E15003-02 Prepared & Analyzed: 05/16/20						

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5333546
Date Received: 05/15/20
Date Reported: 05/26/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0E1602 - *** DEFAULT PREP ***</i>										
Duplicate (B0E1602-DUP1) Continued Source: 0E15003-02 Prepared & Analyzed: 05/16/20										
Benzene	<0.50	0.50	ug/L		<0.50				30	
Ethylbenzene	<0.50	0.50	ug/L		<0.50				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	<0.50	0.50	ug/L		<0.50				30	
m,p-Xylenes	<1.0	1.0	ug/L		<1.0				30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>54.4</i>		<i>ug/L</i>	<i>50</i>		<i>109</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>58.4</i>		<i>ug/L</i>	<i>50</i>		<i>117</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>52.0</i>		<i>ug/L</i>	<i>50</i>		<i>104</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B0E1504 - *** DEFAULT PREP ***</i>										
Blank (B0E1504-BLK1) Prepared & Analyzed: 05/15/20										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>49.5</i>		<i>ug/L</i>	<i>50</i>		<i>99.0</i>	<i>70-130</i>			
LCS (B0E1504-BS1) Prepared & Analyzed: 05/15/20										
Gasoline Range Organics (GRO)	476	20	ug/L	500		95.1	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>57.7</i>		<i>ug/L</i>	<i>50</i>		<i>115</i>	<i>70-130</i>			
LCS Dup (B0E1504-BSD1) Prepared & Analyzed: 05/15/20										
Gasoline Range Organics (GRO)	468	20	ug/L	500		93.5	75-125	1.70	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>54.1</i>		<i>ug/L</i>	<i>50</i>		<i>108</i>	<i>70-130</i>			
Duplicate (B0E1504-DUP2) Source: 0E15002-01 Prepared & Analyzed: 05/15/20										
Gasoline Range Organics (GRO)	<20	20	ug/L						30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>51.0</i>		<i>ug/L</i>	<i>50</i>		<i>102</i>	<i>70-130</i>			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0E1504 - *** DEFAULT PREP ***</i>										
Blank (B0E1504-BLK1) Prepared & Analyzed: 05/15/20										
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B0E1504-DUP2) Source: 0E15002-01 Prepared & Analyzed: 05/15/20										

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333546
Date Received: 05/15/20
Date Reported: 05/26/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0E1504 - *** DEFAULT PREP ***</i>										
Duplicate (B0E1504-DUP2) Continued Source: 0E15002-01 Prepared & Analyzed: 05/15/20										
GRO as Hexane	<5.7	5.7	ppmv						30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333546
Date Received: 05/15/20
Date Reported: 05/26/20

Special Notes

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

Viorel Vasile
Operations Manager



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

July 06, 2020

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333622 / 0F22010**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 06/22/20 14:48 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

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: A5333622
Date Received: 06/22/20
Date Reported: 07/06/20

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

VES Influent	0F22010-01	Vapor	5	06/22/20 11:07	06/22/20 14:48
VES Effluent	0F22010-02	Vapor	5	06/22/20 11:02	06/22/20 14:48

VOCs BTEX/MTBE Vapor GC/MS

VES Influent	0F22010-01	Vapor	5	06/22/20 11:07	06/22/20 14:48
VES Effluent	0F22010-02	Vapor	5	06/22/20 11:02	06/22/20 14:48

VOCs Gasoline Range Organics Vapor

VES Influent	0F22010-01	Vapor	5	06/22/20 11:07	06/22/20 14:48
VES Effluent	0F22010-02	Vapor	5	06/22/20 11:02	06/22/20 14:48

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS****Client:** The Source Group, Inc. (SH)**Project No:** 04-NDLA-013**Project Name:** DFSP Norwalk VES AQMD**Matrix:** Vapor**Dilution:** 1**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M**AA Project No:** A5333622**Date Received:** 06/22/20**Date Reported:** 07/06/20**Sampled:** 06/22/20**Prepared:** 06/23/20**Analyzed:** 06/23/20**VES Influent****0F22010-01 (Vapor)**

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

Surrogates**%REC****%REC Limits**

4-Bromofluorobenzene

104 %

70-140

Dibromofluoromethane

90.9 %

70-140

Toluene-d8

106 %

70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS****Client:** The Source Group, Inc. (SH)**Project No:** 04-NDLA-013**Project Name:** DFSP Norwalk VES AQMD**Matrix:** Vapor**Dilution:** 0.5**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M**AA Project No:** A5333622**Date Received:** 06/22/20**Date Reported:** 07/06/20**Sampled:** 06/22/20**Prepared:** 06/23/20**Analyzed:** 06/23/20**VES Effluent****0F22010-02 (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

4-Bromofluorobenzene

Dibromofluoromethane

Toluene-d8

%REC

104 %

93.4 %

102 %

%REC Limits

70-140

70-140

70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333622
Date Received: 06/22/20
Date Reported: 07/06/20
Sampled: 06/22/20
Prepared: 06/23/20
Analyzed: 06/23/20

VES Influent

0F22010-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	98	ug/L	20	24	ppmv	4.9
Surrogates		%REC				%REC Limits
a,a,a-Trifluorotoluene		85.7 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333622
Date Received: 06/22/20
Date Reported: 07/06/20
Sampled: 06/22/20
Prepared: 06/23/20
Analyzed: 06/23/20

VES Effluent

0F22010-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		84.1 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333622
Date Received: 06/22/20
Date Reported: 07/06/20
Units: ppmv

Date Sampled:	06/22/20	06/22/20	
Date Prepared:	06/23/20	06/23/20	
Date Analyzed:	06/23/20	06/23/20	
AA ID No:	0F22010-01	0F22010-02	
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	21	<5.7	5.7
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333622
Date Received: 06/22/20
Date Reported: 07/06/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0F2323 - *** DEFAULT PREP ***</i>										
Blank (B0F2323-BLK1)					Prepared & Analyzed: 06/23/20					
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	51.6		ug/L	50		103	70-140			
<i>Surrogate: Dibromofluoromethane</i>	47.7		ug/L	50		95.4	70-140			
<i>Surrogate: Toluene-d8</i>	51.9		ug/L	50		104	70-140			
LCS (B0F2323-BS1)					Prepared: 06/23/20 Analyzed: 06/24/20					
Benzene	19.7	0.50	ug/L	20		98.6	75-125			
Ethylbenzene	21.0	0.50	ug/L	20		105	75-125			
Methyl-tert-Butyl Ether (MTBE)	33.8	2.0	ug/L	40		84.5	75-125			
Toluene	21.8	0.50	ug/L	20		109	75-125			
o-Xylene	20.7	0.50	ug/L	20		104	75-125			
m,p-Xylenes	39.4	1.0	ug/L	40		98.4	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	50.4		ug/L	50		101	70-140			
<i>Surrogate: Dibromofluoromethane</i>	45.4		ug/L	50		90.8	70-140			
<i>Surrogate: Toluene-d8</i>	51.5		ug/L	50		103	70-140			
LCS Dup (B0F2323-BSD1)					Prepared: 06/23/20 Analyzed: 06/24/20					
Benzene	19.5	0.50	ug/L	20		97.7	75-125	0.866	30	
Ethylbenzene	20.9	0.50	ug/L	20		104	75-125	0.526	30	
Methyl-tert-Butyl Ether (MTBE)	34.1	2.0	ug/L	40		85.2	75-125	0.737	30	
Toluene	21.5	0.50	ug/L	20		108	75-125	1.34	30	
o-Xylene	21.0	0.50	ug/L	20		105	75-125	1.25	30	
m,p-Xylenes	39.5	1.0	ug/L	40		98.8	75-125	0.431	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	51.1		ug/L	50		102	70-140			
<i>Surrogate: Dibromofluoromethane</i>	45.6		ug/L	50		91.3	70-140			
<i>Surrogate: Toluene-d8</i>	52.1		ug/L	50		104	70-140			
Duplicate (B0F2323-DUP1)					Source: 0F22010-01 Prepared & Analyzed: 06/23/20					

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5333622
Date Received: 06/22/20
Date Reported: 07/06/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0F2323 - *** DEFAULT PREP ***</i>										
Duplicate (B0F2323-DUP1) Continued Source: 0F22010-01 Prepared & Analyzed: 06/23/20										
Benzene	<0.50	0.50	ug/L		0.440			2.25	30	
Ethylbenzene	<0.50	0.50	ug/L		<0.50				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	<0.50	0.50	ug/L		<0.50				30	
m,p-Xylenes	<1.0	1.0	ug/L		<1.0				30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.1</i>		<i>ug/L</i>	<i>50</i>		<i>100</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>46.4</i>		<i>ug/L</i>	<i>50</i>		<i>92.8</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>51.0</i>		<i>ug/L</i>	<i>50</i>		<i>102</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B0F2319 - *** DEFAULT PREP ***</i>										
Blank (B0F2319-BLK1) Prepared & Analyzed: 06/23/20										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>43.3</i>		<i>ug/L</i>	<i>50</i>		<i>86.7</i>	<i>70-130</i>			
LCS (B0F2319-BS1) Prepared & Analyzed: 06/23/20										
Gasoline Range Organics (GRO)	473	20	ug/L	500		94.7	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>50.9</i>		<i>ug/L</i>	<i>50</i>		<i>102</i>	<i>70-130</i>			
LCS Dup (B0F2319-BSD1) Prepared & Analyzed: 06/23/20										
Gasoline Range Organics (GRO)	467	20	ug/L	500		93.5	75-125	1.26	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>50.4</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-130</i>			
Duplicate (B0F2319-DUP1) Source: 0F22010-01 Prepared & Analyzed: 06/23/20										
Gasoline Range Organics (GRO)	105	20	ug/L		97.8			7.49	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>43.0</i>		<i>ug/L</i>	<i>50</i>		<i>86.1</i>	<i>70-130</i>			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0F2319 - *** DEFAULT PREP ***</i>										
Blank (B0F2319-BLK1) Prepared & Analyzed: 06/23/20										
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B0F2319-DUP1) Source: 0F22010-01 Prepared & Analyzed: 06/23/20										

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333622
Date Received: 06/22/20
Date Reported: 07/06/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0F2319 - *** DEFAULT PREP ***</i>										
Duplicate (B0F2319-DUP1) Continued Source: 0F22010-01 Prepared & Analyzed: 06/23/20										
GRO as Hexane	23.1	5.7	ppmv		21.5			7.32	30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333622
Date Received: 06/22/20
Date Reported: 07/06/20

Special Notes

A handwritten signature in black ink, appearing to be 'VA' or similar, written over a horizontal line.

Viorel Vasile
Operations Manager



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

July 06, 2020

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333625 / 0F22013**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 06/22/20 14:48 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

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: A5333625
Date Received: 06/22/20
Date Reported: 07/06/20

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

VES After GAC-1	0F22013-01	Vapor	5	06/22/20 11:06	06/22/20 14:48
VES After GAC-2	0F22013-02	Vapor	5	06/22/20 11:05	06/22/20 14:48

VOCs BTEX/MTBE Vapor GC/MS

VES After GAC-1	0F22013-01	Vapor	5	06/22/20 11:06	06/22/20 14:48
VES After GAC-2	0F22013-02	Vapor	5	06/22/20 11:05	06/22/20 14:48

VOCs Gasoline Range Organics Vapor

VES After GAC-1	0F22013-01	Vapor	5	06/22/20 11:06	06/22/20 14:48
VES After GAC-2	0F22013-02	Vapor	5	06/22/20 11:05	06/22/20 14:48

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333625
Date Received: 06/22/20
Date Reported: 07/06/20
Sampled: 06/22/20
Prepared: 06/23/20
Analyzed: 06/23/20

VES After GAC-1
0F22013-01 (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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	99.0 %	70-140
Dibromofluoromethane	91.5 %	70-140
Toluene-d8	102 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333625
Date Received: 06/22/20
Date Reported: 07/06/20
Sampled: 06/22/20
Prepared: 06/23/20
Analyzed: 06/23/20

VES After GAC-2
0F22013-02 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	97.7 %	70-140
Dibromofluoromethane	89.8 %	70-140
Toluene-d8	99.1 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333625
Date Received: 06/22/20
Date Reported: 07/06/20
Sampled: 06/22/20
Prepared: 06/23/20
Analyzed: 06/23/20

VES After GAC-1
0F22013-01 (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		85.6 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333625
Date Received: 06/22/20
Date Reported: 07/06/20
Sampled: 06/22/20
Prepared: 06/23/20
Analyzed: 06/23/20

VES After GAC-2

0F22013-02 (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		86.8 %				70-130

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333625
Date Received: 06/22/20
Date Reported: 07/06/20
Units: ppmv

Date Sampled:	06/22/20	06/22/20	
Date Prepared:	06/23/20	06/23/20	
Date Analyzed:	06/23/20	06/23/20	
AA ID No:	0F22013-01	0F22013-02	
Client ID No:	VES After GAC-1	VES After GAC-2	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	<5.7	<5.7	5.7
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333625
Date Received: 06/22/20
Date Reported: 07/06/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0F2323 - *** DEFAULT PREP ***</i>										
Blank (B0F2323-BLK1)					Prepared & Analyzed: 06/23/20					
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	51.6		ug/L	50		103	70-140			
<i>Surrogate: Dibromofluoromethane</i>	47.7		ug/L	50		95.4	70-140			
<i>Surrogate: Toluene-d8</i>	51.9		ug/L	50		104	70-140			
LCS (B0F2323-BS1)					Prepared: 06/23/20 Analyzed: 06/24/20					
Benzene	19.7	0.50	ug/L	20		98.6	75-125			
Ethylbenzene	21.0	0.50	ug/L	20		105	75-125			
Methyl-tert-Butyl Ether (MTBE)	33.8	2.0	ug/L	40		84.5	75-125			
Toluene	21.8	0.50	ug/L	20		109	75-125			
o-Xylene	20.7	0.50	ug/L	20		104	75-125			
m,p-Xylenes	39.4	1.0	ug/L	40		98.4	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	50.4		ug/L	50		101	70-140			
<i>Surrogate: Dibromofluoromethane</i>	45.4		ug/L	50		90.8	70-140			
<i>Surrogate: Toluene-d8</i>	51.5		ug/L	50		103	70-140			
LCS Dup (B0F2323-BSD1)					Prepared: 06/23/20 Analyzed: 06/24/20					
Benzene	19.5	0.50	ug/L	20		97.7	75-125	0.866	30	
Ethylbenzene	20.9	0.50	ug/L	20		104	75-125	0.526	30	
Methyl-tert-Butyl Ether (MTBE)	34.1	2.0	ug/L	40		85.2	75-125	0.737	30	
Toluene	21.5	0.50	ug/L	20		108	75-125	1.34	30	
o-Xylene	21.0	0.50	ug/L	20		105	75-125	1.25	30	
m,p-Xylenes	39.5	1.0	ug/L	40		98.8	75-125	0.431	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	51.1		ug/L	50		102	70-140			
<i>Surrogate: Dibromofluoromethane</i>	45.6		ug/L	50		91.3	70-140			
<i>Surrogate: Toluene-d8</i>	52.1		ug/L	50		104	70-140			
Duplicate (B0F2323-DUP1)					Source: 0F22010-01 Prepared & Analyzed: 06/23/20					

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333625
Date Received: 06/22/20
Date Reported: 07/06/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0F2323 - *** DEFAULT PREP ***</i>										
Duplicate (B0F2323-DUP1) Continued Source: 0F22010-01 Prepared & Analyzed: 06/23/20										
Benzene	<0.50	0.50	ug/L		0.440			2.25	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	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.1</i>		<i>ug/L</i>	<i>50</i>		<i>100</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>46.4</i>		<i>ug/L</i>	<i>50</i>		<i>92.8</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>51.0</i>		<i>ug/L</i>	<i>50</i>		<i>102</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B0F2319 - *** DEFAULT PREP ***</i>										
Blank (B0F2319-BLK1) Prepared & Analyzed: 06/23/20										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>43.3</i>		<i>ug/L</i>	<i>50</i>		<i>86.7</i>	<i>70-130</i>			
LCS (B0F2319-BS1) Prepared & Analyzed: 06/23/20										
Gasoline Range Organics (GRO)	473	20	ug/L	500		94.7	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>50.9</i>		<i>ug/L</i>	<i>50</i>		<i>102</i>	<i>70-130</i>			
LCS Dup (B0F2319-BSD1) Prepared & Analyzed: 06/23/20										
Gasoline Range Organics (GRO)	467	20	ug/L	500		93.5	75-125	1.26	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>50.4</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-130</i>			
Duplicate (B0F2319-DUP1) Source: 0F22010-01 Prepared & Analyzed: 06/23/20										
Gasoline Range Organics (GRO)	105	20	ug/L		97.8			7.49	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>43.0</i>		<i>ug/L</i>	<i>50</i>		<i>86.1</i>	<i>70-130</i>			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0F2319 - *** DEFAULT PREP ***</i>										
Blank (B0F2319-BLK1) Prepared & Analyzed: 06/23/20										
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B0F2319-DUP1) Source: 0F22010-01 Prepared & Analyzed: 06/23/20										

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333625
Date Received: 06/22/20
Date Reported: 07/06/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0F2319 - *** DEFAULT PREP ***</i>										
Duplicate (B0F2319-DUP1) Continued Source: 0F22010-01 Prepared & Analyzed: 06/23/20										
GRO as Hexane	23.1	5.7	ppmv		21.5			7.32	30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333625
Date Received: 06/22/20
Date Reported: 07/06/20

Special Notes

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

Viorel Vasile
Operations Manager



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

April 30, 2020

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333472 / 0D15013**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 04/15/20 16:05 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

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: A5333472
Date Received: 04/15/20
Date Reported: 04/30/20

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

Thermox Influent	0D15013-01	Vapor	5	04/15/20 10:25	04/15/20 16:05
Thermox Effluent	0D15013-02	Vapor	5	04/15/20 10:20	04/15/20 16:05

VOCs BTEX/MTBE Vapor GC/MS

Thermox Influent	0D15013-01	Vapor	5	04/15/20 10:25	04/15/20 16:05
Thermox Effluent	0D15013-02	Vapor	5	04/15/20 10:20	04/15/20 16:05

VOCs Gasoline Range Organics Vapor

Thermox Influent	0D15013-01	Vapor	5	04/15/20 10:25	04/15/20 16:05
Thermox Effluent	0D15013-02	Vapor	5	04/15/20 10:20	04/15/20 16:05

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333472
Date Received: 04/15/20
Date Reported: 04/30/20
Sampled: 04/15/20
Prepared: 04/16/20
Analyzed: 04/16/20

Thermox Influent
0D15013-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	3.0	ug/L	0.50	0.94	ppmv	0.16
Ethylbenzene	0.80	ug/L	0.50	0.18	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	1.6	ug/L	0.50	0.42	ppmv	0.13
o-Xylene	1.1	ug/L	0.50	0.25	ppmv	0.12
m,p-Xylenes	2.4	ug/L	1.0	0.55	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	87.2 %	70-140
Dibromofluoromethane	90.6 %	70-140
Toluene-d8	93.9 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333472
Date Received: 04/15/20
Date Reported: 04/30/20
Sampled: 04/15/20
Prepared: 04/16/20
Analyzed: 04/16/20

Thermox Effluent
0D15013-02 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	90.6 %	70-140
Dibromofluoromethane	86.2 %	70-140
Toluene-d8	95.7 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 5
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333472
Date Received: 04/15/20
Date Reported: 04/30/20
Sampled: 04/15/20
Prepared: 04/16/20
Analyzed: 04/16/20

Thermox Influent
0D15013-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	3400	ug/L	20	830	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		114 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333472
Date Received: 04/15/20
Date Reported: 04/30/20
Sampled: 04/15/20
Prepared: 04/16/20
Analyzed: 04/16/20

Thermax Effluent
0D15013-02 (Vapor)

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

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333472
Date Received: 04/15/20
Date Reported: 04/30/20
Units: ppmv

Date Sampled:	04/15/20	04/15/20	
Date Prepared:	04/16/20	04/16/20	
Date Analyzed:	04/16/20	04/16/20	
AA ID No:	0D15013-01	0D15013-02	
Client ID No:	Thermox Influent	Thermox Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	5	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	740	<5.7	5.7
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333472
Date Received: 04/15/20
Date Reported: 04/30/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0D1616 - *** DEFAULT PREP ***</i>										
Blank (B0D1616-BLK1)					Prepared & Analyzed: 04/16/20					
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	44.6		ug/L	50		89.3	70-140			
<i>Surrogate: Dibromofluoromethane</i>	42.3		ug/L	50		84.6	70-140			
<i>Surrogate: Toluene-d8</i>	45.1		ug/L	50		90.2	70-140			
LCS (B0D1616-BS1)					Prepared & Analyzed: 04/16/20					
Benzene	18.8	0.50	ug/L	20		93.9	75-125			
Ethylbenzene	20.4	0.50	ug/L	20		102	75-125			
Methyl-tert-Butyl Ether (MTBE)	42.3	2.0	ug/L	40		106	75-125			
Toluene	20.1	0.50	ug/L	20		100	75-125			
o-Xylene	20.5	0.50	ug/L	20		102	75-125			
m,p-Xylenes	41.3	1.0	ug/L	40		103	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	43.2		ug/L	50		86.3	70-140			
<i>Surrogate: Dibromofluoromethane</i>	42.4		ug/L	50		84.8	70-140			
<i>Surrogate: Toluene-d8</i>	45.9		ug/L	50		91.8	70-140			
LCS Dup (B0D1616-BSD1)					Prepared & Analyzed: 04/16/20					
Benzene	18.7	0.50	ug/L	20		93.6	75-125	0.320	30	
Ethylbenzene	20.5	0.50	ug/L	20		103	75-125	0.342	30	
Methyl-tert-Butyl Ether (MTBE)	39.8	2.0	ug/L	40		99.6	75-125	5.90	30	
Toluene	20.2	0.50	ug/L	20		101	75-125	0.893	30	
o-Xylene	21.0	0.50	ug/L	20		105	75-125	2.46	30	
m,p-Xylenes	41.8	1.0	ug/L	40		105	75-125	1.35	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	42.4		ug/L	50		84.8	70-140			
<i>Surrogate: Dibromofluoromethane</i>	40.6		ug/L	50		81.3	70-140			
<i>Surrogate: Toluene-d8</i>	46.2		ug/L	50		92.4	70-140			
Duplicate (B0D1616-DUP1)					Source: 0D15015-02 Prepared & Analyzed: 04/16/20					

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5333472
Date Received: 04/15/20
Date Reported: 04/30/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0D1616 - *** DEFAULT PREP ***</i>										
Duplicate (B0D1616-DUP1) Continued Source: 0D15015-02 Prepared & Analyzed: 04/16/20										
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	
<i>Surrogate: 4-Bromofluorobenzene</i>	44.9		ug/L	50		89.8	70-140			
<i>Surrogate: Dibromofluoromethane</i>	44.0		ug/L	50		88.1	70-140			
<i>Surrogate: Toluene-d8</i>	46.6		ug/L	50		93.3	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B0D1615 - *** DEFAULT PREP ***</i>										
Blank (B0D1615-BLK1) Prepared & Analyzed: 04/16/20										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	51.3		ug/L	50		103	70-130			
LCS (B0D1615-BS1) Prepared & Analyzed: 04/16/20										
Gasoline Range Organics (GRO)	436	20	ug/L	500		87.2	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	54.4		ug/L	50		109	70-130			
LCS Dup (B0D1615-BSD1) Prepared & Analyzed: 04/16/20										
Gasoline Range Organics (GRO)	435	20	ug/L	500		87.0	75-125	0.240	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	56.8		ug/L	50		114	70-130			
Duplicate (B0D1615-DUP1) Source: 0D15014-01 Prepared & Analyzed: 04/16/20										
Gasoline Range Organics (GRO)	42.1	20	ug/L		39.3			6.98	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	50.7		ug/L	50		101	70-130			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0D1615 - *** DEFAULT PREP ***</i>										
Blank (B0D1615-BLK1) Prepared & Analyzed: 04/16/20										
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B0D1615-DUP1) Source: 0D15014-01 Prepared & Analyzed: 04/16/20										

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333472
Date Received: 04/15/20
Date Reported: 04/30/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0D1615 - *** DEFAULT PREP ***</i>										
Duplicate (B0D1615-DUP1) Continued Source: 0D15014-01 Prepared & Analyzed: 04/16/20										
GRO as Hexane	9.24	5.7	ppmv		8.57			7.43	30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333472
Date Received: 04/15/20
Date Reported: 04/30/20

Special Notes

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

Viorel Vasile
Operations Manager



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

May 26, 2020

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333548 / 0E15005**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 05/15/20 15:08 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

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: A5333548
Date Received: 05/15/20
Date Reported: 05/26/20

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

Thermox Influent	0E15005-01	Vapor	5	05/15/20 11:31	05/15/20 15:08
Thermox Effluent	0E15005-02	Vapor	5	05/15/20 11:27	05/15/20 15:08

VOCs BTEX/MTBE Vapor GC/MS

Thermox Influent	0E15005-01	Vapor	5	05/15/20 11:31	05/15/20 15:08
Thermox Effluent	0E15005-02	Vapor	5	05/15/20 11:27	05/15/20 15:08

VOCs Gasoline Range Organics Vapor

Thermox Influent	0E15005-01	Vapor	5	05/15/20 11:31	05/15/20 15:08
Thermox Effluent	0E15005-02	Vapor	5	05/15/20 11:27	05/15/20 15:08

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333548
Date Received: 05/15/20
Date Reported: 05/26/20
Sampled: 05/15/20
Prepared: 05/16/20
Analyzed: 05/16/20

Thermox Influent
0E15005-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	2.5	ug/L	0.50	0.78	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	1.8	ug/L	0.50	0.48	ppmv	0.13
o-Xylene	1.6	ug/L	0.50	0.37	ppmv	0.12
m,p-Xylenes	3.8	ug/L	1.0	0.88	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	97.3 %	70-140
Dibromofluoromethane	113 %	70-140
Toluene-d8	104 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333548
Date Received: 05/15/20
Date Reported: 05/26/20
Sampled: 05/15/20
Prepared: 05/16/20
Analyzed: 05/16/20

Thermax Effluent
0E15005-02 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	104 %	70-140
Dibromofluoromethane	109 %	70-140
Toluene-d8	103 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333548
Date Received: 05/15/20
Date Reported: 05/26/20
Sampled: 05/15/20
Prepared: 05/15/20
Analyzed: 05/15/20

Thermox Influent
0E15005-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	4600	ug/L	20	1100	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		104 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333548
Date Received: 05/15/20
Date Reported: 05/26/20
Sampled: 05/15/20
Prepared: 05/15/20
Analyzed: 05/15/20

Thermax Effluent
0E15005-02 (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		103 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333548
Date Received: 05/15/20
Date Reported: 05/26/20
Units: ppmv

Date Sampled:	05/15/20	05/15/20	
Date Prepared:	05/15/20	05/15/20	
Date Analyzed:	05/15/20	05/15/20	
AA ID No:	0E15005-01	0E15005-02	
Client ID No:	Thermox Influent	Thermox Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	10	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	960	<5.7	5.7
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333548
Date Received: 05/15/20
Date Reported: 05/26/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0E1602 - *** DEFAULT PREP ***</i>										
Blank (B0E1602-BLK1)					Prepared & Analyzed: 05/16/20					
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.0</i>		<i>ug/L</i>	<i>50</i>		<i>99.9</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>55.7</i>		<i>ug/L</i>	<i>50</i>		<i>111</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.4</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
LCS (B0E1602-BS1)					Prepared & Analyzed: 05/16/20					
Benzene	17.0	0.50	ug/L	20		84.8	75-125			
Ethylbenzene	21.9	0.50	ug/L	20		110	75-125			
Methyl-tert-Butyl Ether (MTBE)	37.7	2.0	ug/L	40		94.2	75-125			
Toluene	20.0	0.50	ug/L	20		100	75-125			
o-Xylene	20.5	0.50	ug/L	20		102	75-125			
m,p-Xylenes	42.3	1.0	ug/L	40		106	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.3</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>49.3</i>		<i>ug/L</i>	<i>50</i>		<i>98.7</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.6</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
LCS Dup (B0E1602-BSD1)					Prepared & Analyzed: 05/16/20					
Benzene	17.5	0.50	ug/L	20		87.6	75-125	3.25	30	
Ethylbenzene	21.7	0.50	ug/L	20		109	75-125	1.01	30	
Methyl-tert-Butyl Ether (MTBE)	38.8	2.0	ug/L	40		97.0	75-125	2.85	30	
Toluene	20.2	0.50	ug/L	20		101	75-125	1.24	30	
o-Xylene	20.8	0.50	ug/L	20		104	75-125	1.60	30	
m,p-Xylenes	42.5	1.0	ug/L	40		106	75-125	0.424	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.1</i>		<i>ug/L</i>	<i>50</i>		<i>100</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>50.4</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.5</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
Duplicate (B0E1602-DUP1)					Source: 0E15003-02 Prepared & Analyzed: 05/16/20					

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5333548
Date Received: 05/15/20
Date Reported: 05/26/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0E1602 - *** DEFAULT PREP ***</i>										
Duplicate (B0E1602-DUP1) Continued Source: 0E15003-02 Prepared & Analyzed: 05/16/20										
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	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>54.4</i>		<i>ug/L</i>	<i>50</i>		<i>109</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>58.4</i>		<i>ug/L</i>	<i>50</i>		<i>117</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>52.0</i>		<i>ug/L</i>	<i>50</i>		<i>104</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B0E1504 - *** DEFAULT PREP ***</i>										
Blank (B0E1504-BLK1) Prepared & Analyzed: 05/15/20										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>49.5</i>		<i>ug/L</i>	<i>50</i>		<i>99.0</i>	<i>70-130</i>			
LCS (B0E1504-BS1) Prepared & Analyzed: 05/15/20										
Gasoline Range Organics (GRO)	476	20	ug/L	500		95.1	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>57.7</i>		<i>ug/L</i>	<i>50</i>		<i>115</i>	<i>70-130</i>			
LCS Dup (B0E1504-BSD1) Prepared & Analyzed: 05/15/20										
Gasoline Range Organics (GRO)	468	20	ug/L	500		93.5	75-125	1.70	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>54.1</i>		<i>ug/L</i>	<i>50</i>		<i>108</i>	<i>70-130</i>			
Duplicate (B0E1504-DUP2) Source: 0E15002-01 Prepared & Analyzed: 05/15/20										
Gasoline Range Organics (GRO)	<20	20	ug/L						30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>51.0</i>		<i>ug/L</i>	<i>50</i>		<i>102</i>	<i>70-130</i>			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0E1504 - *** DEFAULT PREP ***</i>										
Blank (B0E1504-BLK1) Prepared & Analyzed: 05/15/20										
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B0E1504-DUP2) Source: 0E15002-01 Prepared & Analyzed: 05/15/20										

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333548
Date Received: 05/15/20
Date Reported: 05/26/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0E1504 - *** DEFAULT PREP ***</i>										
Duplicate (B0E1504-DUP2) Continued Source: 0E15002-01 Prepared & Analyzed: 05/15/20										
GRO as Hexane	<5.7	5.7	ppmv						30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333548
Date Received: 05/15/20
Date Reported: 05/26/20

Special Notes

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

Viorel Vasile
Operations Manager



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

July 06, 2020

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333624 / 0F22012**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 06/22/20 14:48 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333624
Date Received: 06/22/20
Date Reported: 07/06/20

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

Thermox Influent	0F22012-01	Vapor	5	06/22/20 09:55	06/22/20 14:48
Thermox Effluent	0F22012-02	Vapor	5	06/22/20 09:47	06/22/20 14:48

VOCs BTEX/MTBE Vapor GC/MS

Thermox Influent	0F22012-01	Vapor	5	06/22/20 09:55	06/22/20 14:48
Thermox Effluent	0F22012-02	Vapor	5	06/22/20 09:47	06/22/20 14:48

VOCs Gasoline Range Organics Vapor

Thermox Influent	0F22012-01	Vapor	5	06/22/20 09:55	06/22/20 14:48
Thermox Effluent	0F22012-02	Vapor	5	06/22/20 09:47	06/22/20 14:48

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333624
Date Received: 06/22/20
Date Reported: 07/06/20
Sampled: 06/22/20
Prepared: 06/23/20
Analyzed: 06/23/20

Thermox Influent
0F22012-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	4.9	ug/L	0.50	1.5	ppmv	0.16
Ethylbenzene	0.86	ug/L	0.50	0.20	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	1.2	ug/L	0.50	0.32	ppmv	0.13
o-Xylene	1.3	ug/L	0.50	0.30	ppmv	0.12
m,p-Xylenes	2.6	ug/L	1.0	0.60	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	96.4 %	70-140
Dibromofluoromethane	91.7 %	70-140
Toluene-d8	100 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333624
Date Received: 06/22/20
Date Reported: 07/06/20
Sampled: 06/22/20
Prepared: 06/23/20
Analyzed: 06/23/20

Thermax Effluent
0F22012-02 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	105 %	70-140
Dibromofluoromethane	106 %	70-140
Toluene-d8	102 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333624
Date Received: 06/22/20
Date Reported: 07/06/20
Sampled: 06/22/20
Prepared: 06/24/20
Analyzed: 06/24/20

**Thermox Influent
0F22012-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	7700	ug/L	20	1900	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		98.0 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333624
Date Received: 06/22/20
Date Reported: 07/06/20
Sampled: 06/22/20
Prepared: 06/24/20
Analyzed: 06/24/20

Thermax Effluent
0F22012-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		80.3 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333624
Date Received: 06/22/20
Date Reported: 07/06/20
Units: ppmv

Date Sampled:	06/22/20	06/22/20	
Date Prepared:	06/24/20	06/24/20	
Date Analyzed:	06/24/20	06/24/20	
AA ID No:	0F22012-01	0F22012-02	
Client ID No:	Thermox Influent	Thermox Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	10	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	1700	<5.7	5.7
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333624
Date Received: 06/22/20
Date Reported: 07/06/20

Table with 10 columns: 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 B0F2323 - *** DEFAULT PREP ***

Blank (B0F2323-BLK1)

Prepared & Analyzed: 06/23/20

Table with 4 columns: Analyte, Result, Reporting Limit, Units. Rows include Benzene, Ethylbenzene, Methyl-tert-Butyl Ether (MTBE), Toluene, o-Xylene, m,p-Xylenes.

Table with 6 columns: Analyte, Result, Reporting Limit, Units, Spike Level, %REC. Rows include Surrogate: 4-Bromofluorobenzene, Surrogate: Dibromofluoromethane, Surrogate: Toluene-d8.

LCS (B0F2323-BS1)

Prepared: 06/23/20 Analyzed: 06/24/20

Table with 4 columns: Analyte, Result, Reporting Limit, Units. Rows include Benzene, Ethylbenzene, Methyl-tert-Butyl Ether (MTBE), Toluene, o-Xylene, m,p-Xylenes.

Table with 6 columns: Analyte, Result, Reporting Limit, Units, Spike Level, %REC. Rows include Surrogate: 4-Bromofluorobenzene, Surrogate: Dibromofluoromethane, Surrogate: Toluene-d8.

LCS Dup (B0F2323-BSD1)

Prepared: 06/23/20 Analyzed: 06/24/20

Table with 4 columns: Analyte, Result, Reporting Limit, Units. Rows include Benzene, Ethylbenzene, Methyl-tert-Butyl Ether (MTBE), Toluene, o-Xylene, m,p-Xylenes.

Table with 6 columns: Analyte, Result, Reporting Limit, Units, Spike Level, %REC. Rows include Surrogate: 4-Bromofluorobenzene, Surrogate: Dibromofluoromethane, Surrogate: Toluene-d8.

Duplicate (B0F2323-DUP1) Source: 0F22010-01 Prepared & Analyzed: 06/23/20

Handwritten signature

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: A5333624
Date Received: 06/22/20
Date Reported: 07/06/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0F2323 - *** DEFAULT PREP ***</i>										
Duplicate (B0F2323-DUP1) Continued Source: 0F22010-01 Prepared & Analyzed: 06/23/20										
Benzene	<0.50	0.50	ug/L		0.440			2.25	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	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.1</i>		<i>ug/L</i>	<i>50</i>		<i>100</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>46.4</i>		<i>ug/L</i>	<i>50</i>		<i>92.8</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>51.0</i>		<i>ug/L</i>	<i>50</i>		<i>102</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B0F2417 - *** DEFAULT PREP ***</i>										
Blank (B0F2417-BLK1) Prepared & Analyzed: 06/24/20										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>42.5</i>		<i>ug/L</i>	<i>50</i>		<i>84.9</i>	<i>70-130</i>			
LCS (B0F2417-BS1) Prepared & Analyzed: 06/24/20										
Gasoline Range Organics (GRO)	472	20	ug/L	500		94.4	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>48.8</i>		<i>ug/L</i>	<i>50</i>		<i>97.5</i>	<i>70-130</i>			
LCS Dup (B0F2417-BSD1) Prepared & Analyzed: 06/24/20										
Gasoline Range Organics (GRO)	464	20	ug/L	500		92.9	75-125	1.62	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>49.5</i>		<i>ug/L</i>	<i>50</i>		<i>98.9</i>	<i>70-130</i>			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0F2417 - *** DEFAULT PREP ***</i>										
Blank (B0F2417-BLK1) Prepared & Analyzed: 06/24/20										
GRO as Hexane	<5.7	5.7	ppmv							

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: A5333624
Date Received: 06/22/20
Date Reported: 07/06/20

Special Notes

A handwritten signature in black ink, appearing to be 'VA' or similar, located above the name Viorel Vasile.

Viorel Vasile
Operations Manager



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

May 27, 2020

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333549 / 0E15006**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 05/15/20 15:08 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

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: A5333549
Date Received: 05/15/20
Date Reported: 05/27/20

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

HW-1	0E15006-01	Vapor	5	05/15/20 08:40	05/15/20 15:08
HW-5	0E15006-02	Vapor	5	05/15/20 08:44	05/15/20 15:08
HW-7	0E15006-03	Vapor	5	05/15/20 08:49	05/15/20 15:08
HW-8	0E15006-04	Vapor	5	05/15/20 09:43	05/15/20 15:08
HW-9	0E15006-05	Vapor	5	05/15/20 09:48	05/15/20 15:08

VOCs BTEX/MTBE Vapor GC/MS

HW-1	0E15006-01	Vapor	5	05/15/20 08:40	05/15/20 15:08
HW-5	0E15006-02	Vapor	5	05/15/20 08:44	05/15/20 15:08
HW-7	0E15006-03	Vapor	5	05/15/20 08:49	05/15/20 15:08
HW-8	0E15006-04	Vapor	5	05/15/20 09:43	05/15/20 15:08
HW-9	0E15006-05	Vapor	5	05/15/20 09:48	05/15/20 15:08

VOCs Gasoline Range Organics Vapor

HW-1	0E15006-01	Vapor	5	05/15/20 08:40	05/15/20 15:08
HW-5	0E15006-02	Vapor	5	05/15/20 08:44	05/15/20 15:08
HW-7	0E15006-03	Vapor	5	05/15/20 08:49	05/15/20 15:08
HW-8	0E15006-04	Vapor	5	05/15/20 09:43	05/15/20 15:08
HW-9	0E15006-05	Vapor	5	05/15/20 09:48	05/15/20 15:08

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333549
Date Received: 05/15/20
Date Reported: 05/27/20
Sampled: 05/15/20
Prepared: 05/16/20
Analyzed: 05/16/20

HW-1

0E15006-01 (Vapor)

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

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	104 %	70-140
Dibromofluoromethane	108 %	70-140
Toluene-d8	105 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333549
Date Received: 05/15/20
Date Reported: 05/27/20
Sampled: 05/15/20
Prepared: 05/16/20
Analyzed: 05/16/20

HW-5

0E15006-02 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	104 %	70-140
Dibromofluoromethane	110 %	70-140
Toluene-d8	104 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	AA Project No:	A5333549
Project No:	04-NDLA-013	Date Received:	05/15/20
Project Name:	DFSP Norwalk VES AQMD	Date Reported:	05/27/20
Matrix:	Vapor	Sampled:	05/15/20
Dilution:	1	Prepared:	05/16/20
Method:	VOCs BTEX/MTBE Vapor by GC/MS 8260M	Analyzed:	05/16/20

HW-7

0E15006-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	2.6	ug/L	0.50	0.81	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	2.6	ug/L	0.50	0.69	ppmv	0.13
o-Xylene	0.54	ug/L	0.50	0.12	ppmv	0.12
m,p-Xylenes	1.2	ug/L	1.0	0.28	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	103 %	70-140
Dibromofluoromethane	113 %	70-140
Toluene-d8	101 %	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333549
Date Received: 05/15/20
Date Reported: 05/27/20
Sampled: 05/15/20
Prepared: 05/16/20
Analyzed: 05/16/20

HW-8

0E15006-04 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	107 %	70-140
Dibromofluoromethane	112 %	70-140
Toluene-d8	103 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333549
Date Received: 05/15/20
Date Reported: 05/27/20
Sampled: 05/15/20
Prepared: 05/16/20
Analyzed: 05/16/20

HW-9

0E15006-05 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	97.6 %	70-140
Dibromofluoromethane	115 %	70-140
Toluene-d8	104 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333549
Date Received: 05/15/20
Date Reported: 05/27/20
Sampled: 05/15/20
Prepared: 05/18/20
Analyzed: 05/18/20

HW-1

0E15006-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	100	ug/L	20	24	ppmv	4.9
Surrogates		%REC				%REC Limits
a,a,a-Trifluorotoluene		103 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333549
Date Received: 05/15/20
Date Reported: 05/27/20
Sampled: 05/15/20
Prepared: 05/18/20
Analyzed: 05/18/20

HW-5

0E15006-02 (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		104 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333549
Date Received: 05/15/20
Date Reported: 05/27/20
Sampled: 05/15/20
Prepared: 05/18/20
Analyzed: 05/18/20

HW-7

0E15006-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	760	ug/L	20	190	ppmv	4.9
<u>Surrogates</u>						
a,a,a-Trifluorotoluene		<u>%REC</u>				<u>%REC Limits</u>
		118 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333549
Date Received: 05/15/20
Date Reported: 05/27/20
Sampled: 05/15/20
Prepared: 05/18/20
Analyzed: 05/18/20

HW-8

0E15006-04 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		93.5 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333549
Date Received: 05/15/20
Date Reported: 05/27/20
Sampled: 05/15/20
Prepared: 05/18/20
Analyzed: 05/18/20

HW-9

0E15006-05 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	2100	ug/L	20	510	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		106 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333549
Date Received: 05/15/20
Date Reported: 05/27/20
Units: ppmv

Date Sampled:	05/15/20	05/15/20	05/15/20	05/15/20	
Date Prepared:	05/18/20	05/18/20	05/18/20	05/18/20	
Date Analyzed:	05/18/20	05/18/20	05/18/20	05/18/20	
AA ID No:	0E15006-01	0E15006-02	0E15006-03	0E15006-04	
Client ID No:	HW-1	HW-5	HW-7	HW-8	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	23	<5.7	170	<5.7	5.7
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333549
Date Received: 05/15/20
Date Reported: 05/27/20
Units: ppmv

Date Sampled:	05/15/20	
Date Prepared:	05/18/20	
Date Analyzed:	05/18/20	
AA ID No:	0E15006-05	
Client ID No:	HW-9	
Matrix:	Vapor	
Dilution Factor:	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	450	5.7
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333549
Date Received: 05/15/20
Date Reported: 05/27/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0E1602 - *** DEFAULT PREP ***</i>										
Blank (B0E1602-BLK1)				Prepared & Analyzed: 05/16/20						
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.0</i>		<i>ug/L</i>	<i>50</i>		<i>99.9</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>55.7</i>		<i>ug/L</i>	<i>50</i>		<i>111</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.4</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
LCS (B0E1602-BS1)				Prepared & Analyzed: 05/16/20						
Benzene	17.0	0.50	ug/L	20		84.8	75-125			
Ethylbenzene	21.9	0.50	ug/L	20		110	75-125			
Methyl-tert-Butyl Ether (MTBE)	37.7	2.0	ug/L	40		94.2	75-125			
Toluene	20.0	0.50	ug/L	20		100	75-125			
o-Xylene	20.5	0.50	ug/L	20		102	75-125			
m,p-Xylenes	42.3	1.0	ug/L	40		106	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.3</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>49.3</i>		<i>ug/L</i>	<i>50</i>		<i>98.7</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.6</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
LCS Dup (B0E1602-BSD1)				Prepared & Analyzed: 05/16/20						
Benzene	17.5	0.50	ug/L	20		87.6	75-125	3.25	30	
Ethylbenzene	21.7	0.50	ug/L	20		109	75-125	1.01	30	
Methyl-tert-Butyl Ether (MTBE)	38.8	2.0	ug/L	40		97.0	75-125	2.85	30	
Toluene	20.2	0.50	ug/L	20		101	75-125	1.24	30	
o-Xylene	20.8	0.50	ug/L	20		104	75-125	1.60	30	
m,p-Xylenes	42.5	1.0	ug/L	40		106	75-125	0.424	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.1</i>		<i>ug/L</i>	<i>50</i>		<i>100</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>50.4</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.5</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
Duplicate (B0E1602-DUP1)				Source: 0E15003-02 Prepared & Analyzed: 05/16/20						

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333549
Date Received: 05/15/20
Date Reported: 05/27/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0E1602 - *** DEFAULT PREP ***</i>										
Duplicate (B0E1602-DUP1) Continued Source: 0E15003-02 Prepared & Analyzed: 05/16/20										
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	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>54.4</i>		<i>ug/L</i>	<i>50</i>		<i>109</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>58.4</i>		<i>ug/L</i>	<i>50</i>		<i>117</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>52.0</i>		<i>ug/L</i>	<i>50</i>		<i>104</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B0E1807 - *** DEFAULT PREP ***</i>										
Blank (B0E1807-BLK1) Prepared & Analyzed: 05/18/20										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>45.6</i>		<i>ug/L</i>	<i>50</i>		<i>91.2</i>	<i>70-130</i>			
LCS (B0E1807-BS1) Prepared & Analyzed: 05/18/20										
Gasoline Range Organics (GRO)	457	20	ug/L	500		91.3	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>58.1</i>		<i>ug/L</i>	<i>50</i>		<i>116</i>	<i>70-130</i>			
LCS Dup (B0E1807-BSD1) Prepared & Analyzed: 05/18/20										
Gasoline Range Organics (GRO)	483	20	ug/L	500		96.7	75-125	5.69	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>58.5</i>		<i>ug/L</i>	<i>50</i>		<i>117</i>	<i>70-130</i>			
Duplicate (B0E1807-DUP1) Source: 0E15007-02 Prepared & Analyzed: 05/18/20										
Gasoline Range Organics (GRO)	2890	200	ug/L		2400			18.6	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>54.9</i>		<i>ug/L</i>	<i>50</i>		<i>110</i>	<i>70-130</i>			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0E1807 - *** DEFAULT PREP ***</i>										
Blank (B0E1807-BLK1) Prepared & Analyzed: 05/18/20										
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B0E1807-DUP1) Source: 0E15007-02 Prepared & Analyzed: 05/18/20										

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333549
Date Received: 05/15/20
Date Reported: 05/27/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0E1807 - *** DEFAULT PREP ***</i>										
Duplicate (B0E1807-DUP1) Continued Source: 0E15007-02 Prepared & Analyzed: 05/18/20										
GRO as Hexane	608	57	ppmv		513			16.9	30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333549
Date Received: 05/15/20
Date Reported: 05/27/20

Special Notes

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

Viorel Vasile
Operations Manager



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

May 27, 2020

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333550 / 0E15007**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 05/15/20 15:08 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333550
Date Received: 05/15/20
Date Reported: 05/27/20

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

Trunkline#1(East)	0E15007-01	Vapor	5	05/15/20 11:38	05/15/20 15:08
Trunkline#2(South)	0E15007-02	Vapor	5	05/15/20 11:43	05/15/20 15:08
Trunkline#3(Central S)	0E15007-03	Vapor	5	05/15/20 11:46	05/15/20 15:08
Trunkline#4(Central E)	0E15007-04	Vapor	5	05/15/20 11:48	05/15/20 15:08
Trunkline#5(Central W)	0E15007-05	Vapor	5	05/15/20 11:50	05/15/20 15:08

VOCs BTEX/MTBE Vapor GC/MS

Trunkline#1(East)	0E15007-01	Vapor	5	05/15/20 11:38	05/15/20 15:08
Trunkline#2(South)	0E15007-02	Vapor	5	05/15/20 11:43	05/15/20 15:08
Trunkline#3(Central S)	0E15007-03	Vapor	5	05/15/20 11:46	05/15/20 15:08
Trunkline#4(Central E)	0E15007-04	Vapor	5	05/15/20 11:48	05/15/20 15:08
Trunkline#5(Central W)	0E15007-05	Vapor	5	05/15/20 11:50	05/15/20 15:08

VOCs Gasoline Range Organics Vapor

Trunkline#1(East)	0E15007-01	Vapor	5	05/15/20 11:38	05/15/20 15:08
Trunkline#2(South)	0E15007-02	Vapor	5	05/15/20 11:43	05/15/20 15:08
Trunkline#3(Central S)	0E15007-03	Vapor	5	05/15/20 11:46	05/15/20 15:08
Trunkline#4(Central E)	0E15007-04	Vapor	5	05/15/20 11:48	05/15/20 15:08
Trunkline#5(Central W)	0E15007-05	Vapor	5	05/15/20 11:50	05/15/20 15:08

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333550
Date Received: 05/15/20
Date Reported: 05/27/20
Sampled: 05/15/20
Prepared: 05/16/20
Analyzed: 05/16/20

Trunkline#1(East)
0E15007-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	1.1	ug/L	0.50	0.34	ppmv	0.16
Ethylbenzene	1.7	ug/L	0.50	0.39	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	2.6	ug/L	0.50	0.69	ppmv	0.13
o-Xylene	2.0	ug/L	0.50	0.46	ppmv	0.12
m,p-Xylenes	4.5	ug/L	1.0	1.0	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	97.3 %	70-140
Dibromofluoromethane	110 %	70-140
Toluene-d8	104 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client:	The Source Group, Inc. (SH)	AA Project No:	A5333550
Project No:	04-NDLA-013	Date Received:	05/15/20
Project Name:	DFSP Norwalk VES AQMD	Date Reported:	05/27/20
Matrix:	Vapor	Sampled:	05/15/20
Dilution:	1	Prepared:	05/16/20
Method:	VOCs BTEX/MTBE Vapor by GC/MS 8260M	Analyzed:	05/16/20

Trunkline#2(South)

0E15007-02 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	98.1 %	70-140
Dibromofluoromethane	107 %	70-140
Toluene-d8	106 %	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 2
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5333550
Date Received: 05/15/20
Date Reported: 05/27/20
Sampled: 05/15/20
Prepared: 05/16/20
Analyzed: 05/16/20

Trunkline#3(Central S)

0E15007-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	8.1	ug/L	0.50	2.5	ppmv	0.16
Ethylbenzene	<1.0	ug/L	0.50	<0.23	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<4.0	ug/L	2.0	<1.1	ppmv	0.55
Toluene	1.5	ug/L	0.50	0.40	ppmv	0.13
o-Xylene	1.6	ug/L	0.50	0.37	ppmv	0.12
m,p-Xylenes	2.6	ug/L	1.0	0.60	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	99.0 %	70-140
Dibromofluoromethane	110 %	70-140
Toluene-d8	102 %	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333550
Date Received: 05/15/20
Date Reported: 05/27/20
Sampled: 05/15/20
Prepared: 05/16/20
Analyzed: 05/16/20

Trunkline#4(Central E)

0E15007-04 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	5.8	ug/L	0.50	1.8	ppmv	0.16
Ethylbenzene	5.1	ug/L	0.50	1.2	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	11	ug/L	0.50	2.9	ppmv	0.13
o-Xylene	7.3	ug/L	0.50	1.7	ppmv	0.12
m,p-Xylenes	20	ug/L	1.0	4.6	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	94.3 %	70-140
Dibromofluoromethane	107 %	70-140
Toluene-d8	104 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333550
Date Received: 05/15/20
Date Reported: 05/27/20
Sampled: 05/15/20
Prepared: 05/16/20
Analyzed: 05/16/20

Trunkline#5(Central W)

0E15007-05 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.50	ug/L	0.50	<0.16	ppmv	0.16
Ethylbenzene	0.72	ug/L	0.50	0.17	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	1.2	ug/L	1.0	0.28	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	97.6 %	70-140
Dibromofluoromethane	110 %	70-140
Toluene-d8	104 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333550
Date Received: 05/15/20
Date Reported: 05/27/20
Sampled: 05/15/20
Prepared: 05/18/20
Analyzed: 05/18/20

Trunkline#1(East)
0E15007-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	6000	ug/L	20	1500	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		109 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333550
Date Received: 05/15/20
Date Reported: 05/27/20
Sampled: 05/15/20
Prepared: 05/18/20
Analyzed: 05/18/20

Trunkline#2(South)

0E15007-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	2400	ug/L	20	590	ppmv	4.9
Surrogates		%REC				%REC Limits
a,a,a-Trifluorotoluene		106 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk VES AQMD

Matrix: Vapor

Dilution: 10

Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333550

Date Received: 05/15/20

Date Reported: 05/27/20

Sampled: 05/15/20

Prepared: 05/18/20

Analyzed: 05/18/20

Trunkline#3(Central S)

0E15007-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	5300	ug/L	20	1300	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		108 %				70-130

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk VES AQMD

Matrix: Vapor

Dilution: 10

Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333550

Date Received: 05/15/20

Date Reported: 05/27/20

Sampled: 05/15/20

Prepared: 05/18/20

Analyzed: 05/18/20

Trunkline#4(Central E)

0E15007-04 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	9700	ug/L	20	2400	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		117 %				70-130

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333550
Date Received: 05/15/20
Date Reported: 05/27/20
Sampled: 05/15/20
Prepared: 05/18/20
Analyzed: 05/18/20

Trunkline#5(Central W)

0E15007-05 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	3900	ug/L	20	950	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		112 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333550
Date Received: 05/15/20
Date Reported: 05/27/20
Units: ppmv

Date Sampled:	05/15/20	05/15/20	05/15/20	05/15/20	
Date Prepared:	05/18/20	05/18/20	05/18/20	05/18/20	
Date Analyzed:	05/18/20	05/18/20	05/18/20	05/18/20	
AA ID No:	0E15007-01	0E15007-02	0E15007-03	0E15007-04	
Client ID No:	Trunkline#1(East)	Trunkline#2(South)	Trunkline#3(Centr al S)	Trunkline#4(Centr al E)	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	10	10	10	10	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	1300	510	1200	2100	5.7
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333550
Date Received: 05/15/20
Date Reported: 05/27/20
Units: ppmv

Date Sampled:	05/15/20	
Date Prepared:	05/18/20	
Date Analyzed:	05/18/20	
AA ID No:	0E15007-05	
Client ID No:	Trunkline#5(Centr al W)	
Matrix:	Vapor	
Dilution Factor:	10	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	850	5.7
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333550
Date Received: 05/15/20
Date Reported: 05/27/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0E1602 - *** DEFAULT PREP ***</i>										
Blank (B0E1602-BLK1)					Prepared & Analyzed: 05/16/20					
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.0</i>		<i>ug/L</i>	<i>50</i>		<i>99.9</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>55.7</i>		<i>ug/L</i>	<i>50</i>		<i>111</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.4</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
LCS (B0E1602-BS1)					Prepared & Analyzed: 05/16/20					
Benzene	17.0	0.50	ug/L	20		84.8	75-125			
Ethylbenzene	21.9	0.50	ug/L	20		110	75-125			
Methyl-tert-Butyl Ether (MTBE)	37.7	2.0	ug/L	40		94.2	75-125			
Toluene	20.0	0.50	ug/L	20		100	75-125			
o-Xylene	20.5	0.50	ug/L	20		102	75-125			
m,p-Xylenes	42.3	1.0	ug/L	40		106	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.3</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>49.3</i>		<i>ug/L</i>	<i>50</i>		<i>98.7</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.6</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
LCS Dup (B0E1602-BSD1)					Prepared & Analyzed: 05/16/20					
Benzene	17.5	0.50	ug/L	20		87.6	75-125	3.25	30	
Ethylbenzene	21.7	0.50	ug/L	20		109	75-125	1.01	30	
Methyl-tert-Butyl Ether (MTBE)	38.8	2.0	ug/L	40		97.0	75-125	2.85	30	
Toluene	20.2	0.50	ug/L	20		101	75-125	1.24	30	
o-Xylene	20.8	0.50	ug/L	20		104	75-125	1.60	30	
m,p-Xylenes	42.5	1.0	ug/L	40		106	75-125	0.424	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.1</i>		<i>ug/L</i>	<i>50</i>		<i>100</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>50.4</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.5</i>		<i>ug/L</i>	<i>50</i>		<i>101</i>	<i>70-140</i>			
Duplicate (B0E1602-DUP1)					Source: 0E15003-02 Prepared & Analyzed: 05/16/20					

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5333550
Date Received: 05/15/20
Date Reported: 05/27/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0E1602 - *** DEFAULT PREP ***</i>										
Duplicate (B0E1602-DUP1) Continued Source: 0E15003-02 Prepared & Analyzed: 05/16/20										
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	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>54.4</i>		<i>ug/L</i>	<i>50</i>		<i>109</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>58.4</i>		<i>ug/L</i>	<i>50</i>		<i>117</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>52.0</i>		<i>ug/L</i>	<i>50</i>		<i>104</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B0E1807 - *** DEFAULT PREP ***</i>										
Blank (B0E1807-BLK1) Prepared & Analyzed: 05/18/20										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>45.6</i>		<i>ug/L</i>	<i>50</i>		<i>91.2</i>	<i>70-130</i>			
LCS (B0E1807-BS1) Prepared & Analyzed: 05/18/20										
Gasoline Range Organics (GRO)	457	20	ug/L	500		91.3	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>58.1</i>		<i>ug/L</i>	<i>50</i>		<i>116</i>	<i>70-130</i>			
LCS Dup (B0E1807-BSD1) Prepared & Analyzed: 05/18/20										
Gasoline Range Organics (GRO)	483	20	ug/L	500		96.7	75-125	5.69	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>58.5</i>		<i>ug/L</i>	<i>50</i>		<i>117</i>	<i>70-130</i>			
Duplicate (B0E1807-DUP1) Source: 0E15007-02 Prepared & Analyzed: 05/18/20										
Gasoline Range Organics (GRO)	2890	200	ug/L		2400			18.6	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>54.9</i>		<i>ug/L</i>	<i>50</i>		<i>110</i>	<i>70-130</i>			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0E1807 - *** DEFAULT PREP ***</i>										
Blank (B0E1807-BLK1) Prepared & Analyzed: 05/18/20										
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B0E1807-DUP1) Source: 0E15007-02 Prepared & Analyzed: 05/18/20										

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333550
Date Received: 05/15/20
Date Reported: 05/27/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0E1807 - *** DEFAULT PREP ***</i>										
Duplicate (B0E1807-DUP1) Continued Source: 0E15007-02 Prepared & Analyzed: 05/18/20										
GRO as Hexane	608	57	ppmv		513			16.9	30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333550
Date Received: 05/15/20
Date Reported: 05/27/20

Special Notes

A handwritten signature in black ink, appearing to be 'VA' or similar, written over a horizontal line.

Viorel Vasile
Operations Manager



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

July 06, 2020

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5333623 / 0F22011**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 06/22/20 14:48 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333623
Date Received: 06/22/20
Date Reported: 07/06/20

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

Trunkline#1(East)	0F22011-01	Vapor	5	06/22/20 11:33	06/22/20 14:48
Trunkline#2(South)	0F22011-02	Vapor	5	06/22/20 11:30	06/22/20 14:48
Trunkline#3(Central S)	0F22011-03	Vapor	5	06/22/20 11:39	06/22/20 14:48
Trunkline#4(Central E)	0F22011-04	Vapor	5	06/22/20 11:37	06/22/20 14:48
Trunkline#5(Central W)	0F22011-05	Vapor	5	06/22/20 11:35	06/22/20 14:48

VOCs BTEX/MTBE Vapor GC/MS

Trunkline#1(East)	0F22011-01	Vapor	5	06/22/20 11:33	06/22/20 14:48
Trunkline#2(South)	0F22011-02	Vapor	5	06/22/20 11:30	06/22/20 14:48
Trunkline#3(Central S)	0F22011-03	Vapor	5	06/22/20 11:39	06/22/20 14:48
Trunkline#4(Central E)	0F22011-04	Vapor	5	06/22/20 11:37	06/22/20 14:48
Trunkline#5(Central W)	0F22011-05	Vapor	5	06/22/20 11:35	06/22/20 14:48

VOCs Gasoline Range Organics Vapor

Trunkline#1(East)	0F22011-01	Vapor	5	06/22/20 11:33	06/22/20 14:48
Trunkline#2(South)	0F22011-02	Vapor	5	06/22/20 11:30	06/22/20 14:48
Trunkline#3(Central S)	0F22011-03	Vapor	5	06/22/20 11:39	06/22/20 14:48
Trunkline#4(Central E)	0F22011-04	Vapor	5	06/22/20 11:37	06/22/20 14:48
Trunkline#5(Central W)	0F22011-05	Vapor	5	06/22/20 11:35	06/22/20 14:48

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333623
Date Received: 06/22/20
Date Reported: 07/06/20
Sampled: 06/22/20
Prepared: 06/23/20
Analyzed: 06/23/20

Trunkline#1(East)
0F22011-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	1.4	ug/L	0.50	0.44	ppmv	0.16
Ethylbenzene	1.3	ug/L	0.50	0.30	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	2.3	ug/L	0.50	0.61	ppmv	0.13
o-Xylene	1.2	ug/L	0.50	0.28	ppmv	0.12
m,p-Xylenes	3.2	ug/L	1.0	0.74	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	96.7 %	70-140
Dibromofluoromethane	90.7 %	70-140
Toluene-d8	101 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333623
Date Received: 06/22/20
Date Reported: 07/06/20
Sampled: 06/22/20
Prepared: 06/23/20
Analyzed: 06/23/20

Trunkline#2(South)

0F22011-02 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	98.3 %	70-140
Dibromofluoromethane	86.7 %	70-140
Toluene-d8	99.8 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333623
Date Received: 06/22/20
Date Reported: 07/06/20
Sampled: 06/22/20
Prepared: 06/23/20
Analyzed: 06/23/20

Trunkline#3(Central S)
0F22011-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	42	ug/L	0.50	13	ppmv	0.16
Ethylbenzene	3.8	ug/L	0.50	0.88	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	4.5	ug/L	0.50	1.2	ppmv	0.13
o-Xylene	7.1	ug/L	0.50	1.6	ppmv	0.12
m,p-Xylenes	9.5	ug/L	1.0	2.2	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	101 %	70-140
Dibromofluoromethane	77.3 %	70-140
Toluene-d8	101 %	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333623
Date Received: 06/22/20
Date Reported: 07/06/20
Sampled: 06/22/20
Prepared: 06/23/20
Analyzed: 06/23/20

Trunkline#4(Central E)

0F22011-04 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	4.4	ug/L	0.50	1.4	ppmv	0.16
Ethylbenzene	3.9	ug/L	0.50	0.90	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	6.8	ug/L	0.50	1.8	ppmv	0.13
o-Xylene	6.8	ug/L	0.50	1.6	ppmv	0.12
m,p-Xylenes	16	ug/L	1.0	3.7	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	102 %	70-140
Dibromofluoromethane	88.4 %	70-140
Toluene-d8	99.8 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333623
Date Received: 06/22/20
Date Reported: 07/06/20
Sampled: 06/22/20
Prepared: 06/23/20
Analyzed: 06/23/20

Trunkline#5(Central W)
0F22011-05 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	1.5	ug/L	0.50	0.47	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	96.7 %	70-140
Dibromofluoromethane	87.0 %	70-140
Toluene-d8	101 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333623
Date Received: 06/22/20
Date Reported: 07/06/20
Sampled: 06/22/20
Prepared: 06/24/20
Analyzed: 06/24/20

Trunkline#1(East)
0F22011-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	4900	ug/L	20	1200	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		91.6 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333623
Date Received: 06/22/20
Date Reported: 07/06/20
Sampled: 06/22/20
Prepared: 06/24/20
Analyzed: 06/24/20

Trunkline#2(South)

0F22011-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	3200	ug/L	20	780	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		88.7 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333623
Date Received: 06/22/20
Date Reported: 07/06/20
Sampled: 06/22/20
Prepared: 06/24/20
Analyzed: 06/24/20

Trunkline#3(Central S)

0F22011-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	33000	ug/L	20	8100	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		106 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)

Project No: 04-NDLA-013

Project Name: DFSP Norwalk VES AQMD

Matrix: Vapor

Dilution: 10

Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5333623

Date Received: 06/22/20

Date Reported: 07/06/20

Sampled: 06/22/20

Prepared: 06/24/20

Analyzed: 06/24/20

Trunkline#4(Central E)

0F22011-04 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	13000	ug/L	20	3200	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		98.6 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333623
Date Received: 06/22/20
Date Reported: 07/06/20
Sampled: 06/22/20
Prepared: 06/24/20
Analyzed: 06/24/20

Trunkline#5(Central W)

0F22011-05 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	6000	ug/L	20	1500	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		82.5 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333623
Date Received: 06/22/20
Date Reported: 07/06/20
Units: ppmv

Date Sampled:	06/22/20	06/22/20	06/22/20	06/22/20	
Date Prepared:	06/24/20	06/24/20	06/24/20	06/24/20	
Date Analyzed:	06/24/20	06/24/20	06/24/20	06/24/20	
AA ID No:	0F22011-01	0F22011-02	0F22011-03	0F22011-04	
Client ID No:	Trunkline#1(East)	Trunkline#2(South)	Trunkline#3(Centr al S)	Trunkline#4(Centr al E)	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	10	10	10	10	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	1100	670	7100	2800	5.7
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333623
Date Received: 06/22/20
Date Reported: 07/06/20
Units: ppmv

Date Sampled:	06/22/20	
Date Prepared:	06/24/20	
Date Analyzed:	06/24/20	
AA ID No:	0F22011-05	
Client ID No:	Trunkline#5(Centr al W)	
Matrix:	Vapor	
Dilution Factor:	10	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	1300	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: A5333623
Date Received: 06/22/20
Date Reported: 07/06/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0F2323 - *** DEFAULT PREP ***</i>										
Blank (B0F2323-BLK1)					Prepared & Analyzed: 06/23/20					
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	51.6		ug/L	50		103	70-140			
<i>Surrogate: Dibromofluoromethane</i>	47.7		ug/L	50		95.4	70-140			
<i>Surrogate: Toluene-d8</i>	51.9		ug/L	50		104	70-140			
LCS (B0F2323-BS1)					Prepared: 06/23/20 Analyzed: 06/24/20					
Benzene	19.7	0.50	ug/L	20		98.6	75-125			
Ethylbenzene	21.0	0.50	ug/L	20		105	75-125			
Methyl-tert-Butyl Ether (MTBE)	33.8	2.0	ug/L	40		84.5	75-125			
Toluene	21.8	0.50	ug/L	20		109	75-125			
o-Xylene	20.7	0.50	ug/L	20		104	75-125			
m,p-Xylenes	39.4	1.0	ug/L	40		98.4	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	50.4		ug/L	50		101	70-140			
<i>Surrogate: Dibromofluoromethane</i>	45.4		ug/L	50		90.8	70-140			
<i>Surrogate: Toluene-d8</i>	51.5		ug/L	50		103	70-140			
LCS Dup (B0F2323-BSD1)					Prepared: 06/23/20 Analyzed: 06/24/20					
Benzene	19.5	0.50	ug/L	20		97.7	75-125	0.866	30	
Ethylbenzene	20.9	0.50	ug/L	20		104	75-125	0.526	30	
Methyl-tert-Butyl Ether (MTBE)	34.1	2.0	ug/L	40		85.2	75-125	0.737	30	
Toluene	21.5	0.50	ug/L	20		108	75-125	1.34	30	
o-Xylene	21.0	0.50	ug/L	20		105	75-125	1.25	30	
m,p-Xylenes	39.5	1.0	ug/L	40		98.8	75-125	0.431	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	51.1		ug/L	50		102	70-140			
<i>Surrogate: Dibromofluoromethane</i>	45.6		ug/L	50		91.3	70-140			
<i>Surrogate: Toluene-d8</i>	52.1		ug/L	50		104	70-140			
Duplicate (B0F2323-DUP1)					Source: 0F22010-01 Prepared & Analyzed: 06/23/20					

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5333623
Date Received: 06/22/20
Date Reported: 07/06/20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B0F2323 - *** DEFAULT PREP ***</i>										
Duplicate (B0F2323-DUP1) Continued Source: 0F22010-01 Prepared & Analyzed: 06/23/20										
Benzene	<0.50	0.50	ug/L		0.440			2.25	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	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.1</i>		<i>ug/L</i>	<i>50</i>		<i>100</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>46.4</i>		<i>ug/L</i>	<i>50</i>		<i>92.8</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>51.0</i>		<i>ug/L</i>	<i>50</i>		<i>102</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B0F2417 - *** DEFAULT PREP ***</i>										
Blank (B0F2417-BLK1) Prepared & Analyzed: 06/24/20										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>42.5</i>		<i>ug/L</i>	<i>50</i>		<i>84.9</i>	<i>70-130</i>			
LCS (B0F2417-BS1) Prepared & Analyzed: 06/24/20										
Gasoline Range Organics (GRO)	472	20	ug/L	500		94.4	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>48.8</i>		<i>ug/L</i>	<i>50</i>		<i>97.5</i>	<i>70-130</i>			
LCS Dup (B0F2417-BSD1) Prepared & Analyzed: 06/24/20										
Gasoline Range Organics (GRO)	464	20	ug/L	500		92.9	75-125	1.62	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>49.5</i>		<i>ug/L</i>	<i>50</i>		<i>98.9</i>	<i>70-130</i>			
GRO in Vapor as Hexane - Quality Control										
<i>Batch B0F2417 - *** DEFAULT PREP ***</i>										
Blank (B0F2417-BLK1) Prepared & Analyzed: 06/24/20										
GRO as Hexane	<5.7	5.7	ppmv							

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: A5333623
Date Received: 06/22/20
Date Reported: 07/06/20

Special Notes

A handwritten signature in black ink, appearing to be 'VA'.

Viorel Vasile
Operations Manager



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

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

20742

Page 1 of 1

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

Client I.D.	Date	Time	Sample Matrix	No. of Cont	ANALYSIS REQUESTED (Test Name)			Special Instructions
					Total VOCs Gas 8019	Total VOCs Hexane 8015	BTEX/MTBE 8208	
CF222011-9	6-22-20	1133	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	VOC's reported as TPH and Hexane
-9		1130	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Detection limit of 75 ppm for Hexane and 0.15 ppm for Benzene
-03		1139	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
04		1132	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
07		1135	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<p>Relinquished by <i>Glenn Androsko</i> Date 6-22-20 Time 12:35 Received by</p> <p>Relinquished by <i>[Signature]</i> Date 6-22-20 Time 14:48 Received by</p> <p>Relinquished by <i>[Signature]</i> Date Time Received by</p>								

PRIORITY
 SH-116
 6/22/2020 12:35pm
 6/22/2020 14:48

A9394022/CF22201

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.



ENTHALPY
ANALYTICAL

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 427414
Report Level: II
Report Date: 05/07/2020

Analytical Report *prepared for:*

Imedla Morales
APEX - Signal Hill
1962 Freeman Avenue
Signal Hill, CA 90755

Project: PERMIT #22453_WW - WW

Authorized for release by:

Diane Galvan, Project Manager
714-771-9928
diane.galvan@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Sample Summary

Imedia Morales
APEX - Signal Hill
1962 Freeman Avenue
Signal Hill, CA 90755

Lab Job #: 427414
Project No: PERMIT #22453_WW
Location: WW
Date Received: 04/22/20

Sample ID	Lab ID	Collected	Matrix
SURGE TANK_04-22-20	427414-001	04/22/20 11:15	Water

427414

CHAIN OF CUSTODY RECORD 931 W. Barkley, Orange, CA 92668 Phone: (714) 771-6900 Fax: (714) 771-9933 Billing: Enthalpy Analytical P.O. Box 741137, Los Angeles, CA 90074-1137		ENTHALPY ANALYTICAL www.enthalpy.com		Lab Number: 15881 Client ID: 1 of 1 Page: 1	Preservative: 1=Na2S2O3 2=HCl 3=HNO3 4=H2SO4 5=NaOH 6=Other Matrix: A=Air DW=Drinking Water FL=Food Liquid FS=Food Solid L=Liquid PP=Pure Product S=Solid SW=Swab W=Water WP=Wipe O=Other ****Turn around time will start the following day for samples received at the Lab after 3pm****
CUSTOMER INFORMATION Company: APEX Report To: Imelda Morales Email: imelda.morales@apex.com, client_analyst@apex.com Address: 1962 Freeman Ave Signal Hill, CA 90755 Phone: 562-597-1055 Fax:		PROJECT INFORMATION Name: WW Number: Permit #22455 Address: 15306 Norwalk Blvd Norwalk, CA 90650		Turn Around Time Standard X 72 Hours 48 Hours 24 Hours Same Day	
Analysis		Test Instruction & Comments			
Sample ID	Date	Time	Matrix	Container	Pres.
1 Surge Tank -04-22-20	4-22-20	1115	WW	1-L, 3-40ml	4
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					

5.1 / 17.4



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: APEX SIGNAL HILL Project: _____
 Date Received: 04/22/20 Sampler's Name Present: Yes No

Section 2
 Sample(s) received in a cooler? Yes, How many? 1 No (skip section 2) Sample Temp (°C) (No Cooler) : _____
 Sample Temp (°C), One from each cooler: #1: 17.4 #2: _____ #3: _____ #4: _____
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
 Shipping Information: _____

Section 3
 Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam
 Paper None Other _____
 Cooler Temp (°C): #1: 5.1 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are sample IDs present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are sampling dates & times present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is a relinquished signature present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are the tests required clearly indicated on the COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If custody seals are present, were they intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Did all samples arrive intact? If no, indicate in Section 4 below.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did all bottle labels agree with COC? (ID, dates and times)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were the samples collected in the correct containers for the required tests?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are the containers labeled with the correct preservatives?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is there headspace in the VOA vials greater than 5-6 mm in diameter?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Was a sufficient amount of sample submitted for the requested tests?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Section 5 Explanations/Comments

Section 6
 For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time _____
 Email (email sent to/on): _____ / _____
 Project Manager's response:

Completed By: [Signature] Date: 04/22/20

Analysis Results for 427414

Imedia Morales
 APEX - Signal Hill
 1962 Freeman Avenue
 Signal Hill, CA 90755

Lab Job #: 427414
 Project No: PERMIT #22453_WW
 Location: WW
 Date Received: 04/22/20

Sample ID: SURGE TANK_04-22-20	Lab ID: 427414-001	Collected: 04/22/20 11:15
Matrix: Water		

427414-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015B									
Prep Method: EPA 5030B									
GRO C6-C10	ND		ug/L	50	1	245153	04/27/20	04/27/20	EMW
Surrogates				Limits					
Bromofluorobenzene (FID)	114%		%REC	60-140	1	245153	04/27/20	04/27/20	EMW
Method: EPA 8015B									
Prep Method: EPA 3510C									
DRO C10-C28	ND		mg/L	0.094	0.94	245202	04/28/20	04/28/20	MES
Surrogates				Limits					
n-Triacontane	81%		%REC	50-150	0.94	245202	04/28/20	04/28/20	MES

ND Not Detected

Batch QC

Type: Lab Control Sample	Lab ID: QC866771	Batch: 245153
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC866771 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
TPH Gasoline	501.8	500.0	ug/L	100%		70-130
Surrogates						
Bromofluorobenzene (FID)	236.0	200.0	ug/L	118%		60-140

Type: Matrix Spike	Lab ID: QC866772	Batch: 245153
Matrix (Source ID): Water (427416-002)	Method: EPA 8015B	Prep Method: EPA 5030B

QC866772 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
TPH Gasoline	502.0	ND	500.0	ug/L	100%		70-130	1
Surrogates								
Bromofluorobenzene (FID)	240.0		200.0	ug/L	120%		60-140	1

Type: Matrix Spike Duplicate	Lab ID: QC866773	Batch: 245153
Matrix (Source ID): Water (427416-002)	Method: EPA 8015B	Prep Method: EPA 5030B

QC866773 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
TPH Gasoline	497.4	ND	500.0	ug/L	99%		70-130	1	30	1
Surrogates										
Bromofluorobenzene (FID)	237.0		200.0	ug/L	119%		60-140			1

Type: Blank	Lab ID: QC866774	Batch: 245153
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC866774 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
GRO C6-C10	ND		ug/L	50	04/27/20	04/27/20
Surrogates						
Bromofluorobenzene (FID)	113%		%REC	60-140	04/27/20	04/27/20

Type: Blank	Lab ID: QC866881	Batch: 245202
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC866881 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
DRO C10-C28	ND		mg/L	0.10	04/28/20	04/29/20
Surrogates						
n-Triacontane	100%		%REC	50-150	04/28/20	04/29/20

Batch QC

Type: Lab Control Sample	Lab ID: QC866882	Batch: 245202
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC866882 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	0.8216	1.000	mg/L	82%		53-115
Surrogates						
n-Triacontane	0.01734	0.02000	mg/L	87%		50-150

Type: Lab Control Sample Duplicate	Lab ID: QC866883	Batch: 245202
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC866883 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	Lim
Diesel C10-C28	0.7262	1.000	mg/L	73%		53-115	12	20
Surrogates								
n-Triacontane	0.01565	0.02000	mg/L	78%		50-150		

ND Not Detected



ENTHALPY
ANALYTICAL

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 427415
Report Level: II
Report Date: 05/01/2020

Analytical Report *prepared for:*

Imedia Morales
APEX - Signal Hill
1962 Freeman Avenue
Signal Hill, CA 90755

Project: PERMIT #22453_WW - WW

Authorized for release by:

Diane Galvan, Project Manager
714-771-9928
diane.galvan@enthalpy.com

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Sample Summary

Imedia Morales
APEX - Signal Hill
1962 Freeman Avenue
Signal Hill, CA 90755

Lab Job #: 427415
Project No: PERMIT #22453_WW
Location: WW
Date Received: 04/22/20

Sample ID	Lab ID	Collected	Matrix
EFFLUENT_04-22-20	427415-001	04/22/20 11:02	Water

427415

CHAIN OF CUSTODY RECORD		ENTHALPY ANALYTICAL		Lab Number: 15881
931 W. Barkley, Orange, CA 92868		Client ID: 15881		Page: 1 of 1
Phone: (714) 771-6900 Fax: (714) 771-9933		www.enthalpy.com		
Billing: Enthalpy Analytical c/o Montrose Environmental Group Inc. P.O. Box 741137, Los Angeles, CA 90074-1137		PROJECT INFORMATION		
Name: WW		Turn Around Time		
Number: Permit #22453		Standard <input checked="" type="checkbox"/>		
Address: 15306 Norwalk Blvd		72 Hours		
Norwalk, CA 90650		48 Hours		
Global ID:		24 Hours		
P.O. #:		Same Day		
Sampled By:				
Matrix		2540D TSS		
Container		5220-D COD		
Pres.				
Date				
Time				
Sample ID				
Date				
Time				
pH				
Temp.				
Time				
1) Begin:		1 Relinquished By:		2) Authorized By:
End:		1 Received By: <i>Alena Ondrich</i>		
2) Begin:		Print Name: <i>Alena Ondrich</i>		
End:		Date: <i>4/22/20</i>		
3) Begin:		Time: <i>1612</i>		
End:		Date: <i>4/22/20</i>		
4) Begin:		3 Relinquished By:		
End:		3 Received By: <i>Glenn Anderson</i>		
		Print Name: <i>Glenn Anderson</i>		
		Date: <i>4/22/20</i>		
		Time: <i>1612</i>		

501 / 13.2



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: APEX - SIGNAL HILL Project: _____
 Date Received: 4/22/20 Sampler's Name Present: Yes No

Section 2
 Sample(s) received in a cooler? Yes, How many? 1 No (skip section 2) Sample Temp (°C) (No Cooler): _____
 Sample Temp (°C), One from each cooler: #1: 13.2 #2: _____ #3: _____ #4: _____
(Acceptance range is <6°C but not frozen (for Microbiology samples, acceptance range is <10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
 Shipping Information: _____

Section 3
 Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam
 Paper None Other _____
 Cooler Temp (°C): #1: 5.1 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	/		
Are sample IDs present?	/		
Are sampling dates & times present?	/		
Is a relinquished signature present?	/		
Are the tests required clearly indicated on the COC?	/		
Are custody seals present?		/	
If custody seals are present, were they intact?			/
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			/
Did all samples arrive intact? If no, indicate in Section 4 below.	/		
Did all bottle labels agree with COC? (ID, dates and times)	/		
Were the samples collected in the correct containers for the required tests?	/		
Are the containers labeled with the correct preservatives?	/		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			/
Was a sufficient amount of sample submitted for the requested tests?	/		

Section 5 Explanations/Comments

Section 6
 For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time _____
 Email (email sent to/on): _____ / _____
 Project Manager's response:

Completed By: [Signature] Date: 4/22/20

Analysis Results for 427415

Imedia Morales
 APEX - Signal Hill
 1962 Freeman Avenue
 Signal Hill, CA 90755

Lab Job #: 427415
 Project No: PERMIT #22453_WW
 Location: WW
 Date Received: 04/22/20

Sample ID: EFFLUENT_04-22-20	Lab ID: 427415-001	Collected: 04/22/20 11:02
Matrix: Water		

427415-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM2540D Prep Method: METHOD									
Total Suspended Solids	ND		mg/L	0.6	1.1	245042	04/23/20	04/24/20	NLP
Method: SM5220D Prep Method: METHOD									
Chemical Oxygen Demand	ND		mg/L	4.0	1	245000	04/23/20	04/23/20	ECC

ND Not Detected

Batch QC

Type: Blank	Lab ID: QC866500	Batch: 245042
Matrix: Water	Method: SM2540D	Prep Method: METHOD

QC866500 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Total Suspended Solids	ND		mg/L	0.5	04/23/20	04/24/20

Type: Sample Duplicate	Lab ID: QC866501	Batch: 245042
Matrix (Source ID): Water (427267-004)	Method: SM2540D	Prep Method: METHOD

QC866501 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Suspended Solids	870.0	894.0	mg/L		3	5	20

Type: Blank	Lab ID: QC866384	Batch: 245000
Matrix: Water	Method: SM5220D	Prep Method: METHOD

QC866384 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Chemical Oxygen Demand	ND		mg/L	4.0	04/23/20	04/23/20

Type: Lab Control Sample	Lab ID: QC866385	Batch: 245000
Matrix: Water	Method: SM5220D	Prep Method: METHOD

QC866385 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chemical Oxygen Demand	105.0	100.0	mg/L	105%		80-120

Type: Matrix Spike	Lab ID: QC866386	Batch: 245000
Matrix (Source ID): Water (427066-001)	Method: SM5220D	Prep Method: METHOD

QC866386 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Chemical Oxygen Demand	102.0	ND	100.0	mg/L	102%		75-125	1

Type: Matrix Spike Duplicate	Lab ID: QC866387	Batch: 245000
Matrix (Source ID): Water (427066-001)	Method: SM5220D	Prep Method: METHOD

QC866387 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Chemical Oxygen Demand	104.0	ND	100.0	mg/L	104%		75-125	2	20	1

ND Not Detected



ENTHALPY
ANALYTICAL

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 428756
Report Level: II
Report Date: 06/10/2020

Analytical Report *prepared for:*

Imelda Morales
APEX - Signal Hill
1962 Freeman Avenue
Signal Hill, CA 90755

Project: PERMIT #22453_WW - WW

Authorized for release by:

Diane Galvan, Project Manager
714-771-9928
diane.galvan@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Sample Summary

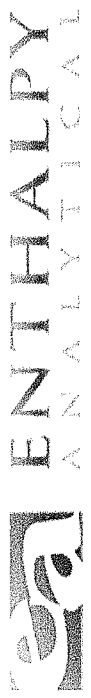
Imelda Morales
APEX - Signal Hill
1962 Freeman Avenue
Signal Hill, CA 90755

Lab Job #: 428756
Project No: PERMIT #22453_WW
Location: WW
Date Received: 05/27/20

Sample ID	Lab ID	Collected	Matrix
SURGE TANK_05-27-20	428756-001	05/27/20 09:34	Water

420750

CHAIN OF CUSTODY RECORD		ENTHALPY ANALYTICAL		Lab Number: 15881
931 W. Barkley, Orange, CA 92868		Client ID: 15881		Page: 1 of 1
Phone: (714) 771-6900 Fax: (714) 771-9933		www.enthalpy.com		
Billing: Enthalpy Analytical c/o Montrose Environmental Group Inc. P.O. Box 741137, Los Angeles, CA 90074-1137		Turn Around Time Standard X 72 Hours 48 Hours 24 Hours Same Day		
CUSTOMER INFORMATION		PROJECT INFORMATION		
Company: APEX	Name: WW	Global ID:	Matrix:	Container:
Report To: Imelda Morales imelda.morales@apexcos.com	Number: Permit #22453	P.O. #:	Matrix:	Container:
Email: kay.lyan@apexcos.com	Address: 15306 Norwalk Blvd	Sampled By:	Matrix:	Container:
Address: 1962 Freeman Ave	Address: Norwalk, CA 90650		Matrix:	Container:
Phone: 562-597-1055	Address: Signal Hill, CA 90755		Matrix:	Container:
Fax:			Matrix:	Container:
Sample ID	Date	Time	Matrix	Container
1 Surge Tank_05-27-20	5-27-20	0934	WW	1-L, 3-40ml
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
Meter Readings		pH	Temp.	Time
1) Begin:				
End:				
2) Begin:				
End:				
3) Begin:				
End:				
4) Begin:				
End:				
		1 Received By:	1 Relinquished By:	2 Authorized By:
		<i>Glenn Anderson</i>	<i>Elizabeth Ramirez</i>	
		Print Name:	Print Name:	
		Glenn Anderson	Elizabeth Ramirez	
		Date:	Date:	
		5/27/20 16:15	5/27/20 16:15	
		3 Received By:	3 Relinquished By:	4
		Print Name:	Print Name:	
		Date:	Date:	



Test Instruction & Comments

14.0 / 3.9



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Apex

Project: WW Surge Tank

Date Received: 05/27/2020

Sampler's Name Present: Yes No

Section 2

Sample(s) received in a cooler? Yes, How many? 1 No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 14.0 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam
 Paper None Other _____

Cooler Temp (°C): #1: 3.9 #2: _____ #3: _____ #4: _____

Section 4

	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?	✓		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?		✓	
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time: _____
 Email (email sent to/on): _____ / _____

Project Manager's response: _____

Completed By: [Signature] Date: 05/27/20

Enthalpy Analytical, a subsidiary of Montrose Environmental Group, Inc.
931 W. Barkley Ave, Orange, CA 92868 • T: (714) 771-6900 • F: (714) 538-1209

www.enthalpy.com/socal

Sample Acceptance Checklist - Rev 4, 8/8/2017



Diane Galvan <diane.galvan@enthalpy.com>

RE: [EXT] Re: FW: DFSP Norwalk - GW samples

1 message

Imelda Morales <Imelda.Morales@apexcos.com>
To: Diane Galvan <diane.galvan@enthalpy.com>

Thu, May 28, 2020 at 12:08 PM

Diane,

I added the additional analysis we require for both COC (Surge Tank and Effluent).

Surge Tank:

Please advise if sufficient sample was collected to run this additional analysis.

Effluent:

Glenn collected additional containers of sample in case Enthalpy required this for the additional analysis requested.

Thank you,

**Imelda Morales**

Senior Remediation Engineer

Apex Companies, LLC

1962 Freeman Ave

Signal Hill, CA 90755

O) 562-597-1055 x1804 M) 562-370-5471

Add me to your contact list!



ENR Top 30 All-Environmental Firm



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CHAIN OF CUSTODY RECORD
 931 W. Barkley, Orange, CA 92868
 Phone: (714) 771-6900 Fax: (714) 771-9933
 Billing: Enthalpy Analytical
 c/o Montrose Environmental Group, Inc.
 P.O. Box 741137, Los Angeles, CA 90074-1137
 www.enthalpy.com

ENTHALPY ANALYTICAL
 Lab Number: 15881
 Client ID: 1 of 1
 Page: 1 of 1

CUSTOMER INFORMATION
 Company: **APEX**
 Report To: Ineida Morales
 Email: imorales@apexcos.com, imorales@apexcos.com
 Address: 1962 Freeman Ave
 Signal Hill, CA 90755
 Phone: 562-597-1055 Fax:

PROJECT INFORMATION
 Name: WW
 Number: Permit #22453
 Address: 15306 Norwalk Blvd
 Norwalk, CA 90650

Sample ID	Date	Time	Matrix	Container	Pres.	Analysis		Test Instruction & Comments
						8015 TPHG (GRO)	8015 TPHD (DRO)	
1	Surge Tank_05-27-20	5-27-20	WW	1-L, 3-40ml	4.2	X	X	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								

Meter Readings

	pH	Temp.	Time
1) Begin:			
End:			
2) Begin:			
End:			
3) Begin:			
End:			
4) Begin:			
End:			

Relinquished By: *Glenn Androsko* 5-27-20 16:15
 Received By: *Elizabet Ramirez* 5/27/20 16:15
 Relinquished By: *Glenn Androsko* 5-27-20 16:15
 Received By: *Elizabet Ramirez* 5/27/20 16:15

14.0 / 3.9

Analysis Results for 428756

Imelda Morales
 APEX - Signal Hill
 1962 Freeman Avenue
 Signal Hill, CA 90755

Lab Job #: 428756
 Project No: PERMIT #22453_WW
 Location: WW
 Date Received: 05/27/20

Sample ID: SURGE TANK_05-27-20	Lab ID: 428756-001	Collected: 05/27/20 09:34
Matrix: Water		

428756-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 624									
Prep Method: EPA 624									
MTBE	5.4		ug/L	5.0	1	246774	05/30/20	05/30/20	LYZ
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	246774	05/30/20	05/30/20	LYZ
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	246774	05/30/20	05/30/20	LYZ
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	246774	05/30/20	05/30/20	LYZ
tert-Butyl Alcohol (TBA)	ND		ug/L	10	1	246774	05/30/20	05/30/20	LYZ
m,p-Xylenes	ND		ug/L	10	1	246774	05/30/20	05/30/20	LYZ
o-Xylene	ND		ug/L	5.0	1	246774	05/30/20	05/30/20	LYZ
Benzene	46		ug/L	5.0	1	246774	05/30/20	05/30/20	LYZ
Toluene	ND		ug/L	5.0	1	246774	05/30/20	05/30/20	LYZ
Ethylbenzene	ND		ug/L	5.0	1	246774	05/30/20	05/30/20	LYZ
Xylene (total)	ND		ug/L	15	1	246774	05/30/20	05/30/20	LYZ
Surrogates			Limits						
Dibromofluoromethane	96%		%REC	70-140	1	246774	05/30/20	05/30/20	LYZ
1,2-Dichloroethane-d4	101%		%REC	70-140	1	246774	05/30/20	05/30/20	LYZ
Toluene-d8	97%		%REC	70-140	1	246774	05/30/20	05/30/20	LYZ
Bromofluorobenzene	94%		%REC	70-140	1	246774	05/30/20	05/30/20	LYZ
Method: EPA 8015B									
Prep Method: EPA 5030B									
TPH Gasoline	490		ug/L	50	1	246830	06/02/20	06/02/20	EMW
Surrogates			Limits						
Bromofluorobenzene (FID)	110%		%REC	60-140	1	246830	06/02/20	06/02/20	EMW
Method: EPA 8015B									
Prep Method: EPA 3510C									
Diesel C10-C28	0.61		mg/L	0.48	4.8	246968	06/03/20	06/04/20	MES
Surrogates			Limits						
n-Triacontane	76%		%REC	50-150	4.8	246968	06/03/20	06/04/20	MES

ND Not Detected

Batch QC

Type: Blank	Lab ID: QC870635	Batch: 246774
Matrix: Water	Method: EPA 624	Prep Method: EPA 624

QC870635 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	05/30/20	05/30/20
Isopropyl Ether (DIPE)	ND		ug/L	5.0	05/30/20	05/30/20
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	05/30/20	05/30/20
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	05/30/20	05/30/20
tert-Butyl Alcohol (TBA)	ND		ug/L	10	05/30/20	05/30/20
m,p-Xylenes	ND		ug/L	10	05/30/20	05/30/20
o-Xylene	ND		ug/L	5.0	05/30/20	05/30/20
Benzene	ND		ug/L	5.0	05/30/20	05/30/20
Toluene	ND		ug/L	5.0	05/30/20	05/30/20
Chlorobenzene	ND		ug/L	5.0	05/30/20	05/30/20
Ethylbenzene	ND		ug/L	5.0	05/30/20	05/30/20
Xylene (total)	ND		ug/L	15	05/30/20	05/30/20
Surrogates				Limits		
Dibromofluoromethane	95%		%REC	70-140	05/30/20	05/30/20
1,2-Dichloroethane-d4	101%		%REC	70-140	05/30/20	05/30/20
Toluene-d8	97%		%REC	70-140	05/30/20	05/30/20
Bromofluorobenzene	93%		%REC	70-140	05/30/20	05/30/20

Type: Lab Control Sample	Lab ID: QC870636	Batch: 246774
Matrix: Water	Method: EPA 624	Prep Method: EPA 624

QC870636 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	49.64	50.00	ug/L	99%		73-120
1,1-Dichloroethene	47.55	50.00	ug/L	95%		80-135
Benzene	47.66	50.00	ug/L	95%		80-120
Trichloroethene	43.61	50.00	ug/L	87%		79-120
Toluene	46.34	50.00	ug/L	93%		80-120
Chlorobenzene	46.30	50.00	ug/L	93%		80-120
Surrogates						
Dibromofluoromethane	48.45	50.00	ug/L	97%		70-140
1,2-Dichloroethane-d4	49.93	50.00	ug/L	100%		70-140
Toluene-d8	48.76	50.00	ug/L	98%		70-140
Bromofluorobenzene	47.05	50.00	ug/L	94%		70-140

Batch QC

Type: Matrix Spike	Lab ID: QC870637	Batch: 246774
Matrix (Source ID): Water (428762-006)	Method: EPA 624	Prep Method: EPA 624

QC870637 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
MTBE	50.32	ND	50.00	ug/L	101%		75-120	1
1,1-Dichloroethene	48.76	0.8505	50.00	ug/L	96%		80-126	1
Benzene	47.69	ND	50.00	ug/L	95%		80-120	1
Trichloroethene	61.38	20.96	50.00	ug/L	81%		63-126	1
Toluene	46.65	ND	50.00	ug/L	93%		80-120	1
Chlorobenzene	45.05	ND	50.00	ug/L	90%		79-120	1
Surrogates								
Dibromofluoromethane	48.06		50.00	ug/L	96%		70-140	1
1,2-Dichloroethane-d4	50.07		50.00	ug/L	100%		70-140	1
Toluene-d8	48.64		50.00	ug/L	97%		70-140	1
Bromofluorobenzene	46.73		50.00	ug/L	93%		70-140	1

Type: Matrix Spike Duplicate	Lab ID: QC870638	Batch: 246774
Matrix (Source ID): Water (428762-006)	Method: EPA 624	Prep Method: EPA 624

QC870638 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	Lim	DF
MTBE	50.27	ND	50.00	ug/L	101%		75-120	0	20	1
1,1-Dichloroethene	47.79	0.8505	50.00	ug/L	94%		80-126	2	20	1
Benzene	46.71	ND	50.00	ug/L	93%		80-120	2	20	1
Trichloroethene	60.18	20.96	50.00	ug/L	78%		63-126	2	20	1
Toluene	45.44	ND	50.00	ug/L	91%		80-120	3	20	1
Chlorobenzene	44.23	ND	50.00	ug/L	88%		79-120	2	20	1
Surrogates										
Dibromofluoromethane	49.38		50.00	ug/L	99%		70-140			1
1,2-Dichloroethane-d4	51.03		50.00	ug/L	102%		70-140			1
Toluene-d8	48.79		50.00	ug/L	98%		70-140			1
Bromofluorobenzene	47.77		50.00	ug/L	96%		70-140			1

Type: Lab Control Sample	Lab ID: QC870796	Batch: 246830
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC870796 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
TPH Gasoline	514.9	500.0	ug/L	103%		70-130
Surrogates						
Bromofluorobenzene (FID)	225.0	200.0	ug/L	113%		60-140

Batch QC

Type: Matrix Spike	Lab ID: QC870797	Batch: 246830
Matrix (Source ID): Water (428715-001)	Method: EPA 8015B	Prep Method: EPA 5030B

QC870797 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
TPH Gasoline	519.3	ND	500.0	ug/L	103%		70-130	1
Surrogates								
Bromofluorobenzene (FID)	235.0		200.0	ug/L	118%		60-140	1

Type: Matrix Spike Duplicate	Lab ID: QC870798	Batch: 246830
Matrix (Source ID): Water (428715-001)	Method: EPA 8015B	Prep Method: EPA 5030B

QC870798 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
TPH Gasoline	528.9	ND	500.0	ug/L	105%		70-130	2	30	1
Surrogates										
Bromofluorobenzene (FID)	231.0		200.0	ug/L	116%		60-140			1

Type: Blank	Lab ID: QC870799	Batch: 246830
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC870799 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
TPH Gasoline	ND		ug/L	50	06/02/20	06/02/20
Surrogates						
				Limits		
Bromofluorobenzene (FID)	110%		%REC	60-140	06/02/20	06/02/20

Type: Blank	Lab ID: QC871152	Batch: 246968
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC871152 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Diesel C10-C28	ND		mg/L	0.10	06/03/20	06/03/20
Surrogates						
				Limits		
n-Triacontane	59%		%REC	50-150	06/03/20	06/03/20

Type: Lab Control Sample	Lab ID: QC871153	Batch: 246968
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC871153 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	0.3460	1.000	mg/L	35%	*	53-115
Surrogates						
n-Triacontane	0.008540	0.02000	mg/L	43%	*	50-150

Batch QC

Type: Lab Control Sample Duplicate	Lab ID: QC871154	Batch: 246968
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC871154 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Diesel C10-C28	0.3549	1.000	mg/L	35%	*	53-115	3	20
Surrogates								
n-Triacontane	0.008428	0.02000	mg/L	42%	*	50-150		

* Value is outside QC limits

ND Not Detected



ENTHALPY
ANALYTICAL

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 428755
Report Level: II
Report Date: 06/10/2020

Analytical Report *prepared for:*

Imelda Morales
APEX - Signal Hill
1962 Freeman Avenue
Signal Hill, CA 90755

Project: PERMIT #22453_WW - WW

Authorized for release by:

Diane Galvan, Project Manager
714-771-9928
diane.galvan@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Sample Summary

Imelda Morales
APEX - Signal Hill
1962 Freeman Avenue
Signal Hill, CA 90755

Lab Job #: 428755
Project No: PERMIT #22453_WW
Location: WW
Date Received: 05/27/20

Sample ID	Lab ID	Collected	Matrix
EFFLUENT_05-27-20	428755-001	05/27/20 09:20	Water

428755

CHAIN OF CUSTODY RECORD		ENTHALPY ANALYTICAL		Lab Number: 15881
931 W. Barkley, Orange, CA 92868		Client ID:		1 of 1
Phone: (714) 771-6900 Fax: (714) 771-9933		Page:		
Billing: Enthalpy Analytical c/o Montrose Environmental Group Inc. P.O. Box 741137, Los Angeles, CA 90074-1137		www.enthalpy.com		
CUSTOMER INFORMATION		PROJECT INFORMATION		
Company: APEX	Name: WW	WW	Standard	X
Report To: Imelda Morales	Number: Permit #22453	2540D TSS	72 Hours	
Email: katlynn@apexcos.com	Address: 15306 Norwalk Blvd	2520-D COD	48 Hours	
Address: 1962 Freeman Ave	Address: Norwalk, CA 90650	Hold	24 Hours	
Signal Hill, CA 90755	Global ID:		Same Day	
Phone: 562-597-1055	P.O. #:			
Fax:	Sampled By:			
Sample ID	Date	Time	Matrix	Container
1 Effluent 05-27-20	5-27-20	0920	WW	1-L, 200 ml
2 Effluent 05-27-20	"	0920	WW	3-40ml
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
Meter Readings		pH	Temp.	Time
1) Begin:				
End:				
2) Begin:				
End:				
3) Begin:				
End:				
4) Begin:				
End:				
		1 Relinquished By:	2 Received By:	2 Authorized By:
		<i>Glenn Androski</i>		
		Print Name:	Print Name:	
		<i>Glenn Androski</i>	<i>Elizabeth Ramirez</i>	
		Date:	Date:	
		5-27-20 16:15	5/27/20 16:15	
		3 Relinquished By:	4 Relinquished By:	
		Print Name:	Print Name:	
		Date:	Date:	
		Time:	Time:	



Test Instruction & Comments

Preservative: 1=Na2S2O3 2=HCl 3=HNO3 4=H2SO4 5=NaOH 6=Other
 Matrix: A=Air DW=Drinking Water FL=Food Liquid FS=Food Solid
 L=Liquid PP=Pure Product S=Solid SW=Swab W=Water WP=Wipe O=Other

****Turn around time will start the following day
 for samples received at the Lab after 3pm****



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: Apex Project: WW
 Date Received: 05/27/2020 Sampler's Name Present: Yes No

Section 2
 Sample(s) received in a cooler? Yes, How many? 1 No (skip section 2) Sample Temp (°C) (No Cooler) : _____
 Sample Temp (°C), One from each cooler: #1: 14.0 #2: _____ #3: _____ #4: _____
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
 Shipping Information: _____

Section 3
 Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam
 Paper None Other _____
 Cooler Temp (°C): #1: 3.9 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?	✓		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?		✓	
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6
 For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time _____
 Email (email sent to/on): _____ / _____
 Project Manager's response:

Completed By: Date: 05/27/20



Diane Galvan <diane.galvan@enthalpy.com>

RE: [EXT] Re: FW: DFSP Norwalk - GW samples

1 message

Imelda Morales <Imelda.Morales@apexcos.com>
To: Diane Galvan <diane.galvan@enthalpy.com>

Thu, May 28, 2020 at 12:08 PM

Diane,

I added the additional analysis we require for both COC (Surge Tank and Effluent).

Surge Tank:

Please advise if sufficient sample was collected to run this additional analysis.

Effluent:

Glenn collected additional containers of sample in case Enthalpy required this for the additional analysis requested.

Thank you,

**Imelda Morales**

Senior Remediation Engineer

Apex Companies, LLC

1962 Freeman Ave

Signal Hill, CA 90755

O) 562-597-1055 x1804 M) 562-370-5471

Add me to your contact list!



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Analysis Results for 428755

Imedia Morales
 APEX - Signal Hill
 1962 Freeman Avenue
 Signal Hill, CA 90755

Lab Job #: 428755
 Project No: PERMIT #22453_WW
 Location: WW
 Date Received: 05/27/20

Sample ID: EFFLUENT_05-27-20	Lab ID: 428755-001	Collected: 05/27/20 09:20
Matrix: Water		

428755-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 624									
Prep Method: EPA 624									
MTBE	ND		ug/L	5.0	1	246774	05/30/20	05/30/20	LYZ
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	246774	05/30/20	05/30/20	LYZ
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	246774	05/30/20	05/30/20	LYZ
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	246774	05/30/20	05/30/20	LYZ
tert-Butyl Alcohol (TBA)	13		ug/L	10	1	246774	05/30/20	05/30/20	LYZ
m,p-Xylenes	ND		ug/L	10	1	246774	05/30/20	05/30/20	LYZ
o-Xylene	ND		ug/L	5.0	1	246774	05/30/20	05/30/20	LYZ
Benzene	ND		ug/L	5.0	1	246774	05/30/20	05/30/20	LYZ
Toluene	ND		ug/L	5.0	1	246774	05/30/20	05/30/20	LYZ
Ethylbenzene	ND		ug/L	5.0	1	246774	05/30/20	05/30/20	LYZ
Xylene (total)	ND		ug/L	15	1	246774	05/30/20	05/30/20	LYZ
Surrogates				Limits					
Dibromofluoromethane	97%		%REC	70-140	1	246774	05/30/20	05/30/20	LYZ
1,2-Dichloroethane-d4	103%		%REC	70-140	1	246774	05/30/20	05/30/20	LYZ
Toluene-d8	97%		%REC	70-140	1	246774	05/30/20	05/30/20	LYZ
Bromofluorobenzene	94%		%REC	70-140	1	246774	05/30/20	05/30/20	LYZ
Method: SM2540D									
Prep Method: METHOD									
Total Suspended Solids	ND		mg/L	0.6	1.1	246858	05/29/20	05/29/20	NLP
Method: SM5220D									
Prep Method: METHOD									
Chemical Oxygen Demand	ND		mg/L	4.0	1	246662	05/28/20	05/28/20	ATP

ND Not Detected

Batch QC

Type: Blank	Lab ID: QC870372	Batch: 246662
Matrix: Water	Method: SM5220D	Prep Method: METHOD

QC870372 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Chemical Oxygen Demand	ND		mg/L	4.0	05/28/20	05/28/20

Type: Lab Control Sample	Lab ID: QC870373	Batch: 246662
Matrix: Water	Method: SM5220D	Prep Method: METHOD

QC870373 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chemical Oxygen Demand	106.0	100.0	mg/L	106%		80-120

Type: Matrix Spike	Lab ID: QC870374	Batch: 246662
Matrix (Source ID): Water (428750-001)	Method: SM5220D	Prep Method: METHOD

QC870374 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Chemical Oxygen Demand	112.0	ND	100.0	mg/L	112%		75-125	2

Type: Matrix Spike Duplicate	Lab ID: QC870375	Batch: 246662
Matrix (Source ID): Water (428750-001)	Method: SM5220D	Prep Method: METHOD

QC870375 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	Lim	DF
Chemical Oxygen Demand	110.0	ND	100.0	mg/L	110%		75-125	2	20	2

Batch QC

Type: Blank	Lab ID: QC870635	Batch: 246774
Matrix: Water	Method: EPA 624	Prep Method: EPA 624

QC870635 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	05/30/20	05/30/20
Isopropyl Ether (DIPE)	ND		ug/L	5.0	05/30/20	05/30/20
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	05/30/20	05/30/20
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	05/30/20	05/30/20
tert-Butyl Alcohol (TBA)	ND		ug/L	10	05/30/20	05/30/20
m,p-Xylenes	ND		ug/L	10	05/30/20	05/30/20
o-Xylene	ND		ug/L	5.0	05/30/20	05/30/20
Benzene	ND		ug/L	5.0	05/30/20	05/30/20
Toluene	ND		ug/L	5.0	05/30/20	05/30/20
Ethylbenzene	ND		ug/L	5.0	05/30/20	05/30/20
Xylene (total)	ND		ug/L	15	05/30/20	05/30/20
Surrogates	Limits					
Dibromofluoromethane	95%		%REC	70-140	05/30/20	05/30/20
1,2-Dichloroethane-d4	101%		%REC	70-140	05/30/20	05/30/20
Toluene-d8	97%		%REC	70-140	05/30/20	05/30/20
Bromofluorobenzene	93%		%REC	70-140	05/30/20	05/30/20

Type: Lab Control Sample	Lab ID: QC870636	Batch: 246774
Matrix: Water	Method: EPA 624	Prep Method: EPA 624

QC870636 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	49.64	50.00	ug/L	99%		73-120
1,1-Dichloroethene	47.55	50.00	ug/L	95%		80-135
Benzene	47.66	50.00	ug/L	95%		80-120
Trichloroethene	43.61	50.00	ug/L	87%		79-120
Toluene	46.34	50.00	ug/L	93%		80-120
Chlorobenzene	46.30	50.00	ug/L	93%		80-120
Surrogates						
Dibromofluoromethane	48.45	50.00	ug/L	97%		70-140
1,2-Dichloroethane-d4	49.93	50.00	ug/L	100%		70-140
Toluene-d8	48.76	50.00	ug/L	98%		70-140
Bromofluorobenzene	47.05	50.00	ug/L	94%		70-140

Batch QC

Type: Matrix Spike	Lab ID: QC870637	Batch: 246774
Matrix (Source ID): Water (428762-006)	Method: EPA 624	Prep Method: EPA 624

QC870637 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
MTBE	50.32	ND	50.00	ug/L	101%		75-120	1
1,1-Dichloroethene	48.76	0.8505	50.00	ug/L	96%		80-126	1
Benzene	47.69	ND	50.00	ug/L	95%		80-120	1
Trichloroethene	61.38	20.96	50.00	ug/L	81%		63-126	1
Toluene	46.65	ND	50.00	ug/L	93%		80-120	1
Chlorobenzene	45.05	ND	50.00	ug/L	90%		79-120	1
Surrogates								
Dibromofluoromethane	48.06		50.00	ug/L	96%		70-140	1
1,2-Dichloroethane-d4	50.07		50.00	ug/L	100%		70-140	1
Toluene-d8	48.64		50.00	ug/L	97%		70-140	1
Bromofluorobenzene	46.73		50.00	ug/L	93%		70-140	1

Type: Matrix Spike Duplicate	Lab ID: QC870638	Batch: 246774
Matrix (Source ID): Water (428762-006)	Method: EPA 624	Prep Method: EPA 624

QC870638 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	Lim	DF
MTBE	50.27	ND	50.00	ug/L	101%		75-120	0	20	1
1,1-Dichloroethene	47.79	0.8505	50.00	ug/L	94%		80-126	2	20	1
Benzene	46.71	ND	50.00	ug/L	93%		80-120	2	20	1
Trichloroethene	60.18	20.96	50.00	ug/L	78%		63-126	2	20	1
Toluene	45.44	ND	50.00	ug/L	91%		80-120	3	20	1
Chlorobenzene	44.23	ND	50.00	ug/L	88%		79-120	2	20	1
Surrogates										
Dibromofluoromethane	49.38		50.00	ug/L	99%		70-140			1
1,2-Dichloroethane-d4	51.03		50.00	ug/L	102%		70-140			1
Toluene-d8	48.79		50.00	ug/L	98%		70-140			1
Bromofluorobenzene	47.77		50.00	ug/L	96%		70-140			1

Type: Blank	Lab ID: QC870879	Batch: 246858
Matrix: Water	Method: SM2540D	Prep Method: METHOD

QC870879 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Total Suspended Solids	ND		mg/L	0.5	05/29/20	05/29/20

Batch QC

Type: Sample Duplicate	Lab ID: QC870880	Batch: 246858
Matrix (Source ID): Water (428614-004)	Method: SM2540D	Prep Method: METHOD

QC870880 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Suspended Solids	618.0	646.0	mg/L		4	5	20

ND Not Detected



ENTHALPY
ANALYTICAL

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 430012
Report Level: II
Report Date: 07/09/2020

Analytical Report *prepared for:*

Imelda Morales
APEX - Signal Hill
1962 Freeman Avenue
Signal Hill, CA 90755

Location: DFSP-Norwalk, 091-NOLA-026

Authorized for release by:

Diane Galvan, Project Manager
714-771-9928
diane.galvan@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038

Sample Summary

Imelda Morales	Lab Job #:	430012
APEX - Signal Hill	Location:	DFSP-Norwalk, 091-NOLA-026
1962 Freeman Avenue	Date Received:	06/24/20
Signal Hill, CA 90755		

Sample ID	Lab ID	Collected	Matrix
SURGE TANK_06-24-20	430012-001	06/24/20 13:10	Water



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Apex

Project: _____

Date Received: 6/24/20

Sampler's Name Present: Yes No

Section 2

Sample(s) received in a cooler? Yes, How many? 1 No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 15.4 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam
 Paper None Other _____

Cooler Temp (°C): #1: 3.6 #2: _____ #3: _____ #4: _____

Section 4

	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?	✓		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?		✓	
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time _____
 Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____

Date: 6/24/20

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Sample Acceptance Checklist - Rev 4, 8/8/2017

Analysis Results for 430012

Imelda Morales
 APEX - Signal Hill
 1962 Freeman Avenue
 Signal Hill, CA 90755

Lab Job #: 430012
 Location: DFSP-Norwalk, 091-NOLA-026
 Date Received: 06/24/20

Sample ID: SURGE TANK_06-24-20	Lab ID: 430012-001	Collected: 06/24/20 13:10
Matrix: Water		

430012-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 624									
Prep Method: EPA 624									
MTBE	6.4		ug/L	5.0	1	248323	06/27/20	06/27/20	LYZ
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	248323	06/27/20	06/27/20	LYZ
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	248323	06/27/20	06/27/20	LYZ
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	248323	06/27/20	06/27/20	LYZ
tert-Butyl Alcohol (TBA)	12		ug/L	10	1	248323	06/27/20	06/27/20	LYZ
m,p-Xylenes	ND		ug/L	10	1	248323	06/27/20	06/27/20	LYZ
o-Xylene	ND		ug/L	5.0	1	248323	06/27/20	06/27/20	LYZ
Benzene	79		ug/L	5.0	1	248323	06/27/20	06/27/20	LYZ
Toluene	ND		ug/L	5.0	1	248323	06/27/20	06/27/20	LYZ
Ethylbenzene	ND		ug/L	5.0	1	248323	06/27/20	06/27/20	LYZ
Xylene (total)	ND		ug/L	5.0	1	248323	06/27/20	06/27/20	LYZ
Surrogates				Limits					
Dibromofluoromethane	99%		%REC	70-140	1	248323	06/27/20	06/27/20	LYZ
1,2-Dichloroethane-d4	114%		%REC	70-140	1	248323	06/27/20	06/27/20	LYZ
Toluene-d8	98%		%REC	70-140	1	248323	06/27/20	06/27/20	LYZ
Bromofluorobenzene	97%		%REC	70-140	1	248323	06/27/20	06/27/20	LYZ
Method: EPA 8015B									
Prep Method: EPA 5030B									
TPH Gasoline	640		ug/L	50	1	248408	06/29/20	06/30/20	EMW
Surrogates				Limits					
Bromofluorobenzene (FID)	111%		%REC	60-140	1	248408	06/29/20	06/30/20	EMW
Method: EPA 8015B									
Prep Method: EPA 3510C									
Diesel C10-C28	0.85		mg/L	0.094	0.94	248369	06/27/20	07/02/20	MES
Surrogates				Limits					
n-Triacontane	99%		%REC	50-150	0.94	248369	06/27/20	07/02/20	MES

ND Not Detected

Batch QC

Type: Blank	Lab ID: QC874447	Batch: 248323
Matrix: Water	Method: EPA 624	Prep Method: EPA 624

QC874447 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	06/26/20	06/26/20
Isopropyl Ether (DIPE)	ND		ug/L	5.0	06/26/20	06/26/20
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	06/26/20	06/26/20
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	06/26/20	06/26/20
tert-Butyl Alcohol (TBA)	ND		ug/L	10	06/26/20	06/26/20
m,p-Xylenes	ND		ug/L	10	06/26/20	06/26/20
o-Xylene	ND		ug/L	5.0	06/26/20	06/26/20
Benzene	ND		ug/L	5.0	06/26/20	06/26/20
Toluene	ND		ug/L	5.0	06/26/20	06/26/20
Ethylbenzene	ND		ug/L	5.0	06/26/20	06/26/20
Xylene (total)	ND		ug/L	5.0	06/26/20	06/26/20
Surrogates				Limits		
Dibromofluoromethane	100%		%REC	70-140	06/26/20	06/26/20
1,2-Dichloroethane-d4	115%		%REC	70-140	06/26/20	06/26/20
Toluene-d8	97%		%REC	70-140	06/26/20	06/26/20
Bromofluorobenzene	97%		%REC	70-140	06/26/20	06/26/20

Type: Lab Control Sample	Lab ID: QC874448	Batch: 248323
Matrix: Water	Method: EPA 624	Prep Method: EPA 624

QC874448 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	47.82	50.00	ug/L	96%		73-120
1,1-Dichloroethene	49.82	50.00	ug/L	100%		80-135
Benzene	46.68	50.00	ug/L	93%		80-120
Trichloroethene	45.34	50.00	ug/L	91%		79-120
Toluene	45.01	50.00	ug/L	90%		80-120
Chlorobenzene	45.44	50.00	ug/L	91%		80-120
Surrogates						
Dibromofluoromethane	51.28	50.00	ug/L	103%		70-140
1,2-Dichloroethane-d4	56.33	50.00	ug/L	113%		70-140
Toluene-d8	48.61	50.00	ug/L	97%		70-140
Bromofluorobenzene	49.83	50.00	ug/L	100%		70-140

Batch QC

Type: Matrix Spike	Lab ID: QC874449	Batch: 248323
Matrix (Source ID): Water (429754-002)	Method: EPA 624	Prep Method: EPA 624

QC874449 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
MTBE	50.38	ND	50.00	ug/L	101%		75-120	1
1,1-Dichloroethene	48.34	ND	50.00	ug/L	97%		80-126	1
Benzene	45.21	ND	50.00	ug/L	90%		80-120	1
Trichloroethene	43.33	ND	50.00	ug/L	87%		63-126	1
Toluene	42.38	ND	50.00	ug/L	85%		80-120	1
Chlorobenzene	42.84	ND	50.00	ug/L	86%		79-120	1
Surrogates								
Dibromofluoromethane	52.92		50.00	ug/L	106%		70-140	1
1,2-Dichloroethane-d4	59.00		50.00	ug/L	118%		70-140	1
Toluene-d8	48.65		50.00	ug/L	97%		70-140	1
Bromofluorobenzene	48.55		50.00	ug/L	97%		70-140	1

Type: Matrix Spike Duplicate	Lab ID: QC874450	Batch: 248323
Matrix (Source ID): Water (429754-002)	Method: EPA 624	Prep Method: EPA 624

QC874450 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	Lim	DF
MTBE	48.59	ND	50.00	ug/L	97%		75-120	4	20	1
1,1-Dichloroethene	46.55	ND	50.00	ug/L	93%		80-126	4	20	1
Benzene	44.61	ND	50.00	ug/L	89%		80-120	1	20	1
Trichloroethene	42.73	ND	50.00	ug/L	85%		63-126	1	20	1
Toluene	42.76	ND	50.00	ug/L	86%		80-120	1	20	1
Chlorobenzene	43.14	ND	50.00	ug/L	86%		79-120	1	20	1
Surrogates										
Dibromofluoromethane	51.45		50.00	ug/L	103%		70-140			1
1,2-Dichloroethane-d4	57.48		50.00	ug/L	115%		70-140			1
Toluene-d8	48.70		50.00	ug/L	97%		70-140			1
Bromofluorobenzene	48.49		50.00	ug/L	97%		70-140			1

Type: Blank	Lab ID: QC874583	Batch: 248369
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC874583 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Diesel C10-C28	ND		mg/L	0.10	06/27/20	06/29/20
Surrogates						
n-Triacontane	114%		%REC	Limits 50-150	06/27/20	06/29/20

Batch QC

Type: Lab Control Sample	Lab ID: QC874584	Batch: 248369
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC874584 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	0.6002	1.000	mg/L	60%		53-115
Surrogates						
n-Triacontane	0.01887	0.02000	mg/L	94%		50-150

Type: Lab Control Sample Duplicate	Lab ID: QC874585	Batch: 248369
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC874585 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Diesel C10-C28	0.9145	1.000	mg/L	91%		53-115	42*	20
Surrogates								
n-Triacontane	0.02231	0.02000	mg/L	112%		50-150		

Type: Lab Control Sample	Lab ID: QC874720	Batch: 248408
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC874720 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
TPH Gasoline	519.0	500.0	ug/L	104%		70-130
Surrogates						
Bromofluorobenzene (FID)	223.0	200.0	ug/L	112%		60-140

Type: Lab Control Sample Duplicate	Lab ID: QC874721	Batch: 248408
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC874721 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
TPH Gasoline	526.0	500.0	ug/L	105%		70-130	1	30
Surrogates								
Bromofluorobenzene (FID)	220.0	200.0	ug/L	110%		60-140		

Type: Matrix Spike	Lab ID: QC874722	Batch: 248408
Matrix (Source ID): Water (430034-008)	Method: EPA 8015B	Prep Method: EPA 5030B

QC874722 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
TPH Gasoline	2,730	2679	500.0	ug/L	10%	*,NM	70-130	1
Surrogates								
Bromofluorobenzene (FID)	228.0		200.0	ug/L	114%		60-140	1

Batch QC

Type: Matrix Spike Duplicate	Lab ID: QC874723	Batch: 248408
Matrix (Source ID): Water (430034-008)	Method: EPA 8015B	Prep Method: EPA 5030B

QC874723 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
TPH Gasoline	2,700	2679	500.0	ug/L	4%	*,NM	70-130	1	30	1
Surrogates										
Bromofluorobenzene (FID)	226.0		200.0	ug/L	113%		60-140			1

Type: Blank	Lab ID: QC874724	Batch: 248408
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC874724 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
TPH Gasoline	ND		ug/L	50	06/29/20	06/29/20
Surrogates				Limits		
Bromofluorobenzene (FID)	106%		%REC	60-140	06/29/20	06/29/20

* Value is outside QC limits

ND Not Detected

NM Not Meaningful: Sample concentration > 4X spike concentration



ENTHALPY
ANALYTICAL

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 430011
Report Level: II
Report Date: 07/09/2020

Analytical Report *prepared for:*

Imelda Morales
APEX - Signal Hill
1962 Freeman Avenue
Signal Hill, CA 90755

Location: DFSP-Norwalk, 091-NOLA-026

Authorized for release by:

Diane Galvan, Project Manager
714-771-9928
diane.galvan@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038

Sample Summary

Imelda Morales	Lab Job #:	430011
APEX - Signal Hill	Location:	DFSP-Norwalk, 091-NOLA-026
1962 Freeman Avenue	Date Received:	06/24/20
Signal Hill, CA 90755		

Sample ID	Lab ID	Collected	Matrix
EFFLUENT_06-24-20	430011-001	06/24/20 13:06	Water



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

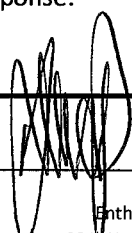
Section 1
 Client: Apex Project: _____
 Date Received: 6/24/20 Sampler's Name Present: Yes No

Section 2
 Sample(s) received in a cooler? Yes, How many? 1 No (skip section 2) Sample Temp (°C) (No Cooler): _____
 Sample Temp (°C), One from each cooler: #1: 15.4 #2: _____ #3: _____ #4: _____
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
 Shipping Information: _____

Section 3
 Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam
 Paper None Other _____
 Cooler Temp (°C): #1: 3.6 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?	✓		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?		✓	
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6
 For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time _____
 Email (email sent to/on): _____ / _____
 Project Manager's response:


Completed By: _____ Date: 6/24/20

Analysis Results for 430011

Imelda Morales
 APEX - Signal Hill
 1962 Freeman Avenue
 Signal Hill, CA 90755

Lab Job #: 430011
 Location: DFSP-Norwalk, 091-NOLA-026
 Date Received: 06/24/20

Sample ID: EFFLUENT_06-24-20	Lab ID: 430011-001	Collected: 06/24/20 13:06
Matrix: Water		

430011-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 624									
Prep Method: EPA 624									
MTBE	ND		ug/L	5.0	1	248230	06/25/20	06/25/20	JTB
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	248230	06/25/20	06/25/20	JTB
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	248230	06/25/20	06/25/20	JTB
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	248230	06/25/20	06/25/20	JTB
tert-Butyl Alcohol (TBA)	ND		ug/L	10	1	248230	06/25/20	06/25/20	JTB
m,p-Xylenes	ND		ug/L	10	1	248230	06/25/20	06/25/20	JTB
o-Xylene	ND		ug/L	5.0	1	248230	06/25/20	06/25/20	JTB
Benzene	ND		ug/L	5.0	1	248230	06/25/20	06/25/20	JTB
Toluene	ND		ug/L	5.0	1	248230	06/25/20	06/25/20	JTB
Ethylbenzene	ND		ug/L	5.0	1	248230	06/25/20	06/25/20	JTB
Xylene (total)	ND		ug/L	5.0	1	248230	06/25/20	06/25/20	JTB
Surrogates				Limits					
Dibromofluoromethane	101%		%REC	70-140	1	248230	06/25/20	06/25/20	JTB
1,2-Dichloroethane-d4	112%		%REC	70-140	1	248230	06/25/20	06/25/20	JTB
Toluene-d8	97%		%REC	70-140	1	248230	06/25/20	06/25/20	JTB
Bromofluorobenzene	98%		%REC	70-140	1	248230	06/25/20	06/25/20	JTB
Method: EPA 8015B									
Prep Method: EPA 5030B									
TPH Gasoline	ND		ug/L	50	1	248408	06/29/20	06/30/20	EMW
Surrogates				Limits					
Bromofluorobenzene (FID)	109%		%REC	60-140	1	248408	06/29/20	06/30/20	EMW
Method: EPA 8015B									
Prep Method: EPA 3510C									
Diesel C10-C28	ND		mg/L	0.094	0.94	248369	06/27/20	06/30/20	MES
Surrogates				Limits					
n-Triacontane	24%	*	%REC	50-150	0.94	248369	06/27/20	06/30/20	MES

* Value is outside QC limits
 ND Not Detected

Batch QC

Type: Blank	Lab ID: QC874199	Batch: 248230
Matrix: Water	Method: EPA 624	Prep Method: EPA 624

QC874199 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	06/25/20	06/25/20
Isopropyl Ether (DIPE)	ND		ug/L	5.0	06/25/20	06/25/20
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	06/25/20	06/25/20
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	06/25/20	06/25/20
tert-Butyl Alcohol (TBA)	ND		ug/L	10	06/25/20	06/25/20
m,p-Xylenes	ND		ug/L	10	06/25/20	06/25/20
o-Xylene	ND		ug/L	5.0	06/25/20	06/25/20
Benzene	ND		ug/L	5.0	06/25/20	06/25/20
Toluene	ND		ug/L	5.0	06/25/20	06/25/20
Ethylbenzene	ND		ug/L	5.0	06/25/20	06/25/20
Xylene (total)	ND		ug/L	5.0	06/25/20	06/25/20
Surrogates				Limits		
Dibromofluoromethane	103%		%REC	70-140	06/25/20	06/25/20
1,2-Dichloroethane-d4	111%		%REC	70-140	06/25/20	06/25/20
Toluene-d8	98%		%REC	70-140	06/25/20	06/25/20
Bromofluorobenzene	94%		%REC	70-140	06/25/20	06/25/20

Type: Lab Control Sample	Lab ID: QC874200	Batch: 248230
Matrix: Water	Method: EPA 624	Prep Method: EPA 624

QC874200 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	46.72	50.00	ug/L	93%		73-120
1,1-Dichloroethene	47.49	50.00	ug/L	95%		80-135
Benzene	44.61	50.00	ug/L	89%		80-120
Trichloroethene	45.86	50.00	ug/L	92%		79-120
Toluene	44.06	50.00	ug/L	88%		80-120
Chlorobenzene	43.65	50.00	ug/L	87%		80-120
Surrogates						
Dibromofluoromethane	51.37	50.00	ug/L	103%		70-140
1,2-Dichloroethane-d4	56.22	50.00	ug/L	112%		70-140
Toluene-d8	50.18	50.00	ug/L	100%		70-140
Bromofluorobenzene	49.13	50.00	ug/L	98%		70-140

Batch QC

Type: Matrix Spike	Lab ID: QC874201	Batch: 248230
Matrix (Source ID): Water (429656-006)	Method: EPA 624	Prep Method: EPA 624

QC874201 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
MTBE	47.98	ND	50.00	ug/L	96%		75-120	1
1,1-Dichloroethene	64.30	ND	50.00	ug/L	129%	*	80-126	1
Benzene	53.61	ND	50.00	ug/L	107%		80-120	1
Trichloroethene	111.6	ND	50.00	ug/L	223%	*	63-126	1
Toluene	68.71	10.40	50.00	ug/L	117%		80-120	1
Chlorobenzene	52.87	ND	50.00	ug/L	106%		79-120	1
Surrogates								
Dibromofluoromethane	47.24		50.00	ug/L	94%		70-140	1
1,2-Dichloroethane-d4	53.03		50.00	ug/L	106%		70-140	1
Toluene-d8	51.53		50.00	ug/L	103%		70-140	1
Bromofluorobenzene	51.18		50.00	ug/L	102%		70-140	1

Type: Matrix Spike Duplicate	Lab ID: QC874202	Batch: 248230
Matrix (Source ID): Water (429656-006)	Method: EPA 624	Prep Method: EPA 624

QC874202 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	Lim	DF
MTBE	48.21	ND	50.00	ug/L	96%		75-120	0	20	1
1,1-Dichloroethene	64.85	ND	50.00	ug/L	130%	*	80-126	1	20	1
Benzene	53.98	ND	50.00	ug/L	108%		80-120	1	20	1
Trichloroethene	113.0	ND	50.00	ug/L	226%	*	63-126	1	20	1
Toluene	68.08	10.40	50.00	ug/L	115%		80-120	1	20	1
Chlorobenzene	53.71	ND	50.00	ug/L	107%		79-120	2	20	1
Surrogates										
Dibromofluoromethane	46.91		50.00	ug/L	94%		70-140			1
1,2-Dichloroethane-d4	52.13		50.00	ug/L	104%		70-140			1
Toluene-d8	51.77		50.00	ug/L	104%		70-140			1
Bromofluorobenzene	50.04		50.00	ug/L	100%		70-140			1

Type: Blank	Lab ID: QC874583	Batch: 248369
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC874583 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Diesel C10-C28	ND		mg/L	0.10	06/27/20	06/29/20
Surrogates						
				Limits		
n-Triacontane	114%		%REC	50-150	06/27/20	06/29/20

Batch QC

Type: Lab Control Sample	Lab ID: QC874584	Batch: 248369
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC874584 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	0.6002	1.000	mg/L	60%		53-115
Surrogates						
n-Triacontane	0.01887	0.02000	mg/L	94%		50-150

Type: Lab Control Sample Duplicate	Lab ID: QC874585	Batch: 248369
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC874585 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Diesel C10-C28	0.9145	1.000	mg/L	91%		53-115	42*	20
Surrogates								
n-Triacontane	0.02231	0.02000	mg/L	112%		50-150		

Type: Lab Control Sample	Lab ID: QC874720	Batch: 248408
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC874720 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
TPH Gasoline	519.0	500.0	ug/L	104%		70-130
Surrogates						
Bromofluorobenzene (FID)	223.0	200.0	ug/L	112%		60-140

Type: Lab Control Sample Duplicate	Lab ID: QC874721	Batch: 248408
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC874721 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
TPH Gasoline	526.0	500.0	ug/L	105%		70-130	1	30
Surrogates								
Bromofluorobenzene (FID)	220.0	200.0	ug/L	110%		60-140		

Type: Matrix Spike	Lab ID: QC874722	Batch: 248408
Matrix (Source ID): Water (430034-008)	Method: EPA 8015B	Prep Method: EPA 5030B

QC874722 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
TPH Gasoline	2,730	2679	500.0	ug/L	10%	*,NM	70-130	1
Surrogates								
Bromofluorobenzene (FID)	228.0		200.0	ug/L	114%		60-140	1

Batch QC

Type: Matrix Spike Duplicate	Lab ID: QC874723	Batch: 248408
Matrix (Source ID): Water (430034-008)	Method: EPA 8015B	Prep Method: EPA 5030B

QC874723 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
TPH Gasoline	2,700	2679	500.0	ug/L	4%	*,NM	70-130	1	30	1
Surrogates										
Bromofluorobenzene (FID)	226.0		200.0	ug/L	113%		60-140			1

Type: Blank	Lab ID: QC874724	Batch: 248408
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC874724 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
TPH Gasoline	ND		ug/L	50	06/29/20	06/29/20
Surrogates				Limits		
Bromofluorobenzene (FID)	106%		%REC	60-140	06/29/20	06/29/20

* Value is outside QC limits
 ND Not Detected
 NM Not Meaningful: Sample concentration > 4X spike concentration

APPENDIX B

LNAPL HAZARDOUS WASTE MANIFEST

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 013708451 FLE	
5. Generator's Name and Mailing Address Defense Logistics Agency Installation Support for Energy 3171 North Gaffey St. San Pedro, CA 90731			Generator's Site Address (if different than mailing address) DFSP Norwalk 15306 Norwalk Blvd. Norwalk, CA 90650			
6. Transporter 1 Company Name Nieto and Sons Trucking, Inc.			U.S. EPA ID Number CAT080016116			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address World Oil Recycling 2000 N. Alameda Street Compton, CA 90222			U.S. EPA ID Number CAT080013352			
Facility's Phone: (310) 537-7100						
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.
	X	1. UN1993, Flammable Liquid, n.o.s., 3, PGI (contains jet fuel)	001	TT	240	G
		2.				
		3. THIS WASTE STREAM HAS BEEN QUALIFIED FOR RECYCLING/TREATMENT AT THE DeMENNO/KERDOON DBA WORLD OIL RECYCLING FACILITY IN COMPTON, CALIFORNIA.				
		4. THIS FACILITY HAS THE NECESSARY PERMITS TO RECEIVE YOUR WASTE STREAM AS QUALIFIED. OUR EPA NUMBER IS CAT080013352				
13. Waste Codes 133						
14. Special Handling Instructions and Additional Information ERG# 128 / Jet Fuel SGI/APEX Contact: Glenn Androska (714) 608-1089 WEAR ALL APPROPRIATE PROTECTIVE CLOTHING BESI PO # 317647						
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 1020 E. LI Williams			Signature 		Month 04	Day 17
						Year 20
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
	17. Transporter Acknowledgment of Receipt of Materials					
TRANSPORTER	Transporter 1 Printed/Typed Name José Cabrera			Signature 		Month 04
	Transporter 2 Printed/Typed Name			Signature		Day 17
						Year 20
DESIGNATED FACILITY	18. Discrepancy					
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
	18b. Alternate Facility (or Generator) BAK Allied			Manifest Reference Number:		
	Facility's Phone:			U.S. EPA ID Number		
18c. Signature of Alternate Facility (or Generator)						
						Month 04
						Day 17
						Year 20
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H039		2.		3.		4.
20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Subroto Chatterjee			Signature 		Month 04	Day 17
						Year 20

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number CAR971524360	2. Page 1 of 1	3. Emergency Response Phone (310) 241-2833	4. Manifest Tracking Number 013708451 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 CAT080016116					
7. Transporter 2 Company Name			U.S. EPA ID Number					
8. Designated Facility Name and Site Address World Oil Recycling 2000 N. Alameda Street Compton, CA 90222 Facility's Phone: (310) 637-7100			U.S. EPA ID Number CAT080013352					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. UN1993, Flammable Liquid, n.o.s., 3, PGII (contains jet fuel)	001	TT	240	G	133		
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information ERG# 126 / Jet Fuels & Groundwater SGII/APEX Contact: Glenn Androska (714) 608-1089								
WEAR ALL APPROPRIATE PROTECTIVE CLOTHING								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name Todd Williams			Signature <i>[Signature]</i>		Month Day Year 04 17 20			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Jose Cabrera			Signature <i>[Signature]</i>		Month Day Year 04 17 20			
Transporter 2 Printed/Typed Name			Signature		Month Day Year			
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
Manifest Reference Number: _____								
18b. Alternate Facility (or Generator)				U.S. EPA ID Number				
Facility's Phone: _____								
18c. Signature of Alternate Facility (or Generator)				Month Day Year				
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1.	2.	3.	4.					
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name			Signature		Month Day Year			

Certificate of Treatment/Recycling

ISSUED TO

DEFENSE LOGISTICS / DFSP NOR

FOR

MANIFEST NUMBER 013708451FLE

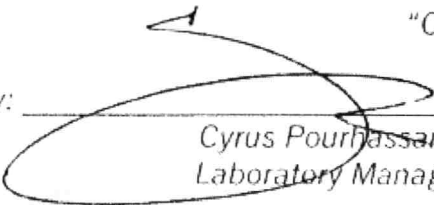
DATE RECEIVED 4/17/2020

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

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

DeMENNO/KERDOON
"Compliance Through Recycling"

By:


Cyrus Pourhassanian
Laboratory Manager

Date: 5/7/2020

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

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