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August 10, 2023

Mr. Paul Cho, P.G.
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Los Angeles Regional Water Quality Control Board
320 West 4th Street, Suite 200
Los Angeles, California, 90013

Dear Mr. Cho:

Enclosed is one electronic copy of the *Remediation Status Report – Second Quarter 2023* for the 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 require additional information concerning this document, please contact me at (571) 767-3022 or william.potter@dla.mil.

Sincerely,

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William Y. Potter, P.G.
Restoration Branch Chief

Enclosure
As stated

cc: Neil Irish, P.G., Vice President/Division Manager, SGI/Apex

REMEDICATION STATUS REPORT – SECOND QUARTER 2023
DEFENSE FUEL SUPPORT POINT NORWALK
15306 Norwalk Boulevard
Norwalk, California

SGI Project No. 091-NDLA-018
DLA Contract No. SPE603-20-D-5008, CLIN 002

Prepared For:



Defense Logistics Agency - Energy
Environmental Division Restoration Branch
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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	Defense Logistics Agency - Energy 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
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
RWQCB	California Regional Water Quality Control Board, Los Angeles Region
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 - Energy (DLA), The Source Group, Inc., a subsidiary of Apex Companies, LLC (SGI/Apex) presents this report to summarize remediation system operations during the Second Quarter 2023 (April – June) operating period 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 (RWQCB) 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, passive skimming, absorbent socks, and active pumping using a portable skimming pump or vacuum truck. The above ground treatment of contaminated vadose zone soils excavated at the Site was conducted from April 2015 until March 2017 (see SGI/Apex'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. Further drilling and expansion work was completed during the First Quarter 2023, which will be summarized in the forthcoming *Treatment Well Installation and System Expansion Report*, to be submitted during the next reporting period.

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 on 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, a Bayoxide vessel for arsenic removal (added on June 22, 2022 [B-1]), and two coal-based carbon (GAC) vessels in series (750 lb GAC-1 and 2,000 lb GAC-2). The final two GAC vessels (1,500 lb GAC-4 and 2,000 lb GAC-3) were removed from the treatment process during the Third Quarter 2021 and Second Quarter 2023, respectively. GAC-3 was placed in standby position and GAC-4 is no longer operable. The groundwater is then discharged to the sanitary sewer.

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

Biosparge wells for hydrocarbon removal from dissolved-phase subsurface impacts are located throughout the Site. The biosparge system was off-line pending completion of soil cleanup activities per SGI/Apex's January 2018 *Shallow Soil Closure Report*. System recommissioning work was completed during Fourth Quarter 2018 in accordance with SGI/Apex'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.

Biosparge system influence testing was performed during the Fourth Quarter 2021 and is summarized in SGI/Apex's February 11, 2022 *Remediation Status Report – Fourth Quarter 2021*.

Subsequently, biosparge system optimization was performed during the Fourth Quarter 2021. During the Second Quarter 2022, biosparge trunkline cycles were further adjusted at the control panel to alternate between eight groups rather than four, increasing pressure and flow to each well. Follow up monitoring is planned to verify system effectiveness and allow for any necessary adjustments to injection rates and/or cycling times. The Biosparge system was shut down December 16, 2022 due to well installation and expansion work. Well installation was completed in March 2023, and conveyance piping and system modifications were completed in early May 2023. Installation of a new, higher capacity compressor occurred in early June 2022, and startup testing was conducted in late June. The new compressor is a Kaeser ASD-40 rotary screw compressor capable of 191 cubic feet per minute at 125 pounds per square inch gauge discharge. The biosparge system will be restarted in early July, after startup testing of the new wells is complete. A summary of well installation and associated system expansion will be provided in a separate submittal (*Treatment Well Installation and System Expansion Report*) during the next reporting period.

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/Apex'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.

During the First Quarter 2023, drilling efforts for installation of additional horizontal and vertical treatment (vapor extraction and biosparge) wells were completed. These additional wells are intended to target the remaining high concentration impacted areas in preparation for land development by the City of Norwalk. A summary of well installation and associated system expansion

will be provided in a separate submittal (*Treatment Well Installation and System Expansion Report*) during the next reporting period.

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, and are followed by a pair of tertiary vessels, each 2,000 pounds, installed in parallel.

Operation of the carbon VES is currently conducted in accordance with SCAQMD Permit to Operate G12863, A/N 518989 issued on April 15, 2011. This permit was modified under A/N 568793 and a 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/Apex'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 in March 2019, shortly after the temporary VES was shut down. 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.

The thermal oxidizer VES operated this quarter in catalytic mode. Upon installation of a new catalytic cell on March 26, 2021, soil vapors from the thermal oxidizer VES knockout tank are heated to a minimum temperature of 750°F prior to atmospheric discharge. 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 central area 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 measurable liquid-phase hydrocarbons during the second semiannual 2022 monitoring event is presented on Figure 3.

1.2.5 Above Ground Soil Treatment

Per SGI/Apex'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/Apex's January 2018 *Shallow Soil Closure Report* and September 2018 *Addendum to the Shallow Soil Closure Report – Western Portion*. The RWQCB granted a no further action (NFA) determination for the shallow soil in the upper 10 feet of the Site's eastern 15-acre parcel on April 19, 2018. The NFA determination was contingent upon declaration of covenant and environmental restriction, which was recorded on September 27, 2018. Regulatory closure of shallow soil in the western part of the Site is pending.

1.2.6 Soil Management

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

2.0 OPERATIONS, MAINTENANCE AND MONITORING

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

- Performed minimum weekly maintenance and monitoring of the 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 and analyzed influent and effluent groundwater samples from the GWETS.
- 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 is conducted semiannually and quarterly (chemical oxygen demand [COD] and suspended solids [SS] only) since January 1, 2020.

Wells GMW-31 and GW-14R, which have had no measurable LNAPL since December 2019, were connected to the GWETS on March 11, 2020, and began operation May 14, 2020 and May 18, 2020, respectively.

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/Apex'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 VES and thermal oxidizer VES 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 decreased allowing for the installation of the catalytic cell on March 26, 2021. Maximum gasoline range organic (GRO), benzene and MTBE concentrations this period are 900 micrograms per liter ($\mu\text{g/L}$), 0.14 $\mu\text{g/L}$ and non-detect (ND) $<1.0 \mu\text{g/L}$, respectively. Maximum historic levels for these constituents were previously 14,000 $\mu\text{g/L}$ for GRO (October/December 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 throughout the central and eastern areas of the Site. As summarized in 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 eastern area, central area, and southern area of the Site (Figure 2) in accordance with SGI/Apex'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 were not conducted this quarter as the system was offline as discussed in section 1.2.2. Upon restart, biosparge operations will continue 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. All product is placed in an AST located within the existing treatment compound. Mass and volume removal estimates using these techniques are summarized in Tables 7A, 7B, 7N, 7O, 7P and 7R along with associated LNAPL gauging results.

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 that time, the system consisted of six pneumatically activated product removal pumps deployed in key wells located in the central area 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. No product was transported during this reporting period. 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 based on current gauging and yield data. The Product recovery system was not operated this quarter due to a decrease of 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, an estimated 9,962 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).

Based on field photoionization detector (PID) readings (Tables 9B through 9D) and previous quarters laboratory concentrations (Table 10), the catalytic cell for the thermal oxidizer VES was installed on March 26, 2021. Wells in the southern area were connected to the carbon VES system on March 19, 2021.

The total mass of VOCs removed via the carbon and the thermal oxidizer extraction systems during this period was approximately 3,667 pounds (279 pounds via the carbon VES and 3,388 pounds via the thermal oxidizer VES). An estimated 2,988,995 pounds have been removed since April 1996 (Table 3C) via the carbon VES and approximately 375,624 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; and RW-2, RW-7, RW-8, RW-6, RW-15, RW-16, and RW-17 were brought online on April 16, 2020. 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.

As stated in section 1.2.2, well installation and system expansion work completed during the First Quarter 2023 will be discussed in a separate submittal (*Treatment Well Installation and System Expansion Report*) during the next reporting period

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-22, TFR-24, TFR-29 and RTF-18-E (Tables 7A, 7B, 7N, 7O, 7P and 7R).

A total of approximately 10 gallons (70 pounds) of LNAPL was removed from the Site during this quarter, and an estimated 10,537 gallons (71,191 pounds) of LNAPL has been removed since January 2014.

3.4.1 LNAPL Removal Via Bailing, Skimming and Absorbent Socks

Approximately 10 gallons (70 pounds) of LNAPL was removed via manual bailing, active pumping using a portable product skimmer and/or by utilizing absorbent socks from wells GMW-62, GMW-68, TFR-22, TFR-24, TFR-29 and RTF-18-E during this reporting period (Tables 7A, 7B, 7N, 7O, 7P and 7R).

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. Based on low LNAPL yields, the product recovery system was offline during this reporting period. If LNAPL thicknesses increase, pumping may resume from these wells during the next reporting period. LNAPL gauging results along with cumulative mass and volume removal estimates are summarized in Tables 7E through 7W.

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.

SGI/Apex 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, 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.

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. Due to a decline in measurable LNAPL, operation of the product recovery system has temporarily ceased to allow LNAPL recovery.

Up-to-date gauging data will continue to be collected as needed during the next reporting period with rotating recovery operations being implemented based on 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 resume pending installation and connection of the new, higher capacity compressor. Upon restart, trunkline configuration and run time schedule will be evaluated and adjusted as needed. Biosparge operations will continue to 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.

5.0 PLANNED THIRD QUARTER 2023 ACTIVITIES

During the next reporting period, DLA plans to continue to focus in-situ remedial efforts on the central area, eastern area, and southern area of the Site. Following is a summary of planned Third Quarter 2023 OM&M activities:

- Continue minimum weekly maintenance and monitoring of the thermal oxidizer VES, including newly connected trunklines 6 & 7. 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) to evaluate any appearance and/or increase in LNAPL thicknesses and the potential for active/passive product recovery.
- If sufficient LNAPL yield is observed, resume operation of TFR-22 and TFR-29 and continue controlled product recovery system OM&M.
- 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 permanent thermal oxidizer VES operations to cost-effectively process 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 carbon VES.
- Continue to evaluate influent vapor concentrations to the thermal oxidizer VES after installation of the catalytic cell.
- Monitor oxygen (O₂) and CO₂ concentrations in influent vapor; data will be used to validate the estimated biosparge system mass destruction and help provide technical basis for the transition to a passive remedy (e.g. natural source zone depletion).
- Evaluate converting low concentration HW wells to biovent wells for bioremediation.

- Continue minimum weekly maintenance and monitoring of the 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.
- Evaluate biosparge trunkline cycling configuration and make adjustments as needed to optimize air delivery to treatment wells located in previously identified “hot-spot” areas.
- Monitor air delivery to new vertical and horizontal wells to confirm stable & effective operation and evaluate head loss between manifold and wellheads.
- Monitor pressure response and groundwater mounding nearby monitoring wells targeted by new treatment wells during biosparging operations to verify influence.
- Monitor dissolved oxygen and oxidation reduction potential in monitoring wells targeted by the new biosparge treatment wells to evaluate influence and treatment efficacy.

Ongoing remediation activities and progress will be described in the *Third Quarter 2023 Remediation Progress Report* to be submitted by November 15, 2023.

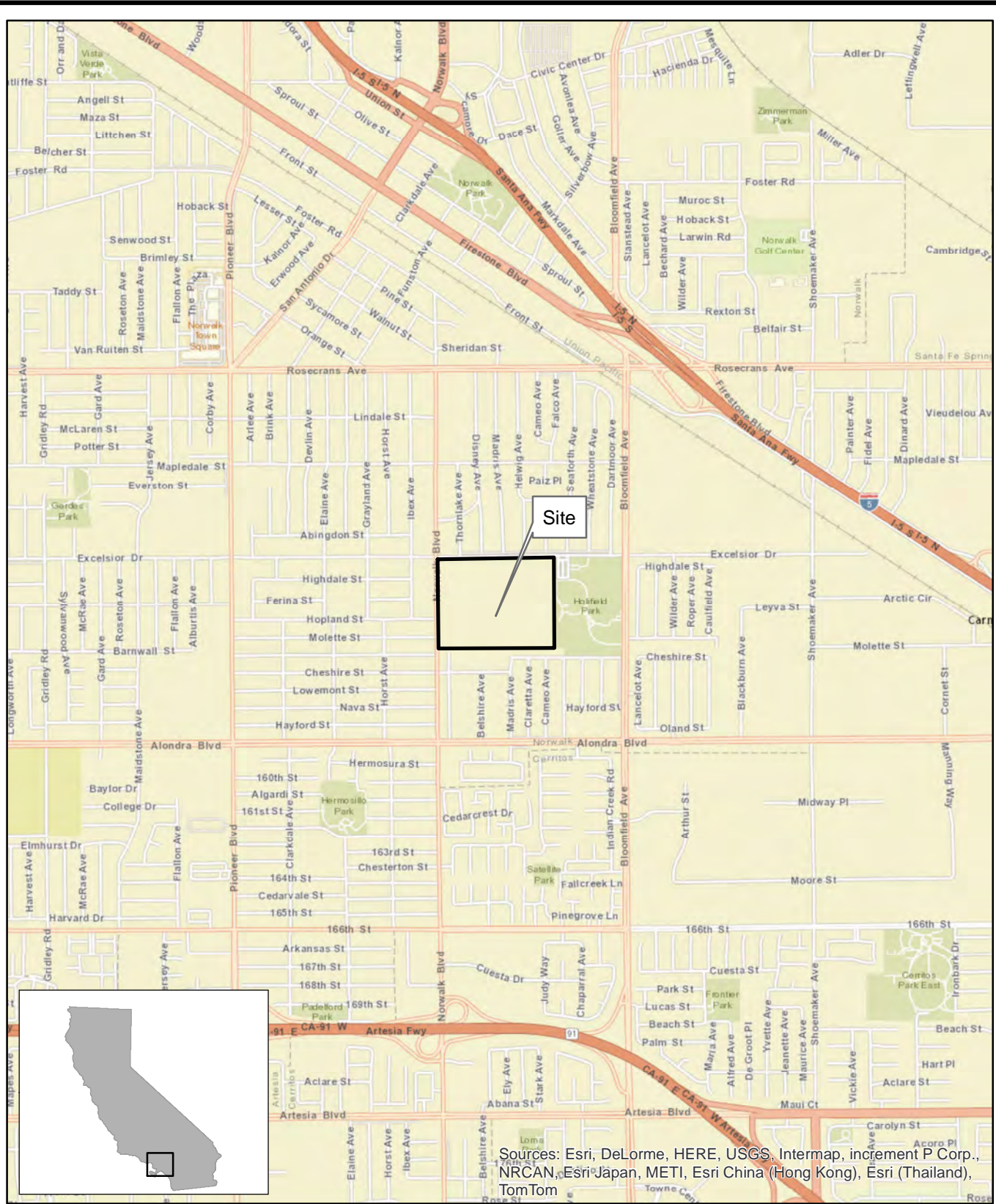
6.0 LIMITATIONS

This document was prepared for the exclusive use of the DLA and the RWQCB for the express purpose of complying with a client or regulatory directive for environmental investigation or restoration. SGI/Apex and DLA 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/Apex or DLA.

To the extent that this report is based on information provided to SGI/Apex by third parties, including DLA, their direct contractors, previous personnel, and other stakeholders, SGI/Apex cannot guarantee the completeness or accuracy of this information, even where efforts were made to verify third-party information. SGI/Apex 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 and RWQCB personnel in applying their own professional judgment in making decisions related to the property. SGI/Apex cannot provide conclusions on environmental conditions outside the completed scope of work. SGI/Apex 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

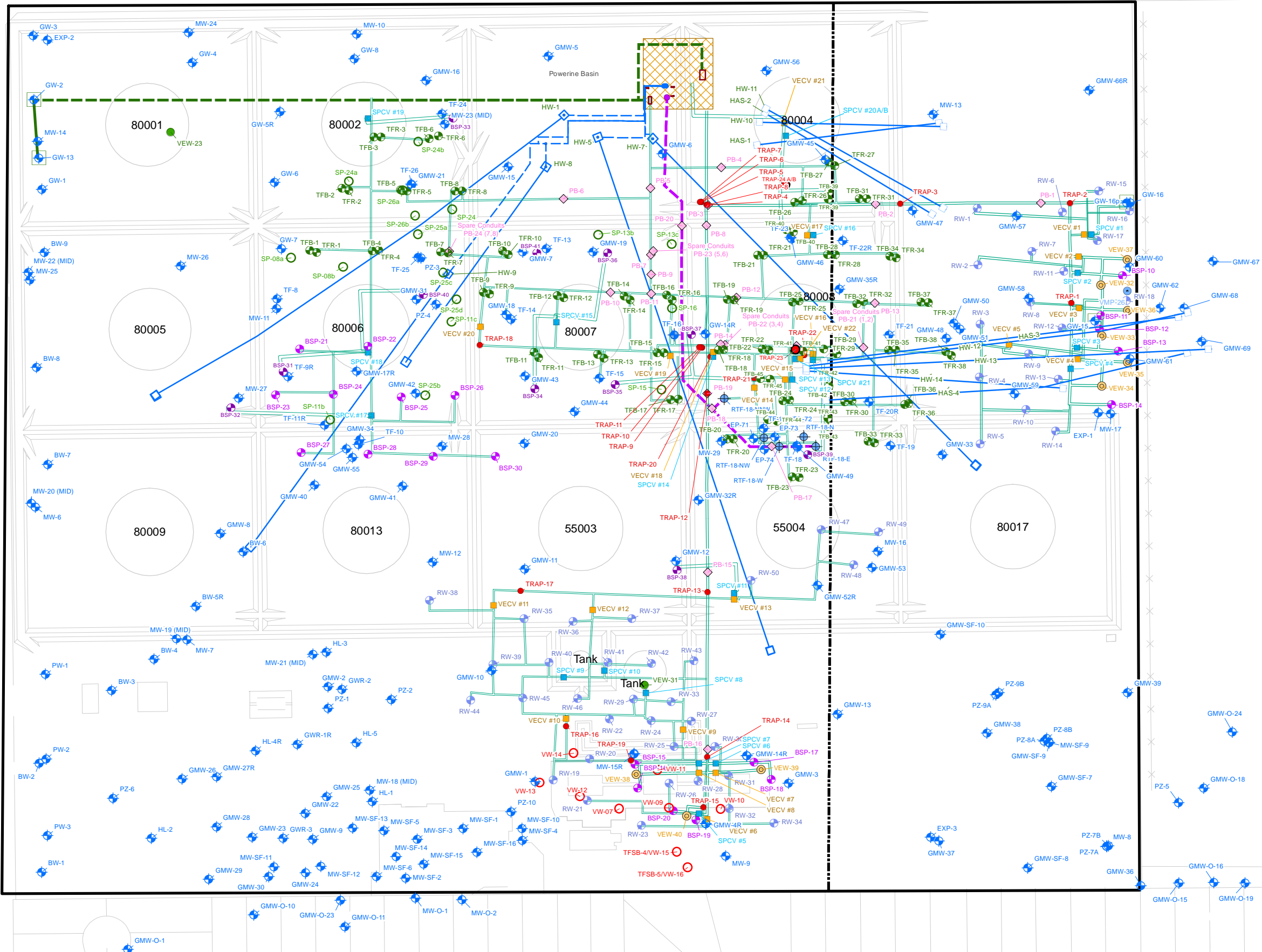
SITE LOCATION MAP

FIGURE
1


























Document Path: Z:\GIS_Repository\Signal Hill\DLA_Norwalk\GIS_Maps\Biosparging_2016-2017\Fig-2-All Well & Piping_Connections_08032023.mxd

Excelsior Dr

Norwalk Blvd



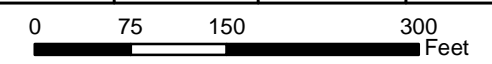
Legend

-  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	08/04/2023	SM	BT

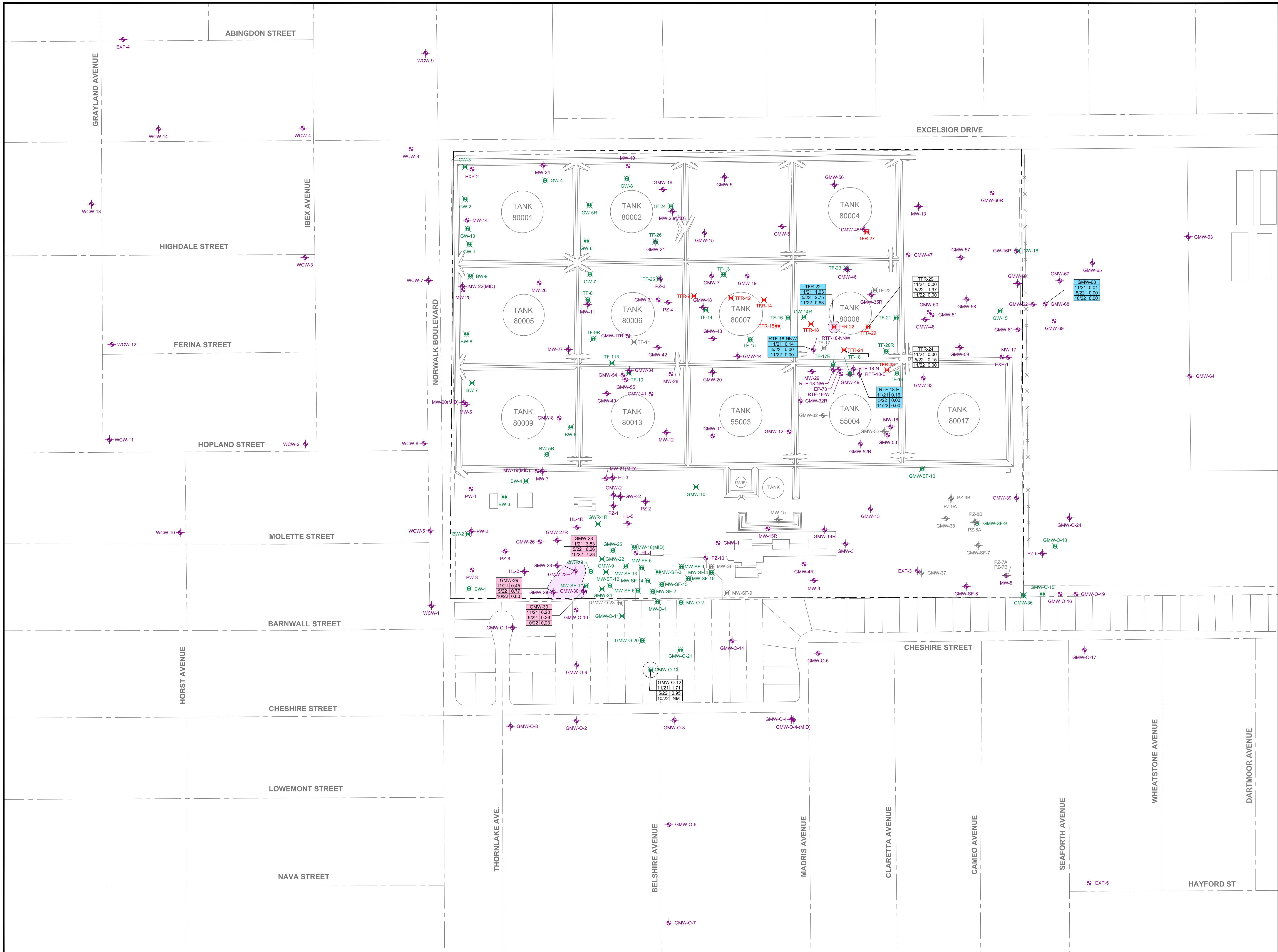


Site Map Showing All Well and Piping Locations



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

Figure
2

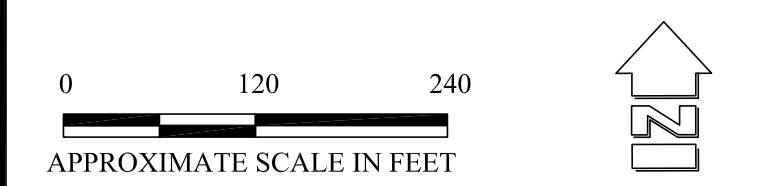


EXPLANATION:

- FORMER ABOVEGROUND STORAGE TANKS
 - DFSP NORWALK BORDER
 - GROUNDWATER MONITORING WELL
 - TOTAL FLUIDS RECOVERY WELL
 - WELLS SHOWN IN GREY HAVE BEEN DECOMMISSIONED
 - EXTRACTION WELL USED FOR VAPOR, GROUNDWATER, TOTAL FLUIDS, OR FLOATING PRODUCT EXTRACTION
- MEASURED PRODUCT THICKNESS IN FEET FOR THE THREE MOST RECENT SEMI-ANNUAL EVENTS; WHERE THE DATASET IS SHOWN IN WHITE, THE MEASURED THICKNESS HAS REMAINED SIMILAR (CHANGE IS LESS THAN 10%) AT THAT LOCATION SINCE THE FALL 2021 SEMI-ANNUAL MONITORING EVENT, OR THE DATASET SHOWN DOES NOT PROVIDE A BASIS FOR COMPARISON
- WHERE THE DATASET IS SHOWN IN RED, THE MEASURED PRODUCT THICKNESS HAS INCREASED BY 10% OR MORE AT THAT LOCATION SINCE THE FALL 2021 SEMI-ANNUAL MONITORING EVENT
- WHERE THE DATASET IS SHOWN IN BLUE, THE MEASURED PRODUCT THICKNESS HAS DECREASED BY 10% OR MORE AT THAT LOCATION SINCE THE FALL 2021 SEMI-ANNUAL MONITORING EVENT
- NM NOT MEASURED
 - ESTIMATED EXTENT OF MEASURABLE LIGHT NONAQUEOUS PHASE LIQUID (LNAPL, FLOATING PRODUCT) ON GROUNDWATER
 - MONITORING WELL GMW-O-12 WAS INACCESSIBLE AND COULD NOT BE GAUGED; THE PRESENCE OF FLOATING PRODUCT IS INFERRED BASED UPON HISTORICAL DATA

SURVEY NOTES:

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



DATE: 11/2022	FILE NAME: DFSP-Norwalk-SE2-22.dwg
PROJECT No.: 091-NOR-001	CONTRACT: SPE603-20-D-5008

**DISTRIBUTION OF FLOATING PRODUCT ON GROUNDWATER
SECOND SEMI-ANNUAL 2022
MONITORING EVENT**

DFSP NORWALK
15306 NORWALK BOULEVARD
NORWALK, CALIFORNIA

TABLES

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

Remediation Area	Location	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
Central Area	Northwest Corner (AST 80001)	GW-1		06/12/95	75.97	63	25 - 60	GWE
		GW-2		06/12/95	75.78	63	25 - 60	GWE
		GW-3		06/13/95	75.79	63	25 - 60	GWE
		GW-4		06/12/95	75.78	63	25 - 60	GWE
		GW-13		04/26/07	76.85	67	25 - 65	GWE
		VEW-23		08/03/04	76.20	25	15 - 25	SVE
Central Area	North (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 80001, AST 55004)	VEW-22	16	--	--	25	15 - 25	SVE
		HW-1	14	--	--	25	Continuous	SVE
		HW-3	14, 17, 18	--	--	25	Continuous	SVE
		HW-5	14	--	--	25	Continuous	SVE
		HW-7	14	--	--	25	Continuous	SVE
		HW-8	19	06/07/19	--	30	60	SVE
		HW-9	19	06/07/19	--	29	220	SVE
		HW-10	20	01/12/23	--	30	135 (continuous)	SVE
		HW-11	20	01/12/23	--	30	120 (continuous)	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		



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 80004, AST 80006, AST 80007, AST 80008, AST 80001, AST 55004)	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		
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



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 80004, AST 80006, AST 80007, AST 80008, AST 80013, AST 55003, AST 55004)	BSP-30	10	12/11/17	--	46	43 - 45	Biosparge
		BSP-31	20	02/22/23	--	46	43.5 - 45.5	Biosparge
		BSP-32	20	02/22/23	--	46	43.5 - 45.5	Biosparge
		BSP-33	20	02/21/23	--	46	43 - 45	Biosparge
		BSP-34	20	02/17/23	--	46	43 - 45	Biosparge
		BSP-35	20	02/16/23	--	46	43 - 45	Biosparge
		BSP-36	20	02/17/23	--	46	43 - 45	Biosparge
		BSP-37	20	02/16/23	--	46	43 - 45	Biosparge
		BSP-38	20	02/15/23	--	46	43 - 45	Biosparge
		BSP-39	20	02/13/23	--	46	43 - 45	Biosparge
		BSP-40	20	02/21/23	--	46	43 - 45	Biosparge
		BSP-41	20	02/21/23	--	51	48 - 50	Biosparge
		HAS-1	20	--	--	40	50	Biosparge
		HAS-2	20	--	--	40	100	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		

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 80004, AST 80006, AST 80007, AST 80008, AST 80013, AST 55003, AST 55004)	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
		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		



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 80004, AST 80006, AST 80007, AST 80008, AST 80013, AST 55003, AST 55004)	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
		TFB-39	20	02/09/23	77.65	46	43 - 45	Biosparge
		TFB-40	20	02/09/23	78.44	46	43 - 45	Biosparge
		TFB-41	20	02/10/23	77.14	46	43 - 45	Biosparge
		TFB-42	20	02/14/23	76.97	46	43 - 45	Biosparge
		TFB-43	20	02/14/23	76.70	46	43.5 - 45.5	Biosparge
		TFB-44	20	02/10/23	76.51	46	43.5 - 45.5	Biosparge
		TFB-45	20	02/13/23	77.10	46	43.5 - 45.5	Biosparge
		TFR-39	20	02/06/23	77.77	40	20 - 40	TFE, SVE
		TFR-40	20	02/06/23	78.50	40	20 - 40	TFE, SVE
		TFR-41	20	02/08/23	77.18	40	20 - 40	TFE, SVE
		TFR-42	20	02/07/23	77.01	40	20 - 40	TFE, SVE
		TFR-43	20	02/07/23	77.03	40	20 - 40	TFE, SVE
		TFR-44	20	02/15/23	76.98	40	20 - 40	TFE, SVE
		TFR-45	20	02/08/23	77.20	40	20 - 40	TFE, SVE
		RW-35	10	11/15/17	--	33 / 46	13 - 33 / 43 - 45	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	
Central Area	North	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	
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		



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	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		
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
		HAS-3	20	12/18/22	--	50	100	Biosparge
		HAS-4	20	12/21/22	--	50	200	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

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	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	
		HW-12	20	12/14/22		77.00	30	120 feet (continuous)	SVE
		HW-13	20	12/12/22		77.03	30	145 feet (continuous)	SVE
		HW-14	20	--		--	30	105	SVE
		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		



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	VW-12		03/23/04	75.79	30.5	15 - 30	SVE
		VW-13		03/23/04	75.42	29	25 - 29	SVE
		VW-14		03/23/04	75.89	28	15 - 28	SVE
		VW-15		04/14/04	75.45	30	20 - 30	SVE
		VW-16		04/14/04	75.29	30	20 - 30	SVE

Legend/Notes :

ft msl = Feet above mean sea level
 ft bgs = Feet below ground surface
 AST = Aboveground storage tank
 BSP = Biosparge
 BS = Biosparge
 HW = Horizontal Well
 GW/GWE = Groundwater extraction
 RTF = Recovery Total Fluids
 RW = Recovery Well
 SP = Sparge
 SVE = Soil vapor extraction
 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.
- 20 = Recently installed per SGI's upcoming *Treatment Well Installation and System Expansion Report (pending)*.



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

Date	Data Source	Notes	GW-14R Totalizer Reading (gallons)	GMW-31 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from Eastern Area (gallons)	Groundwater Extracted from Central Area (gallons)	Discharge Totalizer Reading (gallons)	Groundwater Extracted and Treated (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
4/1/23	*		--	--	--	--	--	--	--	--	9,960.44
4/2/23	*		--	--	--	--	--	--	--	--	9,960.46
4/3/23	Technician		1,504,986	791,155	1,963,338	1,963,338	2,296,141	4,377,799	20,050	--	9,960.48
4/4/23	*		--	--	--	--	--	--	--	--	9,960.50
4/5/23	Technician		1,509,763	793,251	1,967,626	1,967,626	2,303,015	4,388,573	10,774	--	9,960.52
4/6/23	*		--	--	--	--	--	--	--	--	9,960.53
4/7/23	*		--	--	--	--	--	--	--	--	9,960.55
4/8/23	*		--	--	--	--	--	--	--	--	9,960.57
4/9/23	*		--	--	--	--	--	--	--	--	9,960.59
4/10/23	*		--	--	--	--	--	--	--	--	9,960.60
4/11/23	*		--	--	--	--	--	--	--	--	9,960.62
4/12/23	*		--	--	--	--	--	--	--	--	9,960.64
4/13/23	*		--	--	--	--	--	--	--	--	9,960.65
4/14/23	Technician		1,531,261	802,685	1,986,921	1,986,921	2,333,946	4,437,054	48,481	--	9,960.67
4/15/23	*		--	--	--	--	--	--	--	--	9,960.69
4/16/23	*		--	--	--	--	--	--	--	--	9,960.71
4/17/23	*		--	--	--	--	--	--	--	--	9,960.72
4/18/23	*		--	--	--	--	--	--	--	--	9,960.74
4/19/23	Technician	1	1,545,922	805,768	1,998,907	1,998,907	2,351,690	4,464,942	27,888	650	9,960.77
4/20/23	*		--	--	--	--	--	--	--	--	9,960.80
4/21/23	*		--	--	--	--	--	--	--	--	9,960.82
4/22/23	*		--	--	--	--	--	--	--	--	9,960.85
4/23/23	*		--	--	--	--	--	--	--	--	9,960.87
4/24/23	*		--	--	--	--	--	--	--	--	9,960.90
4/25/23	*		--	--	--	--	--	--	--	--	9,960.93
4/26/23	*		--	--	--	--	--	--	--	--	9,960.95
4/27/23	*		--	--	--	--	--	--	--	--	9,960.98
4/28/23	Technician		1,570,561	806,477	2,018,680	2,018,680	2,377,038	4,507,249	42,307	--	9,961.00
4/29/23	*		--	--	--	--	--	--	--	--	9,961.03
4/30/23	*		--	--	--	--	--	--	--	--	9,961.05

Cumulative Groundwater Discharged by the GWETS to Date (gallons)							
Period	April	Quarter 1, 2023	Quarter 2, 2023	Quarter 3, 2023	Quarter 4, 2023	2023 to Date	April 1996 to Date
Volume	158,800	374,702	158,800	--	--	533,502	82,929,256

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	April	Quarter 2 to Date	April 1996 to Date
Mass	0.63	0.63	9,961.1

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

Legend / Notes:

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

Groundwater extraction wells on line this month: GW-14R, GMW-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

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

-- = Not applicable

lb = Pounds

DRO = Diesel range organics



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

Date	Data Source	Notes	GW-14R Totalizer Reading (gallons)	GMW-31 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from Eastern Area (gallons)	Groundwater Extracted from Central Area (gallons)	Discharge Totalizer Reading (gallons)	Groundwater Extracted and Treated (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
5/1/23	*		--	--	--	--	--	--	--	--	9,961.08
5/2/23	*		--	--	--	--	--	--	--	--	9,961.10
5/3/23	*		--	--	--	--	--	--	--	--	9,961.13
5/4/23	*		--	--	--	--	--	--	--	--	9,961.15
5/5/23	Technician		1,588,480	806,486	2,033,533	2,033,533	2,394,966	4,539,992	32,743	--	9,961.18
5/6/23	*		--	--	--	--	--	--	--	--	9,961.21
5/7/23	*		--	--	--	--	--	--	--	--	9,961.25
5/8/23	*		--	--	--	--	--	--	--	--	9,961.28
5/9/23	*		--	--	--	--	--	--	--	--	9,961.31
5/10/23	*		--	--	--	--	--	--	--	--	9,961.35
5/11/23	*		--	--	--	--	--	--	--	--	9,961.38
5/12/23	*		--	--	--	--	--	--	--	--	9,961.42
5/13/23	*		--	--	--	--	--	--	--	--	9,961.45
5/14/23	*		--	--	--	--	--	--	--	--	9,961.48
5/15/23	*		--	--	--	--	--	--	--	--	9,961.52
5/16/23	*		--	--	--	--	--	--	--	--	9,961.55
5/17/23	*		--	--	--	--	--	--	--	--	9,961.59
5/18/23	*		--	--	--	--	--	--	--	--	9,961.62
5/19/23	Technician	1	1,635,029	823,592	2,062,249	2,062,249	2,458,621	4,626,794	86,802	--	9,961.65
5/20/23	*		--	--	--	--	--	--	--	--	9,961.66
5/21/23	*		--	--	--	--	--	--	--	--	9,961.68
5/22/23	*		--	--	--	--	--	--	--	--	9,961.69
5/23/23	Technician	2, 3, 4	1,638,724	825,278	2,064,859	2,064,859	2,464,003	4,636,326	9,532	--	9,961.70
5/24/23	Technician	5	1,639,648	825,700	2,065,512	2,065,512	2,465,348	4,638,709	2,383	350	9,961.71
5/25/23	*		--	--	--	--	--	--	--	--	9,961.73
5/26/23	*		--	--	--	--	--	--	--	--	9,961.74
5/27/23	*		--	--	--	--	--	--	--	--	9,961.76
5/28/23	*		--	--	--	--	--	--	--	--	9,961.78
5/29/23	*		--	--	--	--	--	--	--	--	9,961.80
5/30/23	*		--	--	--	--	--	--	--	--	9,961.82
5/31/23	*		--	--	--	--	--	--	--	--	9,961.83

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	May	Quarter 1, 2023	Quarter 2, 2023	Quarter 3, 2023	Quarter 4, 2023	2023 to Date	April 1996 to Date
Volume	164,847	374,702	323,646	--	--	698,348	83,094,102

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	May	Quarter 2 to Date	April 1996 to Date
Mass	0.78	1.41	9,961.8

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

Legend / Notes:

- 1 = GWETS manually shut down pending media change out work.
- 2 = Media change out work conducted.
- 3 = LGAC-1 removed from treatment process.
- 4 = LGAC-3 added to treatment process.
- 5 = Collected monthly influent and effluent water samples for 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
- A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit used) from sample collected this month.
- = Not applicable
- lb = Pounds
- DRO = Diesel range organics



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

Date	Data Source	Notes	GW-14R Totalizer Reading (gallons)	GMW-31 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from Eastern Area (gallons)	Groundwater Extracted from Central Area (gallons)	Discharge Totalizer Reading (gallons)	Groundwater Extracted and Treated (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
6/1/23	*		--	--	--	--	--	--	--	--	9,961.85
6/2/23	Technician		1,663,761	836,661	2,084,378	2,084,378	2,500,422	4,694,989	56,280	--	9,961.87
6/3/23	*		--	--	--	--	--	--	--	--	9,961.89
6/4/23	*		--	--	--	--	--	--	--	--	9,961.91
6/5/23	Technician		1,671,900	840,455	2,089,908	2,089,908	2,512,355	4,710,602	15,613	--	9,961.92
6/6/23	Technician		1,674,426	841,677	2,091,540	2,091,540	2,516,103	4,717,334	6,732	--	9,961.94
6/7/23	*		--	--	--	--	--	--	--	--	9,961.96
6/8/23	Technician	1	1,680,396	844,506	2,095,560	2,095,560	2,524,902	4,733,419	16,085	340	9,961.98
6/9/23	*		--	--	--	--	--	--	--	--	9,962.00
6/10/23	*		--	--	--	--	--	--	--	--	9,962.01
6/11/23	*		--	--	--	--	--	--	--	--	9,962.02
6/12/23	Technician		1,692,315	850,106	2,105,920	2,105,920	2,542,421	4,750,703	17,284	--	9,962.03
6/13/23	*		--	--	--	--	--	--	--	--	9,962.03
6/14/23	*		--	--	--	--	--	--	--	--	9,962.03
6/15/23	*		--	--	--	--	--	--	--	--	9,962.03
6/16/23	*		--	--	--	--	--	--	--	--	9,962.03
6/17/23	*		--	--	--	--	--	--	--	--	9,962.03
6/18/23	*		--	--	--	--	--	--	--	--	9,962.03
6/19/23	*		--	--	--	--	--	--	--	--	9,962.03
6/20/23	*		--	--	--	--	--	--	--	--	9,962.03
6/21/23	Technician	2	1,692,912	850,420	2,106,441	2,106,441	2,543,332	4,750,803	100	--	9,962.03
6/22/23	Off line		--	--	--	--	--	--	--	--	9,962.03
6/23/23	Technician	3	1,692,912	850,420	2,106,441	2,106,441	2,543,332	4,750,803	0	--	9,962.03
6/24/23	*		--	--	--	--	--	--	--	--	9,962.06
6/25/23	*		--	--	--	--	--	--	--	--	9,962.09
6/26/23	*		--	--	--	--	--	--	--	--	9,962.11
6/27/23	*		--	--	--	--	--	--	--	--	9,962.14
6/28/23	*		--	--	--	--	--	--	--	--	9,962.17
6/29/23	*		--	--	--	--	--	--	--	--	9,962.20
6/30/23	Technician		1,712,831	860,573	2,121,620	2,121,620	2,573,404	4,816,124	65,321	--	9,962.22

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	June	Quarter 1, 2023	Quarter 2, 2023	Quarter 3, 2023	Quarter 4, 2023	2023 to Date	April 1996 to Date
Volume	134,729	374,702	458,375	--	--	833,077	83,228,831

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	June	Quarter 2 to Date	April 1996 to Date
Mass	0.39	1.80	9,962.2

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

Legend / Notes:

- 1 = Collected monthly influent and effluent water samples for laboratory analysis.
- 2 = GWETS automatically shut down due to surge tank high level alarm.
- 3 = GWETS restarted following maintenance.

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

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

-- = Not applicable

lb = Pounds

DRO = Diesel range organics



TABLE 3A
Carbon Vapor Extraction System Operations Summary - 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)
04/01/23	*		82,020	437	--	--	--	--	--	2,988,722
04/02/23	*		82,045	437	--	--	--	--	--	2,988,726
04/03/23	*		82,069	437	--	--	--	--	--	2,988,729
04/04/23	*		82,093	437	--	--	--	--	--	2,988,733
04/05/23	*		82,117	437	--	--	--	--	--	2,988,736
04/06/23	Technician		82,142	604	4.6	125.0	--	132.2	0.0	2,988,741
04/07/23	*		82,166	604	--	--	--	--	--	2,988,746
04/08/23	*		82,190	604	--	--	--	--	--	2,988,751
04/09/23	*		82,214	604	--	--	--	--	--	2,988,755
04/10/23	*		82,238	604	--	--	--	--	--	2,988,760
04/11/23	*		82,262	604	--	--	--	--	--	2,988,765
04/12/23	*		82,286	604	--	--	--	--	--	2,988,770
04/13/23	*		82,310	604	--	--	--	--	--	2,988,775
04/14/23	Technician		82,334	575	4.6	118.0	--	171.2	0.0	2,988,779
04/15/23	*		82,358	575	--	--	--	--	--	2,988,784
04/16/23	*		82,382	575	--	--	--	--	--	2,988,788
04/17/23	*		82,406	575	--	--	--	--	--	2,988,793
04/18/23	*		82,430	575	--	--	--	--	--	2,988,797
04/19/23	Technician	1	82,454	591	4.8	122.0	16	263.0	0.0	2,988,802
04/20/23	*		82,478	591	--	--	--	--	--	2,988,807
04/21/23	*		82,502	591	--	--	--	--	--	2,988,811
04/22/23	*		82,526	591	--	--	--	--	--	2,988,816
04/23/23	*		82,550	591	--	--	--	--	--	2,988,821
04/24/23	*		82,574	591	--	--	--	--	--	2,988,825
04/25/23	*		82,598	591	--	--	--	--	--	2,988,830
04/26/23	*		82,622	591	--	--	--	--	--	2,988,835
04/27/23	Technician		82,646	590	4.8	120.0	--	235.0	0.0	2,988,839
04/28/23	*		82,669	590	--	--	--	--	--	2,988,844
04/29/23	*		82,693	590	--	--	--	--	--	2,988,849
04/30/23	*		82,717	590	--	--	--	--	--	2,988,853

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	April	Quarter 2 to Date	April 1996 to Date
Mass	138	138	2,988,853

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

Legend / Notes:

1 = Collected monthly influent, after GAC-1, after GAC-2, and Effluent samples for laboratory analysis.
 Monthly samples not collected for laboratory analysis due to system shut down 10/18/2022.
 Influent values from samples collected 9/20/22 used for mass removal calculations.
 * = Operational values interpolated from chart recorder data or previous monitoring event.
 -- = Not applicable or not measured
 Vapor extraction wells on line this month: HW-1, HW-9, HW-5, HW-7, Trunkline #2

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



TABLE 3B
Carbon Vapor Extraction System Operations Summary - 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)
05/01/23	*		82,741	590	--	--	--	--	--	2,988,862
05/02/23	*		82,765	590	--	--	--	--	--	2,988,865
05/03/23	*		82,789	590	--	--	--	--	--	2,988,867
05/04/23	Technician		82,813	553	4.7	102.0	--	173.0	0.0	2,988,869
05/05/23	*		82,837	553	--	--	--	--	--	2,988,871
05/06/23	*		82,861	553	--	--	--	--	--	2,988,873
05/07/23	*		82,885	553	--	--	--	--	--	2,988,876
05/08/23	*		82,909	553	--	--	--	--	--	2,988,878
05/09/23	*		82,933	553	--	--	--	--	--	2,988,880
05/10/23	*		82,957	553	--	--	--	--	--	2,988,882
05/11/23	Technician		82,981	574	4.7	120.0	--	209.3	0.0	2,988,884
05/12/23	*		83,006	574	--	--	--	--	--	2,988,886
05/13/23	*		83,031	574	--	--	--	--	--	2,988,889
05/14/23	*		83,055	574	--	--	--	--	--	2,988,891
05/15/23	*		83,080	574	--	--	--	--	--	2,988,893
05/16/23	*		83,104	574	--	--	--	--	--	2,988,896
05/17/23	Technician		83,129	413	4.6	128.0	--	176.5	0.0	2,988,897
05/18/23	*		83,153	413	--	--	--	--	--	2,988,899
05/19/23	*		83,176	413	--	--	--	--	--	2,988,900
05/20/23	*		83,200	413	--	--	--	--	--	2,988,902
05/21/23	*		83,224	413	--	--	--	--	--	2,988,904
05/22/23	*		83,247	413	--	--	--	--	--	2,988,905
05/23/23	*		83,271	413	--	--	--	--	--	2,988,907
05/24/23	*		83,294	413	--	--	--	--	--	2,988,908
05/25/23	Technician	1	83,318	590	4.3	118.0	6.9	194.0	0.0	2,988,910
05/26/23	*		83,342	590	--	--	--	--	--	2,988,913
05/27/23	*		83,365	590	--	--	--	--	--	2,988,915
05/28/23	*		83,389	590	--	--	--	--	--	2,988,917
05/29/23	*		83,413	590	--	--	--	--	--	2,988,919
05/30/23	*		83,436	590	--	--	--	--	--	2,988,922
05/31/23	*		83,460	590	--	--	--	--	--	2,988,924

Cumulative Mass TPHg Removed by the VES ^A (lb)			
Period	May	Quarter 2 to Date	April 1996 to Date
Mass	71	209	2,988,924

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

Legend / Notes:

1 = 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.

Vapor extraction wells on line this month: HW-1, HW-9, HW-5, HW-7, Trunkline #2

VES = Soil vapor extraction system

scfm = Standard cubic feet per minute

A = Reading from chart recorder.

B = Concentrations obtained with a calibrated organic vapor analyzer.

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

D = Hydrocarbon removal is calculated using analytical laboratory results for GRO (if not detected, half the detection limit is used).

in. Hg = Inches of mercury

°F = Degrees Fahrenheit

ppmv = Parts per million by volume

lb = Pounds



TABLE 3C
Carbon Vapor Extraction System Operations Summary - 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)
06/01/23	Technician		83,484	584	4.4	116.0	--	102.4	0.0	2,988,938
06/02/23	*		83,508	584	--	--	--	--	--	2,988,940
06/03/23	*		83,532	584	--	--	--	--	--	2,988,942
06/04/23	*		83,556	584	--	--	--	--	--	2,988,944
06/05/23	*		83,580	584	--	--	--	--	--	2,988,946
06/06/23	*		83,604	584	--	--	--	--	--	2,988,948
06/07/23	*		83,628	584	--	--	--	--	--	2,988,950
06/08/23	Technician	1, 2	83,652	597	4.6	120.0	6.2	160.1	0.0	2,988,952
06/09/23	*		83,676	597	--	--	--	--	--	2,988,954
06/10/23	*		83,701	597	--	--	--	--	--	2,988,956
06/11/23	*		83,726	597	--	--	--	--	--	2,988,958
06/12/23	*		83,750	597	--	--	--	--	--	2,988,960
06/13/23	*		83,775	597	--	--	--	--	--	2,988,962
06/14/23	Technician		83,800	597	--	--	--	--	--	2,988,964
06/15/23	Technician		83,818	589	4.4	118.0	--	--	0.0	2,988,966
06/16/23	*		83,839	589	--	--	--	--	--	2,988,968
06/17/23	*		83,860	589	--	--	--	--	--	2,988,969
06/18/23	*		83,881	589	--	--	--	--	--	2,988,971
06/19/23	*		83,902	589	--	--	--	--	--	2,988,973
06/20/23	*		83,923	589	--	--	--	--	--	2,988,975
06/21/23	Technician	3, 4	83,944	589	--	--	--	--	--	2,988,976
06/22/23	*		83,965	589	--	--	--	--	--	2,988,978
06/23/23	Technician		83,987	611	4.1	124.0	--	182.0	0.0	2,988,980
06/24/23	*		84,011	611	--	--	--	--	--	2,988,982
06/25/23	*		84,035	611	--	--	--	--	--	2,988,984
06/26/23	*		84,059	611	--	--	--	--	--	2,988,986
06/27/23	*		84,083	611	--	--	--	--	--	2,988,988
06/28/23	*		84,107	611	--	--	--	--	--	2,988,991
06/29/23	*		84,131	611	--	--	--	--	--	2,988,993
06/30/23	Technician		84,155	597	4.3	120.0	--	142.3	0.0	2,988,995

Cumulative Mass TPHg Removed by the VES ^A (lb)			
Period	June	Quarter 2 to Date	April 1996 to Date
Mass	71	279	2,988,995

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 HWs.
 - 3 = VES automatically shut down prior to technician arrival due to suspected power failure.
 - 4 = VES restarted.
 - = Not applicable or not measured
 - * = Operational values interpolated from chart recorder data or previous monitoring event.
- Vapor extraction wells on line this month: HW-1, HW-8, HW-9, HW-5, HW-7, Trunkline #2

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



TABLE 4
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		VOCs as Hexane ^A		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		Total Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
04/29/11		--	TO-3 & 8260B	--	--	--	17	60	0.021	0.067	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
05/27/11		--	TO-3 & 8260B	--	--	--	13	46	0.021	0.067	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
06/30/11		--	TO-3 & 8260B	--	--	--	11	39	0.018	0.057	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
07/27/11		--	TO-3 & 8260B	--	--	--	8.6	31	0.013	0.042	<0.0050	<0.019	0.012	0.052	--	--	--	--	0.013	0.056	<0.010	<0.036
08/26/11		--	TO-3 & 8260B	--	--	--	7.8	28	0.012	0.038	<0.0050	<0.019	0.020	0.087	--	--	--	--	0.0264	0.115	<0.010	<0.036
09/30/11		--	TO-3 & 8260B	--	--	--	6.9	25	0.012	0.038	<0.0050	<0.019	0.011	0.048	--	--	--	--	0.011	0.048	<0.010	<0.036
10/28/11		--	TO-3 & 8260B	--	--	--	5.4	19	0.011	0.035	<0.0050	<0.019	0.015	0.065	--	--	--	--	0.028	0.12	<0.010	<0.036
11/30/11		--	TO-3 & 8260B	--	--	--	8.5	30	0.012	0.038	<0.0050	<0.019	0.0067	0.029	--	--	--	--	0.010	0.043	<0.010	<0.036
12/28/11		--	TO-3 & 8260B	--	--	--	8.6	31	0.024	0.077	0.0075	0.028	0.0096	0.042	--	--	--	--	0.022	0.095	<0.010	<0.036
01/26/12		--	TO-3 & 8260B	--	--	--	3.7	13	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
02/24/12		--	TO-3 & 8260B	--	--	--	4.6	16	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
03/28/12		--	TO-3 & 8260B	--	--	--	4.1	15	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
04/27/12		--	TO-3 & 8260B	--	--	--	3.6	13	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
05/31/12		--	TO-3 & 8260B	--	--	--	6.5	23	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
06/28/12		--	TO-3 & 8260B	--	--	--	5.3	19	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
07/26/12		--	TO-3 & 8260B	4.1	--	--	4.1	15	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
08/31/12		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
09/27/12		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
10/30/12		--	TO-3 & 8260B	1.5	--	--	6.1	22	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
11/26/12		--	TO-3 & 8260B	4.2	--	--	4.2	15	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
12/19/12		--	TO-3 & 8260B	3.2	--	--	3.2	11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
01/31/13		--	TO-3 & 8260B	4.6	--	--	4.6	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02/27/13		--	TO-3 & 8260B	4.5	--	--	4.5	16	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
03/28/13		--	TO-3 & 8260B	6.7	--	--	6.7	24	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
04/22/13		--	TO-3 & 8260B	5.4	--	--	5.4	19	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
07/29/13		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
08/12/13		--	TO-3 & 8260B	--	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
10/30/13		--	TO-3 & 8260B	3.0	--	--	3.0	11	0.014	0.045	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
11/27/13		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	0.015	0.065	<0.010	<0.036
12/19/13		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	--	--	--	--	<0.015	<0.065	<0.010	<0.036
03/21/14		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	<0.0050	<0.022	<0.010	<0.043	<0.015	<0.065	<0.010	<0.036
04/23/14		VEW-32, VEW-33, VEW-34, VEW-35, VEW-36 VEW-37, HW-1, HW-3, HW-5, HW-7	TO-3 & 8260B	1.9	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	<0.0050	<0.022	<0.010	<0.043	<0.015	<0.065	<0.010	<0.036
05/16/14	1	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36 VEW-37, HW-1, HW-3, HW-5, HW-7	TO-3 & 8260B	1.1	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	<0.0050	<0.022	<0.010	<0.043	<0.015	<0.065	<0.010	<0.036



TABLE 4
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		VOCs as Hexane ^A		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)
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
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

TABLE 4
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		VOCs as Hexane ^A		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)
12/05/16	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	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
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



TABLE 4
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		VOCs as Hexane ^A		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)
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
07/20/20		HW-1, HW-9, HW-7, Trunkline #1, Trunkline #2	8015 & 8260B	572	98	400	79	400	0.19	0.6	0.16	0.59	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
08/24/20		HW-1, HW-9, HW-7, Trunkline #1, Trunkline #2	8015 & 8260B	797	93	380	69	380	0.17	0.53	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
09/14/20		HW-1, HW-9, HW-7, Trunkline #2	8015 & 8260B	397	44	180	33	180	<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
10/05/20		HW-1, HW-9, HW-7	8015 & 8260B	80	13	54	9.8	54	<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
11/05/20	26	HW-1, HW-9, HW-7, Trunkline #2	8015 & 8260B	392	34	140	25	140	<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
11/30/20		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	398	29	120	22	120	<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
02/24/21		HW-1, HW-9, HW-5, HW-7	8015 & 8260B	38	<4.9	<20	<4.9	<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
03/08/21		HW-1, HW-8, HW-9, HW-5, HW-7	8015 & 8260B	53	6.8	28	5.1	28	<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
04/19/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	238	22	90	16	90	<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
06/08/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	177	21	86	16	86	<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
06/21/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	247	18	73	13	73	<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
07/07/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	196	22	90	16	90	<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
08/09/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	203	17	69	13	69	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
09/20/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	155	16	64	12	64	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
10/18/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	152	14	56	10	56	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
11/10/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	191	29	120	21	120	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
12/06/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	315	46	190	35	190	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
01/18/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	212	32	130	25	130	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
02/09/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	151	27	110	19	110	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
03/09/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	327	29	120	22	120	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
04/20/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	306	34	140	25	140	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
05/10/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	287	37	150	27	150	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
06/16/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	306	23	95	17	95	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
07/12/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	226	24	100	18	100	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
08/08/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	216	21	87	16	87	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
09/20/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	229	27	110	20	110	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0

TABLE 4
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		VOCs as Hexane ^A		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)
11/10/22	27	HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	157	18	74	13	74	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
12/14/22	28	HW-1, HW-9, HW-5, Trunkline #2	8015 & 8260B	48	6.1	25	5.5	25	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
01/31/23	29	HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	392	27	110	25	110	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
02/21/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	350	18	73	13	73	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
03/13/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	201	14	58	11	58	0.09	0.28	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
04/19/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	263	22	88	16	88	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
05/25/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	194	11	43	6.9	43	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
06/08/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	160	9.3	38	6.2	38	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0

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

A = Laboratory reporting Gasoline Range Organics (GRO) as Hexane prior to 11-05-20.

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.

26 = Laboratory reporting Gasoline Range Organics (GRO) as Hexane prior to 11-05-20.

27 = No sample collected for analysis during October 2022 due to system operation status.

28 = HW-7 closed 12/06/22 in advance of horizontal drilling activities.

29 = HW-7 opened 1/20/23 following drilling activities.

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)
04/01/23	*		27,271	306	--	--	--	--	--	364,423
04/02/23	*		27,295	306	--	--	--	--	--	364,437
04/03/23	*		27,319	306	--	--	--	--	--	364,451
04/04/23	*		27,343	306	--	--	--	--	--	364,465
04/05/23	*		27,367	306	--	--	--	--	--	364,479
04/06/23	Technician		27,391	306	--	--	--	--	--	364,493
04/07/23	Technician	1	27,391	331	52	748	--	--	--	364,493
04/08/23	Offline		27,391	0	--	--	--	--	--	364,493
04/09/23	Offline		27,391	0	--	--	--	--	--	364,493
04/10/23	Offline		27,391	0	--	--	--	--	--	364,493
04/11/23	Offline		27,391	0	--	--	--	--	--	364,493
04/12/23	Offline		27,391	0	--	--	--	--	--	364,493
04/13/23	Offline		27,391	0	--	--	--	--	--	364,493
04/14/23	Offline		27,391	0	--	--	--	--	--	364,493
04/15/23	Offline		27,391	0	--	--	--	--	--	364,493
04/16/23	Offline		27,391	0	--	--	--	--	--	364,493
04/17/23	Offline		27,391	0	--	--	--	--	--	364,493
04/18/23	Offline		27,391	0	--	--	--	--	--	364,493
04/19/23	Technician	2, 3	27,396	692	80	748	94	160	7	364,500
04/20/23	*		27,420	692	--	--	--	--	--	364,531
04/21/23	*		27,444	692	--	--	--	--	--	364,563
04/22/23	*		27,467	692	--	--	--	--	--	364,594
04/23/23	*		27,491	692	--	--	--	--	--	364,625
04/24/23	*		27,515	692	--	--	--	--	--	364,657
04/25/23	*		27,539	692	--	--	--	--	--	364,688
04/26/23	*		27,562	692	--	--	--	--	--	364,720
04/27/23	Technician		27,586	647	67	768	--	183	5	364,749
04/28/23	*		27,610	647	--	--	--	--	--	364,779
04/29/23	*		27,634	647	--	--	--	--	--	364,808
04/30/23	*		27,658	647	--	--	--	--	--	364,838

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	April	Quarter 2 to Date	January 2018 to Date
Mass	443.0	443.0	372,679.0

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

Legend / Notes:

1 = VES manually shut down pending blower motor maintenance.
 2 = VES restarted.
 3 = Collected monthly influent and effluent samples for laboratory analysis.
 System operating under SCAQMD Permit #G52288
Vapor extraction wells on line this month (grouped by location):
 Central Area - (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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)

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 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)
05/01/23	*		27,682	647	--	--	--	--	--	365,047
05/02/23	*		27,706	647	--	--	--	--	--	365,100
05/03/23	*		27,730	647	--	--	--	--	--	365,152
05/04/23	Technician		27,754	615	67	764	--	193	4	365,202
05/05/23	*		27,778	615	--	--	--	--	--	365,252
05/06/23	*		27,802	615	--	--	--	--	--	365,301
05/07/23	*		27,826	615	--	--	--	--	--	365,351
05/08/23	*		27,850	615	--	--	--	--	--	365,401
05/09/23	*		27,874	615	--	--	--	--	--	365,451
05/10/23	*		27,898	615	--	--	--	--	--	365,500
05/11/23	Technician		27,922	617	70	768	--	154	5	365,550
05/12/23	*		27,947	617	--	--	--	--	--	365,602
05/13/23	*		27,971	617	--	--	--	--	--	365,653
05/14/23	*		27,996	617	--	--	--	--	--	365,704
05/15/23	*		28,021	617	--	--	--	--	--	365,756
05/16/23	*		28,045	617	--	--	--	--	--	365,807
05/17/23	Technician		28,070	608	70	763	--	169	13	365,857
05/18/23	*		28,094	608	--	--	--	--	--	365,906
05/19/23	*		28,117	608	--	--	--	--	--	365,954
05/20/23	*		28,141	608	--	--	--	--	--	366,002
05/21/23	*		28,164	608	--	--	--	--	--	366,050
05/22/23	*		28,188	608	--	--	--	--	--	366,098
05/23/23	*		28,211	608	--	--	--	--	--	366,147
05/24/23	*		28,235	608	--	--	--	--	--	366,195
05/25/23	Technician	1	28,258	586	72	764	150	157	5	366,241
05/26/23	*		28,282	586	--	--	--	--	--	366,288
05/27/23	*		28,306	586	--	--	--	--	--	366,335
05/28/23	*		28,330	586	--	--	--	--	--	366,383
05/29/23	*		28,353	586	--	--	--	--	--	366,430
05/30/23	*		28,377	586	--	--	--	--	--	366,477
05/31/23	*		28,401	586	--	--	--	--	--	366,524

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	May	Quarter 2 to Date	January 2018 to Date
Mass	1,685.9	2,128.9	374,364.9

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

Legend / Notes:

1 = 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 - (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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)

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 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)
06/01/23	Technician		28,425	545	73	767	--	150	6	366,752
06/02/23	*		28,449	545	--	--	--	--	--	366,785
06/03/23	*		28,473	545	--	--	--	--	--	366,818
06/04/23	*		28,497	545	--	--	--	--	--	366,850
06/05/23	*		28,520	545	--	--	--	--	--	366,883
06/06/23	*		28,544	545	--	--	--	--	--	366,916
06/07/23	*		28,568	545	--	--	--	--	--	366,948
06/08/23	Technician	1, 2	28,592	564	72	766	110	130	26	366,982
06/09/23	*		28,606	564	--	--	--	--	--	367,002
06/10/23	*		28,620	564	--	--	--	--	--	367,022
06/11/23	*		28,634	564	--	--	--	--	--	367,041
06/12/23	*		28,648	564	--	--	--	--	--	367,061
06/13/23	*		28,662	564	--	--	--	--	--	367,081
06/14/23	Technician		28,676	564	--	--	--	--	--	367,101
06/15/23	Technician		28,760	596	32	763	--	102	4	367,227
06/16/23	*		28,781	596	--	--	--	--	--	367,257
06/17/23	*		28,801	596	--	--	--	--	--	367,288
06/18/23	*		28,822	596	--	--	--	--	--	367,319
06/19/23	*		28,843	596	--	--	--	--	--	367,350
06/20/23	*		28,863	596	--	--	--	--	--	367,381
06/21/23	Technician		28,884	596	--	--	--	--	--	367,412
06/22/23	*		28,906	596	--	--	--	--	--	367,445
06/23/23	Technician	3	28,928	712	69	769	--	120	2	367,484
06/24/23	*		28,952	712	--	--	--	--	--	367,527
06/25/23	*		28,976	712	--	--	--	--	--	367,570
06/26/23	*		29,000	712	--	--	--	--	--	367,613
06/27/23	*		29,024	712	--	--	--	--	--	367,656
06/28/23	*		29,048	712	--	--	--	--	--	367,699
06/29/23	*		29,072	712	--	--	--	--	--	367,742
06/30/23	Technician		29,096	684	72	771	--	156	3	367,783

Cumulative Mass TPHg Removed by the VES ^A (lb)			
Period	June	Quarter 2 to Date	January 2018 to Date
Mass	1,258.8	3,387.8	375,623.8

Legend / Notes:

1 = Collected monthly influent and effluent samples for laboratory analysis.
 2 = Collected Trunkline samples for laboratory analysis.
 3 = Opened new Trunklines 6 & 7
 System operating under SCAQMD Permit #G52288

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

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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)

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
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		VOCs as Hexane ^A		Benzene		Ethylbenzene		MTBE		Toluene		o-Xylene		m,p-Xylenes		Total Xylenes	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
01/11/18	1,2,3	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, RW-9, RW-13, RW-18 and RW-26	8015M & 8260M	1,942	370	1500	380	1,500	<0.16	<0.50	<0.12	<0.50	<0.55	<2.0	<0.13	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5
03/14/18	2,4,5,6	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	8015M & 8260M	2,193	370	1500	380	1,500	0.41	1.3	<0.12	<0.50	<0.55	<2.0	<0.13	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5
04/02/18	2	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	8015M & 8260M	1,370	1,700	7,100	1,800	7,100	4.1	13	0.28	1.2	<0.55	<2.0	<0.13	<0.50	<0.12	<0.50	0.76	3.3	<0.35	<1.5
05/02/18	2	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	8015M & 8260M	1,380	780	3,200	820	3,200	3.0	9.6	<0.12	<0.50	<0.55	<2.0	<0.13	<0.50	<0.12	<0.50	0.28	1.2	<0.35	<1.5
06/06/18	2,6,7	HW-1, HW-5, HW-7, VEW-39, RW-1, -4, -9, -10, -11, -13, -14 and -18	8015M & 8260M	1,531	1,000	4,100	990	4,100	4.1	13	0.17	0.72	<0.55	<2.0	<0.13	<0.50	<0.12	<0.50	0.53	2.3	<0.35	<1.5
07/02/18	2,6	RW-1, -4, -5, -9, -10, -11, -13, -18, -22, -29, -23, -24, -26, -27, -28, -30, -31, -32, -33, -36, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, -50, VEW-40	8015M & 8260M	890	560	2,300	560	2,300	2.2	7.1	<0.23	<1.0	<1.1	<4.0	<0.27	<1.0	<0.23	<1.0	0.55	2.4	<0.35	<1.5
08/06/18	2,6	RW-1, -4, -5, -9, -10, -11, -13, -18, -22, -29, -23, -24, -26, -27, -28, -30, -31, -32, -33, -36, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, -50, VEW-40	8015M & 8260M	876	710	2,900	710	2,900	0.88	2.8	0.23	1.0	<0.55	<2.0	0.58	2.2	0.25	1.1	0.92	4.0	<0.35	<1.5
09/13/18	2,6	RW-1, -4, -5, -9, -10, -11, -13, -18, -22, -29, -23, -24, -26, -27, -28, -30, -31, -32, -33, -36, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, -50, VEW-40	8015M & 8260M	935	930	3,800	930	3,800	1.9	6.0	0.41	1.8	<0.28	<1.0	0.34	1.3	0.18	0.77	0.94	4.1	<0.35	<1.5
10/29/18	2,6	RW-1, -4, -5, -9, -10, -11, -14, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -36, -37, -38, -40, -41, -42, -44, -45, -47, -48, -49, -50, VEW-40	8015M & 8260M	791	440	1,800	390	1,800	0.97	3.1	<0.12	<0.5	<0.55	<2.0	<0.13	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5
11/14/18	2,6	RW-1, -4, -5, -9, -10, -11, -14, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -36, -37, -38, -40, -41, -42, -44, -45, -47, -48, -49, -50, VEW-40	8015M & 8260M	794	640	2,600	560	2,600	1.6	5.1	0.18	0.77	<0.55	<2.0	<0.13	<0.5	<0.12	<0.5	0.41	1.8	<0.35	<1.5
12/17/18	2,6,8	RW-1, -4, -5, -9, -10, -11, -14, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -36, -37, -38, -40, -41, -42, -44, -45, -47, -48, -49, -50, VEW-40	8015M & 8260M	968	220	900	200	900	0.47	1.5	<0.12	<0.5	<0.55	<2.0	<0.13	<0.5	<0.12	<0.5	<0.23	<1.0	<0.38	<1.8
03/19/19	2,6,9	RW-1, -4, -5, -9, -10, -11, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, and -50; VEW-40; TFR-5, -7, -9, -10, -11, -13, -16, -19, -21, -24, -26, -28, -30, -35, -36, and -37	8015M & 8260M	766	270	1,100	240	1,100	0.72	2.3	<0.12	<0.50	<0.55	<2.0	<0.13	<0.50	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5
04/03/19	2,6,9	RW-1, -4, -5, -9, -10, -11, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, and -50; VEW-40; TFR-5, -7, -9, -10, -11, -13, -16, -19, -21, -24, -26, -28, -30, -35, -36, and -37	8015M & 8260M	1,984	210	860	190	860	0.28	0.91	<0.12	<0.50	<0.55	<2.0	<0.13	<0.50	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5
04/22/19	2,6,9	RW-1, -4, -5, -9, -10, -11, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, and -50; VEW-40; TFR-5, -7, -9, -10, -11, -13, -16, -19, -21, -24, -26, -28, -30, -35, -36, and -37	8015M & 8260M	2,410	660	2,700	600	2,700	2.9	9.2	0.28	1.2	<0.55	<2.0	<0.13	<0.50	0.13	0.58	0.41	1.8	0.54	2.38
05/06/19	2,6,9	RW-1, -4, -5, -9, -10, -11, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, and -50; VEW-40; TFR-5, -7, -9, -10, -11, -13, -16, -19, -21, -24, -26, -28, -30, -35, -36, and -37	8015M & 8260M	1,860	710	2,900	630	2,900	3.8	12	0.46	2.0	<0.55	<2.0	<0.13	<0.50	<0.12	<0.50	0.64	2.8	0.64	2.8
06/06/19	2,6,9	RW-1, -4, -5, -9, -10, -11, -18, -22, -23, -24, -26, -27, -28, -29, -30, -31, -32, -33, -35, -37, -40, -41, -42, -43, -44, -45, -47, -48, -49, and -50; VEW-40; TFR-5, -7, -9, -10, -11, -12, -13, -14, -15, -16, -18, -19, -21, -22, -24, -26, -28, -29, -30, -32, -33, TF-17, TFR-18, TFR-19, TFR-22, TFR-25, TF-18, RTF-18-E, RTF-18-NW	8015M & 8260M	5,375	950	3,900	860	3,900	5.3	17	0.25	1.1	<0.55	<2.0	0.21	0.8	<0.12	<0.5	0.46	2.0	0.46	2.0
07/10/19	2,6,9	Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15, TFR-16), (TRF-5, TFR-7, TFR-9, TFR-10, TFR-12); Eastern Area - (RW-1, RW-11, RW-18, RW-13, RW-4, RW-5, RW-9, RW-10, TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Southern Area - (RW-23, RW-30, RW-31, RW-32, VEW-40, RW-26, RW-28, RW-24, RW-27, RW-33, RW-43, RW-22, RW-29, RW-45, RW-35, RW-40, RW-44, RW-36, RW-37, RW-41, RW-42, RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	1,962	2,100	8,500	1,900	8,500	5.3	17	0.37	1.6	<0.55	<2.0	0.58	2.2	0.25	1.1	0.78	3.4	1.03	4.5



TABLE 6
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		VOCs as Hexane ^A		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)
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	3,400	14,000	3,000	14,000	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
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



TABLE 6
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		VOCs as Hexane ^A		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)
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
7/20/2020		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), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); 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).	8015 & 8260B	630	950	3,900	--	3,900	1.10	3.50	0.21	0.91	<0.55	<2.0	0.42	1.60	0.48	2.10	0.71	3.10	1.19	5.2
9/14/2020		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), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); 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).	8015 & 8260B	748	1,900	7,700	--	7,700	3.40	11.00	0.35	1.50	<0.55	<2.0	0.40	1.50	0.35	1.50	0.85	3.70	1.2	5.2
10/5/2020		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-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); 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).	8015 & 8260B	582	1,300	5,300	--	5,300	1.20	3.90	0.22	0.96	<0.55	<2.0	0.58	2.20	0.25	1.10	0.62	2.70	0.87	3.8
11/4/2020		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-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-29), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49).	8015 & 8260B	554	1,900	7,900	1,400	7,900	1.20	3.90	0.32	1.40	<0.55	<2.0	0.85	3.20	0.35	1.50	0.81	3.50	1.16	5.0
12/7/2020		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-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-29), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49).	8015 & 8260B	512	1,300	5,500	1,000	5,500	0.94	3.00	0.35	1.50	<0.55	<2.0	0.74	2.80	0.37	1.60	0.85	3.70	1.22	5.3



TABLE 6
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		VOCs as Hexane ^A		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)
1/28/2021		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-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-29), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49).	8015 & 8260B	782	1,400	5,600	1,000	5,600	1.80	5.80	0.41	1.80	<0.55	<2.0	0.40	1.50	0.32	1.40	0.99	4.30	1.31	5.7
2/24/2021		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-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-29), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49).	8015 & 8260B	826	980	4,000	740	4,000	1.40	4.60	0.41	1.80	<0.55	<2.0	0.42	1.60	0.25	1.10	0.92	4.00	1.17	5.1
3/8/2021		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-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-21, RW-23), (RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-24, RW-25, RW-27, RW-33, RW-43), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	696	540	2,200	400	2,200	1.80	5.60	0.46	2.00	<0.55	<2.0	0.58	2.20	0.28	1.20	0.94	4.10	1.22	5.3
4/19/2021		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-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-21, RW-23), (RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-24, RW-25, RW-27, RW-33, RW-43), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	504	420	1,700	310	1,700	1.40	4.40	0.28	1.20	<0.55	<2.0	0.26	0.97	0.20	0.86	0.60	2.60	0.8	3.46
6/8/2021		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	486	390	1,600	280	1,600	1.10	3.60	0.46	2.00	<0.55	<2.0	0.53	2.00	0.35	1.50	1.00	4.40	1.35	5.9
6/21/2021		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	538	460	1,900	340	1,900	1.10	3.40	0.37	1.60	<0.55	<2.0	0.48	1.80	0.30	1.30	0.88	3.80	1.18	5.1
7/7/2021		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	490	460	1,900	340	1,900	0.94	3.00	0.44	1.90	<0.55	<2.0	0.53	2.00	0.37	1.60	1.10	4.70	1.47	6.3
8/9/2021		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	406	370	1,500	290	1,500	1.20	3.90	0.46	2.00	<0.28	<1.0	0.58	2.20	0.37	1.60	1.00	4.50	1.37	6.1



TABLE 6
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		VOCs as Hexane ^A		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)
9/20/2021		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	412	320	1,300	240	1,300	0.44	1.40	0.32	1.40	<0.28	<1.0	0.37	1.40	0.30	1.30	0.83	3.60	1.13	4.9
10/18/2021		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	436	440	1,800	330	1,800	0.85	2.70	0.37	1.60	<0.28	<1.0	0.45	1.70	0.37	1.60	1.00	4.50	1.37	6.1
11/10/2021		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	446	610	2,500	450	2,500	1.10	3.40	0.28	1.20	<0.28	<1.0	0.32	1.20	0.23	1.00	0.69	3.00	0.92	4.0
12/6/2021		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	458	640	2,600	470	2,600	0.63	2.00	0.35	1.50	<0.28	<1.0	0.42	1.60	0.30	1.30	0.99	4.30	1.29	5.6
1/18/2022		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	498	610	2,500	460	2,500	1.10	3.60	0.37	1.60	<0.28	<1.0	0.45	1.70	0.25	1.10	0.92	4.00	1.17	5.1
2/9/2022		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	436	540	2,200	390	2,200	0.75	2.40	0.22	0.97	<0.28	<1.0	0.32	1.20	0.21	0.90	0.69	3.00	0.9	3.9
3/9/2022		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	402	540	2,200	400	2,200	0.81	2.60	0.25	1.10	<0.28	<1.0	0.42	1.60	0.30	1.30	0.83	3.60	1.13	4.9

TABLE 6
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		VOCs as Hexane ^A		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)
4/20/2022		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	310	370	1,500	280	1,500	0.41	1.30	0.21	0.93	<0.28	<1.0	0.24	0.89	0.25	1.10	0.62	2.70	0.87	3.8
5/10/2022		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	356	390	1,600	290	1,600	0.53	1.70	0.25	1.10	<0.28	<1.0	0.32	1.20	0.28	1.20	0.81	3.50	1.09	4.7
6/16/2022		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	290	370	1,500	270	1,500	0.41	1.30	0.17	0.72	<0.28	<1.0	0.29	1.10	0.21	0.90	0.58	2.50	0.79	3.4
7/12/2022		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	356	540	2,200	390	2,200	0.56	1.80	0.30	1.30	<0.28	<1.0	0.37	1.40	0.35	1.50	1.10	4.60	1.45	6.1
8/8/2022		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	292	290	1,200	220	1,200	0.41	1.30	0.18	0.76	<0.28	<1.0	0.18	0.69	0.16	0.70	0.53	2.30	0.69	3.0
9/20/2022		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	130	370	1,500	270	1,500	0.56	1.80	0.18	0.80	<0.28	<1.0	0.20	0.74	0.20	0.87	0.55	2.40	0.75	3.27
10/26/2022		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	320	370	1,500	270	1,500	0.41	1.30	0.14	0.61	<0.28	<1.0	0.09	0.32	0.13	0.58	0.37	1.60	0.5	2.18
11/10/2022		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	234	290	1,200	210	1,200	0.41	1.30	0.12	0.52	<0.28	<1.0	0.10	0.37	0.12	0.54	0.37	1.60	0.49	2.14



TABLE 6
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		VOCs as Hexane ^A		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)
12/14/2022		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	294	290	1,200	270	1,200	0.28	0.89	0.15	0.66	<0.28	<1.0	0.07	0.28	0.13	0.56	0.35	1.50	0.48	2.06
2/21/2023		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	282	290	1,200	230	1,200	0.34	1.10	0.23	1.00	<0.28	<1.0	<0.066	<0.25	0.09	0.40	0.44	1.90	0.53	2.3
3/13/2023		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	247	220	910	170	910	0.23	0.72	0.11	0.47	<0.28	<1.0	<0.066	<0.25	<0.058	<0.25	0.23	1.00	0.26	1.13
4/19/2023		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	160	120	510	94	510	<0.078	<0.25	<0.058	<0.25	<0.28	<1.0	<0.066	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75
5/25/2023		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	157	220	900	150	900	0.14	0.46	0.088	0.38	<0.28	<1.0	0.080	0.30	0.078	0.34	0.23	1.00	0.26	1.13
6/8/2023		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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (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)	8015 & 8260B	130	160	670	110	670	<0.078	<0.25	0.060	0.26	<0.28	<1.0	<0.066	<0.25	0.069	0.30	0.18	0.76	0.21	0.89

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.

A = Laboratory reporting Gasoline Range Organics (GRO) as Hexane prior to 11-05-20.

- 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 2023
 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 ^A (gallons)	LNAPL Removed with Socks ^A (pounds)	LNAPL Removed with Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^{A, B} (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^{A, B} (pounds)
<i>End of First Quarter 2023:</i>							149.4	1,022.6
05/04/23	--	32.49	--	0.0	0.0	0.0	149.4	1,022.6
05/25/23	--	35.08	--	0.0	0.0	0.0	149.4	1,022.6
06/05/23	--	35.03	--	0.0	2.4	0.3	149.8	1,025.0
06/12/23	--	34.71	--	0.0	2.3	0.3	150.1	1,027.2
06/21/23	--	34.60	--	0.0	0.0	0.0	150.1	1,027.2
06/30/23	--	34.39	--	0.0	0.0	0.0	150.1	1,027.2
Cumulative for the Reporting Period ^A:				0.0	4.6	0.7	0.7	4.6
Cumulative Beginning January 2014 ^{A, B}:				112.0	260.8	38.1	150.1	1,027.2

Legend / Notes:

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

A = Difference between additive sum and displayed cumulative value is a result of rounding and/or significant figures.

B = 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 2023
 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 ^A (gallons)	LNAPL Removed with Socks ^A (pounds)	LNAPL Removed with Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^{A, B} (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^{A, B} (pounds)
<i>End of First Quarter 2023:</i>							101.2	692.9
05/04/23	--	34.63	--	0.0	1.7	0.2	101.5	694.5
05/25/23	--	34.23	--	0.0	0.0	0.0	101.5	694.5
06/05/23	--	34.00	--	0.0	0.0	0.0	101.5	694.5
06/12/23	--	33.87	--	0.0	0.0	0.0	101.5	694.5
06/21/23	--	33.50	--	0.0	0.0	0.0	101.5	694.5
06/30/23	--	33.66	--	0.0	0.0	0.0	101.5	694.5
Cumulative for the Reporting Period ^A:				0.0	1.7	0.2	0.2	1.6
Cumulative Beginning October 2016 ^{A, B}:				33.5	465.3	68.0	101.5	694.5

Legend / Notes:

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

A = Difference between additive sum and displayed cumulative value is a result of rounding and/or significant figures.

B = 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 2023
 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 Product Removal Via Bailing, Skimming, or Absorbant Socks During 2nd Quarter 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning December 2014 ^A:				8.0	135.6	19.8	27.8	190.4

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 2023
 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 Product Removal Via Bailing, Skimming, or Absorbant Socks During 2nd Quarter 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning June 2015 ^A:				6.75	199.1	29.08	35.8	245.2

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 2023
 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 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2018 ^{A,B}:				150.0	0.0	0.0	150.0	1,026.5

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 2023
 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 2023								
Cumulative for the Reporting Period ^B:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning March 2017 ^A:				101.1	75.8	11.1	112.2	767.6

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 2023
 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 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning April 2018 ^{A,B}:				284.3	0.0	0.0	284.3	1,945.7

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 2023
 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 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning April 2018 ^{A,B}:				2.1	0.0	0.0	2.1	14.2

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 2023
 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 2023								
Cumulative for the Reporting Period ^B:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2016 ^A:				187.1	52.5	7.7	194.8	1,332.9

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 2023
 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 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2018 ^{A,B}:				23.0	0.0	0.0	23.0	157.4

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 2023
 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 2023								

Cumulative for the Reporting Period:	0.0	0.0	0.0	0.0	0.0
Cumulative Beginning March 2017 - June 2019 ^B:	323.0	0.0	0.0	323.0	2,210.4
Cumulative Beginning October 2016 ^A:	333.3	35.8	5.2	338.5	2,316.3

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 2023
 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 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2018 ^{A,B}:				360.0	0.0	0.0	360.0	2,463.6

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 2023
 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 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2018 ^{A,B}:				18.1	0.0	0.0	18.1	124.2

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 2023
 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)
<i>End of First Quarter 2023:</i>							370.8	2,537.2
04/24/23	33.27	36.82	3.55	2.0	--	--	372.8	2,537.2
05/04/23	--	33.67	--	0.0	--	--	372.8	2,537.2
05/11/23	33.88	34.12	0.24	0.0	2.7	0.4	373.2	2,553.6
05/25/23	33.49	33.70	0.21	0.0	2.1	0.3	373.5	2,555.6
06/05/23	--	32.85	--	0.0	2.9	0.4	373.9	2,558.5
06/12/23	--	33.19	--	0.0	0.0	0.0	373.9	2,558.5
06/21/23	32.60	32.70	0.10	0.0	2.9	0.4	374.3	2,561.4
06/30/23	--	33.03	--	0.0	1.4	0.2	374.5	2,562.7
Cumulative for the Reporting Period:				2.0	11.8	1.7	3.7	25.5
Cumulative Beginning October 2018 ^{A,B}:				372.8	11.8	1.7	374.5	2,562.7

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 2023
 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)
<i>End of First Quarter 2023:</i>							115.5	790.1
05/04/23	--	33.34	0.00	0.0	2.8	0.4	115.9	792.8
05/11/23	--	33.44	0.00	0.0	2.0	0.3	116.1	794.8
05/25/23	33.13	33.30	0.17	0.0	2.4	0.3	116.5	797.2
06/05/23	32.95	33.00	0.05	0.0	3.9	0.6	117.1	801.1
06/12/23	32.75	32.80	0.05	0.0	3.5	0.5	117.6	804.6
06/21/23	--	32.05	0.00	0.0	1.4	0.2	117.8	805.9
06/30/23	--	32.59	0.00	0.0	0.0	0.0	117.8	805.9
Cumulative for the Reporting Period:				0.0	15.9	2.3	2.3	15.9
Cumulative Beginning October 2018 ^{A,B}:				110.1	52.7	7.7	117.8	805.9

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 2023
 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 ^A (gallons)	LNAPL Removed with Socks ^A (pounds)	LNAPL Removed with Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^{A,B} (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^{A,B} (pounds)
<i>End of First Quarter 2023:</i>							984.4	6,736.6
04/24/23	38.15	38.27	0.12	0.0	--	--	984.4	6,736.6
05/04/23	--	33.05	0.00	0.0	2.6	0.4	984.8	6,739.2
05/25/23	--	33.40	0.00	0.0	1.9	0.3	985.1	6,741.1
06/05/23	33.34	33.37	0.03	0.0	3.9	0.6	985.6	6,745.0
06/12/23	33.22	33.25	0.03	0.0	3.4	0.5	986.1	6,748.3
06/21/23	--	32.68	0.00	0.0	3.1	0.5	986.6	6,751.5
06/30/23	--	32.86	0.00	0.0	1.4	0.2	986.8	6,752.8
Cumulative for the Reporting Period^A:				0.0	16.2	2.4	2.4	16.2
Cumulative Beginning April 2018^{A,B,C,D}:				981.9	33.5	4.9	986.8	6,752.8

Legend / Notes:

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

A = Difference between additive sum and displayed cumulative value is a result of rounding and/or significant figures.

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

C = 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).

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



TABLE 7Q
Summary of LNAPL Removal in Well TFR-33 - Second Quarter 2023
 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 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2018 ^{A,B}:				123.0	0.0	0.0	123.0	841.7

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 2023
 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)
<i>End of First Quarter 2023:</i>							684.5	4,684.1
05/04/23	--	32.95	0.00	0.0	3.0	0.4	684.9	4,687.1
05/25/23	--	32.74	0.00	0.0	1.5	0.2	685.1	4,688.6
06/05/23	--	32.74	0.00	0.0	0.0	0.0	685.1	4,688.6
06/12/23	--	32.68	0.00	0.0	1.5	0.2	685.4	4,690.1
06/21/23	--	32.23	0.00	0.0	0.0	0.0	685.4	4,690.1
06/30/23	--	32.42	0.00	0.0	0.0	0.0	685.4	4,690.1

Cumulative for the Reporting Period:	0.0	6.0	0.9	0.9	6.0
Cumulative Beginning May 2016 - July 2016 ^A:	47.5	0.0	0.0	47.5	325.1
Cumulative Beginning August 2016 - September 2019 ^B:	593.4	0.0	0.0	593.4	4,061.5
Cumulative Beginning May 2016 ^A:	679.1	43.1	6.3	685.4	4,690.1

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 2023
 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 2023								

Cumulative for the Reporting Period:	0.0	0.0	0.0	0.0	0.0	0.0
Cumulative Beginning May 2016 - July 2016 ^A:	76.5	0.0	0.0	76.5	523.5	
Cumulative Beginning August 2016 - June 2019 ^B:	2,961.0	0.0	0.0	2,961.0	20,262.6	
Cumulative Beginning May 2016 ^A:	3,039.6	0.0	0.0	3,039.6	20,800.5	

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 2023
 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 2023								

Cumulative for the Reporting Period:	0.0	0.0	0.0	0.0	0.0	0.0
Cumulative Beginning April 2016 - July 2016 ^A:	47.5	0.0	0.0	47.5	325.1	0.0
Cumulative Beginning August 2016 - June 2019 ^B:	497.5	0.0	0.0	497.5	3,404.5	0.0
Cumulative Beginning April 2016 ^A:	545.0	0.0	0.0	545.0	3,729.6	0.0

Legend / Notes:

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

A = Cumulative LNAPL removed since April 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 2023
 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 2023								

Cumulative for the Reporting Period:	0.0	0.0	0.0	0.0	0.0	0.0
Cumulative Beginning January 2014 - July 2016 ^A:	266.1	307.3	44.9	311.0	2,128.1	
Cumulative Beginning August 2016 - June 2019 ^B:	2,003.0	0.0	0.0	2,003.0	13,707.0	
Cumulative Beginning January 2014 ^A:	2,271.2	307.3	44.9	2,316.1	15,849.3	

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 2023
 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 2023								

Cumulative for the Reporting Period:	0.0	0.0	0.0	0.0	0.0	0.0
Cumulative Beginning April 2016 - July 2016 ^A:	54.5	0.0	0.0	0.0	54.5	373.0
Cumulative Beginning August 2016 - June 2019 ^B:	62.5	0.0	0.0	0.0	62.5	427.7
Cumulative Beginning April 2016 ^A:	117.0	0.0	0.0	0.0	117.0	800.7

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 2023
 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 2023								

Cumulative for the Reporting Period:	0.0	0.0	0.0	0.0	0.0	0.0
Cumulative Beginning April 2016 - July 2016 ^A:	38.8	0.0	0.0	0.0	38.8	265.2
Cumulative Beginning August 2016 - June 2019 ^B:	371.0	0.0	0.0	0.0	371.0	2,538.8
Cumulative Beginning April 2016 ^A:	409.8	0.0	0.0	0.0	409.8	2,804.0

Legend / Notes:

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

A = Cumulative LNAPL removed since April 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
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

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

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
10/19/11		--	--	--	--	8.2	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<2.0	<2.0	<2.0
01/20/12		--	--	--	--	14	<0.50	2.8	7.8	1.2	16	1.3	0.42	<2.0	<2.0
02/03/12		--	--	120	340	--	--	--	--	--	--	--	--	--	--
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

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

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
12/17/14	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
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

TABLE 8
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)
01/09/17		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	150	<40	4.4	<0.30	<0.20	<0.40	<0.30	<7.0	0.58 J	<0.50	<0.40	<0.30
02/06/17	6	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	110	<40	3.5	<0.30	0.41 J	0.60 J	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
03/15/17	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	68 J	<40	4.3	<0.30	<0.20	<0.40	<0.30	<7.0	0.60 J	<0.50	<0.40	<0.30
04/05/17	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	74 J	<40	8.4	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
05/03/17		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	72 J	<40	4.3	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
06/05/17		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	62 J	<40	5.0	<0.30	<0.20	0.50 J	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
07/19/17	5	GW-2, GW-15, GW-16	8015M & 8260B	75 J	<40	3.4	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
08/02/17		GW-2, GW-15, GW-16	8015M & 8260B	80 J	<40	4.0	<0.30	<0.20	<0.40	<0.30	<7.0	0.88 J	<0.50	<0.40	<0.30
09/13/17		GW-2, GW-15, GW-16	8015M & 8260B	84 J	<40	<0.20	<0.30	<0.20	<0.40	<0.30	<7.0	0.69 J	<0.50	<0.40	<0.30
10/16/17		GW-2, GW-15, GW-16	8015M & 8260B	64 J	<40	3.7	<0.30	<0.20	<0.40	<0.30	<7.0	0.54 J	<0.50	<0.40	<0.30
11/13/17		GW-2, GW-15, GW-16	8015M & 8260B	78 J	<40	4.5	<0.30	<0.20	<0.40	<0.30	<7.0	0.54 J	<0.50	<0.40	<0.30
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

TABLE 8
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)
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	8015B	790	--	--	--	--	--	--	--	--	--	--	--
03/11/20	10,11	GW-15, GW-16	8015B & EPA 624	370	--	<5.0	<5.0	<5.0	<1.0	<0.5	<10	<0.5	<0.5	<0.5	<0.5
04/22/20		GW-16	8015B	<94	<50	--	--	--	--	--	--	--	--	--	--
05/27/20		GW-16, GMW-31, GW-14R	8015B & EPA 624	610	490	46	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<1.0	<1.0
06/24/20		GW-16, GMW-31, GW-14R	8015B & EPA 624	850	640	79	<5.0	<5.0	<10	<5.0	12	6.4	<5.0	<1.0	<1.0
07/24/20	12	GW-16, GMW-31, GW-14R	8015B & EPA 624	1,000	150	6.2	<5.0	<5.0	<10	<5.0	18	<5.0	<5.0	<1.0	<1.0
11/24/20	12	GW-16, GMW-31, GW-14R	8015B & EPA 624	430	190	5.3	<5.0	<5.0	<10	<5.0	12	<5.0	<5.0	<1.0	<1.0
01/28/21	13	GW-16, GMW-31, GW-14R	8015B & EPA 624	860	410	34	<5.0	<5.0	<10	<5.0	25	<5.0	<5.0	<1.0	<1.0
02/10/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	1,500	740	48	<5.0	<5.0	<10	<5.0	30	5.2	<5.0	<1.0	<1.0
05/05/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	470	190	8.6	<5.0	<5.0	<10	<5.0	14	<5.0	<5.0	<1.0	<1.0
06/11/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	540	260	7.0	<5.0	<5.0	<10	<5.0	17	<5.0	<5.0	<1.0	<1.0
07/09/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	480	250	6.2	<5.0	<5.0	<10	<5.0	21	<5.0	<5.0	<1.0	<1.0
08/18/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	500	110	<5.0	<5.0	<5.0	<10	<5.0	26	<5.0	<5.0	<1.0	<1.0
09/27/21		GMW-31, GW-14R	8015B & EPA 624	800	220	<5.0	<5.0	<5.0	<10	<5.0	33	<5.0	<5.0	<1.0	<1.0
10/20/21		GMW-31, GW-14R	8015B & EPA 624	760	140	<5.0	<5.0	<5.0	<10	<5.0	36	<5.0	<5.0	<1.0	<1.0
11/10/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	550	<50	<5.0	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<1.0	<1.0
12/07/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	620	120	<5.0	<5.0	<5.0	<10	<5.0	39	<5.0	<5.0	<1.0	<1.0
01/19/22		GW-16, GW-14R	8015B & EPA 624	830	210	<5.0	<5.0	<5.0	<10	<5.0	36	<5.0	<5.0	<1.0	<1.0
02/16/22		GW-16, GW-14R	8015B & EPA 624	420	55	<5.0	<5.0	<5.0	<10	<5.0	46	<5.0	<5.0	<1.0	<1.0
03/09/22		GW-16, GW-14R	8015B & EPA 624	460	67	<5.0	<5.0	<5.0	<10	<5.0	42	<5.0	<5.0	<1.0	<1.0
04/28/22		GW-16, GMW-31, GW-14R	8015B & EPA 624	490	<50	<5.0	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<1.0	<1.0
05/11/22		GW-16, GMW-31, GW-14R	8015B & EPA 624	470	<50	<5.0	<5.0	<5.0	<10	<5.0	58	<5.0	<5.0	<1.0	<1.0



TABLE 8
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)
06/16/22		GW-16, GMW-31	8015B & EPA 624	47	<50	<5.0	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<1.0	<1.0
09/28/22	14,15	GW-16, GMW-31, GW-14R	8015B & EPA 624	340	<50	<5.0	<0.5	<5.0	<10	<5.0	49	<5.0	<5.0	<1.0	<1.0
10/26/22		GW-16, GW-14R	8015B & EPA 624	430	<50	<5.0	<0.5	<5.0	<10	<5.0	29	<5.0	<5.0	<1.0	<1.0
11/29/22		GW-16, GMW-31, GW-14R	8015B & EPA 624	360	<50	<5.0	<0.5	<5.0	<10	<5.0	10	<5.0	<5.0	<1.0	<1.0
12/21/22		GW-16, GMW-31, GW-14R	8015B & EPA 624	1,200	<50	<5.0	<0.5	<5.0	<10	<5.0	<10	<5.0	<5.0	<1.0	<1.0
01/23/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	610	<50	<5.0	<0.5	<5.0	<10	<5.0	16	<5.0	<5.0	<1.0	<1.0
02/15/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	730	56	<5.0	<0.5	<5.0	<10	<5.0	22	<5.0	<5.0	<1.0	<1.0
03/22/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	380	<50	<5.0	<0.5	<5.0	<10	<5.0	26	<5.0	<5.0	<1.0	<1.0
04/19/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	650	61	<5.0	<0.5	<5.0	<10	<5.0	29	<5.0	<5.0	<1.0	<1.0
05/24/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	350	<50	<5.0	<0.5	<5.0	<10	<5.0	34	<5.0	<5.0	<1.0	<1.0
06/08/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	340	<50	<5.0	<0.5	<5.0	<10	<5.0	35	<5.0	<5.0	<1.0	<1.0

Legend / Notes:

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

GWETS = Groundwater extraction and treatment system
 ETBE = Ethyl tertiary-butyl ether

TPHd = Total petroleum hydrocarbons as diesel
 TPHg = Total petroleum hydrocarbons as gasoline

MTBE = Methyl tertiary-butyl ether
 TAME = tertiary-Amyl-methyl ether

TBA = tertiary-Butyl alcohol
 µg/L = Micrograms per liter

DIPE = Diisopropyl ether
 -- = 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.
- 12 = GWETS manually shut down on 6/30/20 and largely remained off-line through early January 2021 with the exception of a few operational days and/or weeks to collect system removal performance samples.
- 13 = GWETS restarted on 1/5/21.
- 14 = GWETS manually shut down 6/24/22 due to naturally occurring sludge in extraction wells.
- 15 = GWETS restarted on 9/9/22 following extensive in-well chemical treatment and installation of new pumps in all extraction wells.



TABLE 9A
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	--	--

TABLE 9A
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
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	--	--
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	--	--

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

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



TABLE 9A
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
04/01/20		HW-1, HW-5, HW-7, HW-8, HW-9	132	--	5	87	4	1,982
04/10/20		HW-1, HW-5, HW-7, HW-8, HW-9	172	--	5	145	0	378
04/15/20		HW-1, HW-5, HW-7, HW-8, HW-9	143	--	4	286	3	768
04/24/20		HW-1, HW-5, HW-7, HW-8, HW-9	83	--	16	337	4	780
05/01/20		HW-1, HW-5, HW-7, HW-8, HW-9	108	--	1	15000+	1	15000+
05/06/20		HW-1, HW-5, HW-7, HW-8, HW-9	99	--	18	15000+	2	15000+
05/15/20		HW-1, HW-5, HW-7, HW-8, HW-9	199	--	8	697	7	1,058
05/28/20		HW-1, HW-5, HW-7, HW-8, HW-9	105	--	5	636	5	1,841
06/03/20		HW-1, HW-5, HW-7, HW-8, HW-9	88	--	3	475	4	968
06/09/20		HW-1, HW-5, HW-7, HW-8, HW-9	73	--	3	399	1	853
06/22/20		HW-1, HW-5, HW-7, HW-8, HW-9	140	--	71	493	3	957
06/23/20	21	HW-1, HW-7, HW-9	--	--	--	--	--	--
07/01/20		HW-1, HW-7, HW-9	165	--	--	615	--	1,867
07/07/20		HW-1, HW-7, HW-9	123	--	--	457	--	1,882
07/17/20		HW-1, HW-7, HW-9	127	--	--	387	--	3,470
07/20/20		HW-1, HW-7, HW-9	127	--	--	339	--	1,893
07/31/20		HW-1, HW-7, HW-9	106	--	--	330	--	211
08/07/20		HW-1, HW-7, HW-9	320	--	--	503	--	929
08/10/20		HW-1, HW-7, HW-9	98	--	--	463	--	2,908
08/17/20		HW-1, HW-7, HW-9	128	--	--	660	--	3,633
08/24/20		HW-1, HW-7, HW-9	141	--	12	615	15	7,848
08/26/20		HW-1, HW-7, HW-9	108	--	--	546	--	2,573
08/31/20		HW-1, HW-7, HW-9	97	--	--	490	--	1,873
09/11/20		HW-1, HW-7, HW-9	86	--	--	439	--	1,502
09/14/20		HW-1, HW-7, HW-9	362	--	--	398	--	3,815
09/24/20		HW-1, HW-7, HW-9	42	--	--	311	--	34
09/28/20		HW-1, HW-7, HW-9	115	--	--	471	--	1,783
10/05/20		HW-1, HW-7, HW-9	122	--	--	400	--	3,011
10/12/20		HW-1, HW-7, HW-9	77	--	--	219	--	1,542
10/19/20		HW-1, HW-7, HW-9	101	--	--	1,791	--	1,771
10/28/20		HW-1, HW-7, HW-9	102	--	--	171	--	69

TABLE 9A
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
11/5/20		HW-1, HW-7, HW-9	107	--	49	165	124	1,421
11/16/20		HW-1, HW-5, HW-7, HW-9	64	--	25	134	--	964
11/24/20		HW-1, HW-5, HW-7, HW-9	46	--	104	--	--	993
1/15/21		HW-1, HW-9, HW-5, HW-7	48	--	72	56	--	976
2/4/21		HW-1, HW-9, HW-5, HW-7	139	--	77	59	--	421
2/8/21		HW-1, HW-9, HW-5, HW-7	48	--	--	--	--	--
2/24/21		HW-1, HW-9, HW-5, HW-7	43	--	6	35	--	1,287
3/4/21		HW-1, HW-8, HW-9, HW-5, HW-7	48	--	33	295	46	535
3/8/21	22	HW-1, HW-8, HW-9, HW-5, HW-7	48	--	19	231	3	458
3/15/21		HW-1, HW-9, HW-5, HW-7	37	--	48	245	--	1,192
3/24/21		HW-1, HW-9, HW-5, HW-7	43	--	63	73	--	1,274
3/30/21		HW-1, HW-9, HW-5, HW-7	--	--	73	68	--	1,150
4/6/21		HW-1, HW-9, HW-5, HW-7	43	--	49	346	--	592
4/15/21		HW-1, HW-9, HW-5, HW-7	33	--	33	193	--	605
4/19/21		HW-1, HW-9, HW-5, HW-7	71	--	42	--	--	369
4/26/21		HW-1, HW-9, HW-5, HW-7	58	--	61	141	--	456
5/10/21		HW-1, HW-9, HW-5, HW-7	144	--	100	364	--	833
5/19/21		HW-1, HW-9, HW-5, HW-7	61	--	64	104	--	583
5/28/21		HW-1, HW-9, HW-5, HW-7	46	--	15	121	--	675
6/4/21		HW-1, HW-9, HW-5, HW-7	25	--	7	121	--	879
6/16/21		HW-1, HW-9, HW-5, HW-7	70	--	16	101	--	493
6/21/21		HW-1, HW-9, HW-5, HW-7	37	--	14	136	--	727
6/28/21		HW-1, HW-9, HW-5, HW-7	21	--	5	133	--	840
7/7/21		HW-1, HW-9, HW-5, HW-7	79	--	37	153	--	613
7/16/21		HW-1, HW-9, HW-5, HW-7	31	--	21	102	--	448
7/23/21		HW-1, HW-9, HW-5, HW-7	43	--	18	118	--	425
7/28/21		HW-1, HW-9, HW-5, HW-7	49	--	45	137	--	697
8/3/21		HW-1, HW-9, HW-5, HW-7	27	--	24	125	--	515
8/9/21		HW-1, HW-9, HW-5, HW-7	41	--	46	68	--	715
8/18/21		HW-1, HW-9, HW-5, HW-7	22	--	12	102	--	698
8/25/21		HW-1, HW-9, HW-5, HW-7	18	--	20	68	--	479

TABLE 9A
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
8/31/21		HW-1, HW-9, HW-5, HW-7	13	--	18	46	--	455
9/14/21		HW-1, HW-9, HW-5, HW-7	59	--	54	201	--	710
9/20/21		HW-1, HW-9, HW-5, HW-7	63	--	45	153	--	634
9/27/21		HW-1, HW-9, HW-5, HW-7	22	--	14	92	--	788
10/5/21		HW-1, HW-9, HW-5, HW-7	54	--	29	137	--	663
10/13/21		HW-1, HW-9, HW-5, HW-7	17	--	1	90	--	373
10/18/21		HW-1, HW-9, HW-5, HW-7	38	--	7	121	--	621
10/27/21		HW-1, HW-9, HW-5, HW-7	23	--	26	184	--	463
11/1/21		HW-1, HW-9, HW-5, HW-7	65	--	78	145	--	917
11/9/21		HW-1, HW-9, HW-5, HW-7	26	--	14	130	--	546
11/17/21		HW-1, HW-9, HW-5, HW-7	16	--	3	165	--	427
11/30/21		HW-1, HW-9, HW-5, HW-7	14	--	40	187	--	376
12/6/21		HW-1, HW-9, HW-5, HW-7	18	--	5	151	--	588
12/13/21		HW-1, HW-9, HW-5, HW-7	12	--	3	160	--	831
12/28/21		HW-1, HW-9, HW-5, HW-7	10	--	2	786	--	812
1/6/22		HW-1, HW-9, HW-5, HW-7	29	--	43	17	--	525
1/11/22		HW-1, HW-9, HW-5, HW-7	79	--	75	853	--	425
1/18/22		HW-1, HW-9, HW-5, HW-7	38	--	22	1,373	--	796
1/26/22		HW-1, HW-9, HW-5, HW-7	11	--	12	0	--	535
2/1/22		HW-1, HW-9, HW-5, HW-7	17	--	108	1,414	--	1,130
2/9/22		HW-1, HW-9, HW-5, HW-7	22	--	6	930	--	514
2/15/22		HW-1, HW-9, HW-5, HW-7	55	--	63	802	--	1,082
2/22/22		HW-1, HW-9, HW-5, HW-7	25	--	23	159	--	902
3/1/22		HW-1, HW-9, HW-5, HW-7	22	--	47	168	--	1,050
3/9/22		HW-1, HW-9, HW-5, HW-7	34	--	58	652	--	715
3/15/22		HW-1, HW-9, HW-5, HW-7	44	--	4	84	--	843
3/21/22		HW-1, HW-9, HW-5, HW-7	41	--	4	420	--	381
3/31/22		HW-1, HW-9, HW-5, HW-7	47	--	25	325	--	814
4/6/22		HW-1, HW-9, HW-5, HW-7	32	--	4	550	--	626
4/13/22		HW-1, HW-9, HW-5, HW-7	37	--	13	486	--	568
4/26/22		HW-1, HW-9, HW-5, HW-7	30	--	66	595	--	653

TABLE 9A
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
5/3/22		HW-1, HW-9, HW-5, HW-7	44	--	57	628	--	483
5/10/22		HW-1, HW-9, HW-5, HW-7	41	--	55	373	--	754
5/17/22		HW-1, HW-9, HW-5, HW-7	32	--	68	973	--	1,281
5/27/22		HW-1, HW-9, HW-5, HW-7	19	--	4	618	--	693
6/3/22		HW-1, HW-9, HW-5, HW-7	22	--	37	1,392	--	860
6/9/22		HW-1, HW-9, HW-5, HW-7	28	--	43	1,275	--	885
6/16/22		HW-1, HW-9, HW-5, HW-7	14	--	55	1,809	--	464
7/1/22		HW-1, HW-9, HW-5, HW-7	20	--	4	1,576	--	672
7/12/22		HW-1, HW-9, HW-5, HW-7	30	--	25	1,303	--	463
7/29/22		HW-1, HW-9, HW-5, HW-7	47	--	62	553	--	386
8/1/22		HW-1, HW-9, HW-5, HW-7	13	--	10	19	--	468
8/8/22		HW-1, HW-9, HW-5, HW-7	12	--	6	53	--	420
8/18/22		HW-1, HW-9, HW-5, HW-7	14	--	11	73	--	526
8/30/22		HW-1, HW-9, HW-5, HW-7	18	--	11	65	--	412
9/7/22		HW-1, HW-9, HW-5, HW-7	9	--	4	95	--	417
9/15/22		HW-1, HW-9, HW-5, HW-7	9	--	28	273	--	>15000
9/16/22		HW-1, HW-9, HW-5, HW-7	--	--	--	--	--	12,400
9/20/22		HW-1, HW-9, HW-5, HW-7	12	--	13	161	--	1,269
9/29/22		HW-1, HW-9, HW-5, HW-7	9	--	19	163	--	385
10/6/22		HW-1, HW-9, HW-5, HW-7	8	--	26	186	--	342
10/11/22		HW-1, HW-9, HW-5, HW-7	19	--	22	--	--	324
11/10/22		HW-1, HW-9, HW-5, HW-7	26	--	2	275	--	281
11/18/22		HW-1, HW-9, HW-5, HW-7	30	--	24	314	--	390
12/1/22		HW-1, HW-9, HW-5, HW-7	27	--	22	337	--	415
12/6/22	23	HW-1, HW-9, HW-5	17	--	23	--	--	303
1/6/23		HW-1, HW-9, HW-5	10	--	2	--	--	1,150
1/20/23	24	HW-1, HW-9, HW-5, HW-7	10	--	16	15,000	--	15,000
1/31/23		HW-1, HW-9, HW-5, HW-7	0	--	0	386	--	284
2/10/23		HW-1, HW-9, HW-5, HW-7	22	--	15	41	--	867
2/17/23		HW-1, HW-9, HW-5, HW-7	--	--	--	--	--	--
2/21/23		HW-1, HW-9, HW-5, HW-7	62	--	17	14	--	2,080

TABLE 9A
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
3/2/23		HW-1, HW-9, HW-5, HW-7	97	--	99	131	--	1,853
3/9/23		HW-1, HW-9, HW-5, HW-7	43	--	41	160	--	1,231
3/13/23		HW-1, HW-9, HW-5, HW-7	20	--	4	213	--	1,115
3/23/23		HW-1, HW-9, HW-5, HW-7	22	--	31	14	--	382
3/30/23		HW-1, HW-9, HW-5, HW-7	28	--	24	14	--	201
4/6/23		HW-1, HW-9, HW-5, HW-7	24	--	26	10	--	172
4/14/23		HW-1, HW-9, HW-5, HW-7	21	--	28	17	--	205
4/27/23		HW-1, HW-9, HW-5, HW-7	49	--	12	13	--	13
5/4/23		HW-1, HW-9, HW-5, HW-7	36	--	16	10	--	98
5/11/23		HW-1, HW-9, HW-5, HW-7	21	--	7	4	--	8
6/1/23		HW-1, HW-9, HW-5, HW-7	18	--	4	3	--	8
6/23/23	25	HW-1, HW-9, HW-5, HW-7	14	--	23	11	--	795

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 HW-8 and HW-5 due to low PID readings. HW-7 and HW-9 opened 100%

22 = Closed off HW-8 due to low PID readings.

23 = Closed off HW-7 due to horizontal well drilling activities.

24 = Opened HW-7 following drilling activities.

25 = Opened new Trunklines 6 & 7 to the Thermox VES

* = 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 9B
Summary of Field Vapor Readings - Central Area Vertical Wells
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade																																		
			Truckline #1, VECV #17					Truckline #3, VECV #14					Truckline #3, VECV #15					Truckline #4, VECV #16					Truckline #4, VECV #18					Truckline #5, VECV #19					Truckline #5, VECV #20				
			TFR-21	TFR-26	TFR-27	TFR-28	TFR-34	TFR-18	RTF-18-E	RTF-18-W	RTF-18-NW	RTF-18-NNW	TFR-20	TFR-23	TFR-24	TFR-30	TFR-33	TFR-29	TFR-32	TFR-35	TFR-36	TFR-37	TFR-17	TFR-18	TFR-19	TFR-22	TFR-25	TFR-11	TFR-13	TFR-14	TFR-15	TFR-16	TFR-5	TFR-7	TFR-9	TFR-10	TFR-12
03/05/21		(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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12)	3,934	1,544	848	874	302	676	3,860	4,010	746	3,828	30	66	16,240	708	912	12,440	--	--	--	--	2,258	1,174	4,890	28,750	9,150	--	2,648	270	342	--	--	278	562	--	212
05/13/21		(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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12)	3,858	1,428	778	588	220	668	2,296	1,954	246	1,848	128	154	12,170	786	584	9,220	--	--	--	--	2,040	500	2,552	19,150	5,690	--	2,160	184	316	--	--	38	490	--	70
07/23/21		(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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12)	3,549	1,492	725	656	275	394	1,396	1,106	264	884	8	20	9,570	458	254	7,780	--	--	--	--	1,048	280	2,132	17,140	3,860	--	1,474	110	174	--	--	86	348	--	62
09/16/21		(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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12)	3,625	1,520	796	620	250	205	1,250	335	940	1,628	12	14	7,130	406	205	8,150	--	--	--	--	968	305	2,084	15,850	4,150	--	1,380	155	210	--	--	102	354	--	98
01/21/22		(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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12)	2,544	1,265	710	486	74	306	965	1,336	150	904	54	76	10,520	376	416	6,850	--	--	--	--	654	220	1,455	15,750	4,845	--	1,446	126	34	--	--	40	268	--	200
03/08/22		(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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12)	2,836	1,220	740	520	138	280	1,025	1,122	325	1,406	46	102	9,865	412	315	6,620	--	--	--	--	722	265	2,130	15,750	4,260	--	1,122	178	126	--	--	88	244	--	266
08/15/22		(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-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12)	2,734	688	376	404	92	76	1,234	1,894	342	716	0	2	224	94	9,330	6,160	--	--	--	--	310	94	214	12,150	3,170	--	386	68	56	--	--	24	128	--	94

Legend / Notes:

GRO = Gasoline range organics ppmv = Parts per million by volume OVA = Organic Vapor Analyzer -- = Readings not taken VES = Vapor extraction system
 Concentrations measured using calibrated field OVA.
 1 = Wells RW-35 through RW-38, and RW47 through RW-50 tied into thermal oxidizer VES during late June 2018 following installation per SGI's July 2018 Well Installation Completion Report.
 2 = See Tables 8A, 8C and 8D for applicable HW, VEW and RW on line well field vapor readings.
 3 = New Thermal Oxidizer system startup on 3/13/19.
 4 = Closed wells were opened to check for rebound concentrations.
 * = Carbon vapor extraction system and thermal oxidizer vapor extraction system.



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

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

TABLE 9C
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
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		
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		
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		
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		
07/23/19		(RW-1), (RW-11), (RW-18), (RW-13), (RW-4), RW-5, RW-9, RW-10)	643	--	--	--	--	--	--	--	--	6	--	--	--	--	130	--	--	724.0	--	--	851	805		
08/26/19	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		
09/23/19		(RW-1), (RW-18), (RW-13), (RW-4), RW-5, RW-9, RW-10)	682	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	177	258	306	179	145		



TABLE 9C
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			
12/03/19	7	(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		(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	7	(RW-1), (RW-2, RW-7), (RW-13, RW-14), (RW-3, RW-4, 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
09/29/20	7	(RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10)	704	8	4	--	--	--	--	--	10	--	--	--	38	--	2	4	2	102	--	62	112	--	780	350
10/27/20		(RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10)	834	--	--	--	--	--	--	--	36	--	--	--	60	--	--	--	--	1,262	0	108	140	--	1,028	274
01/21/21	7	(RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10)	604	4	0	0	0	0	0	0	40	0	0	0	116	0	6	0	0	1,676	4	6	140	2	2,086	28
03/05/21		(RW-1), (RW-7), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10)	740	--	--	--	--	--	--	--	6	--	--	--	46	--	--	--	--	442	--	22	160	--	1,660	142
04/27/21		(RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10)	702	--	--	--	--	--	--	--	--	--	--	--	16	--	--	--	--	308	--	60	114	--	1,650	76
07/22/21		(RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10)	652	--	--	--	--	--	--	--	--	--	--	--	27	--	--	--	--	206	--	40	206	--	995	42
09/02/21		(RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10)	722	--	--	--	--	--	--	--	--	--	--	--	19	--	--	--	--	272	--	55	187	--	1,121	36
01/14/22		(RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10)	514	--	--	--	--	--	--	--	--	--	--	--	34	--	--	--	--	64	--	34	130	--	1,200	28
03/11/22		(RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10)	424	--	--	--	--	--	--	--	--	--	--	--	4	--	--	--	--	44	--	30	90	--	968	26
08/17/22		(RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10)	190	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22	--	2	10	--	646	24

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
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	VEV-39	RW-30	RW-31	RW-32	RW-34	VEV-38	VEV-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			
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	1,625	--	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 50	--	--	--	--	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 50	--	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	841	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	561	--	--				
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				
09/26/19	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	7	(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-44), (RW-36, RW-37, RW-41, RW-42), (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-22, RW-29), (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-22, RW-29), (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				
10/02/20	7	(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)	2	--	4	174	54	68	5	24	750	72	926	--	--	--	66	4	--	--	110	70	16	18	--	4	56	6	252	122	1,044	574	66	54	76	16	128			
10/27/20		(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)	--	--	--	242	184	116	18	--	1,115	302	2,352	--	--	--	118	--	--	--	184	165	--	16	--	--	86	--	208	162	988	588	--	270	386	10	178			
01/21/21	7	(RW-30), (VEW-40, RW-26, RW-28), (RW-33), (RW-22, RW-29), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	0	0	0	6	0	0	0	2	12	0	2	0	0	0	0	0	0	0	0	64	8	0	2	2	0	2	2	96	94	1,156	394	8	166	462	0	104		
03/05/21		(RW-21, RW-23), (RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-24, RW-25, RW-27, RW-33, RW-43), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8	4	--	282	--	--	--	36	1,144	136	842	10	4	16	42	8	--	--	8	2	--	16	--	--	102	--	196	90	844	524	--	130	288	14	104			
04/29/21		(RW-30), (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)	--	--	--	178	--	--	--	2	715	26	388	--	--	22	--	--	--	--	--	--	--	--	--	--	--	208	94	620	412	--	78	74	14	74				
07/22/21		(RW-30), (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)	--	--	--	--	--	--	--	2	738	68	636	--	--	--	60	--	--	--	--	--	--	--	--	--	--	10	--	64	--	184	87	688	362	--	10	18	2	34



TABLE 9D
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-36	RW-39	RW-40	RW-44	RW-36	RW-37	RW-41	RW-42	RW-46	RW-47	RW-48	RW-49
09/02/21		(RW-30), (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)	--	--	--	210	--	--	--	2	725	71	586	--	--	--	55	--	--	--	--	8	--	--	75	--	136	78	726	351	--	62	54	8	65	
10/06/22	7	(RW-30), (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)	0	10	4	160	4	8	12	2	554	30	318	2	0	0	52	0	0	0	0	2	28	0	0	74	8	130	102	716	264	10	--	--	--	--
01/13/22		(RW-30), (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)	--	--	--	160	--	--	--	44	674	140	680	--	--	--	78	--	--	--	--	95	--	--	72	--	104	454	706	212	--	30	6	0	48	
03/01/22		(RW-30), (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)	--	--	--	155	--	--	--	35	586	105	706	--	--	--	66	--	--	--	--	43	--	--	75	--	115	95	690	275	--	42	21	2	55	
08/04/22		(RW-30), (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)	--	--	--	122	--	--	--	--	440	40	200	--	--	--	82	--	--	--	--	10	--	--	48	--	70	142	598	336	--	68	12	4	70	

Legend / Notes:

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

Concentrations measured using calibrated field OVA.

1 = Wells RW-20 through RW-24, RW-26, and RW-28 through RW-33 initially tied into carbon VES during early August 2017 following installation per SGI's June 30, 2017 Remediation Well Installation Update Report.

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

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

4 = Wells RW-20 through RW-24, RW-26, and RW-28 through RW-33 disconnected from carbon VES and tied into thermal oxidizer VES upon 01/09/18 startup (see SGI's May 15, 2018 Remediation Status Report - First Quarter 2018 for details).

5 = Wells RW-19, RW-25, RW-27, RW-34, and RW-39 through RW-46 tied into thermal oxidizer VES during late June 2018 following installation per SGI's July 2018 Well Installation Completion Report.

6 = New Thermal Oxidizer system startup on 3/13/15.

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
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	8015 & 8260B	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	
	05/15/20	199			24	100	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0	
	08/24/20	141			12	50	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0	
	11/05/20	107		8.3	34	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0		
	02/24/21	43		8.3	34	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0		
	07/07/21	79		17	68	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0		
	10/18/21	38		14	58	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0		
01/18/22	38	6.4	26	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0				
05/10/22	41	6.8	28	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0				
08/08/22	12	<4.9	<20	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0				
11/10/22	26	5.4	22	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0				
02/21/23	62	<4.9	<20	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0				
06/08/23	--	<4.9	<20	<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				



TABLE 10
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-5	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			4.0	<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
	05/15/20			7.5	<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
	08/24/20			12	<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
	11/05/20			49	<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
	02/24/21			5.7	<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
	07/07/21			37	<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
	10/18/21			7.0	<4.9	<20	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	01/18/22			22	<4.9	<20	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	05/10/22			55	<4.9	<20	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	08/08/22			5.7	<4.9	<20	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	11/10/22			1.7	<4.9	<20	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
02/21/23			17	<4.9	<20	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0	
06/08/23			--	<4.9	<20	<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-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		8015 & 8260B	230	170	710	2.0	6.5	0.56	2.1	<0.12	<0.50	<0.12	<0.50	0.32	1.4	<0.55	<2.0
	01/18/17	2		200	110	370	2.0	6.5	0.82	3.1	0.12	0.52	0.12	0.51	0.35	1.5	<0.55	<2.0
	05/03/17			260	240	1,000	2.1	6.6	1.2	4.6	0.15	0.64	0.15	0.66	0.51	2.2	<0.55	<2.0
	11/02/17			334	210	860	2.3	7.4	1.2	4.4	0.18	0.78	0.16	0.68	0.51	2.2	<0.55	<2.0
	02/12/18			290	230	960	1.3	4.0	0.48	1.8	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	03/28/18			270	190	760	0.59	1.9	0.21	0.79	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/06/18			--	210	840	1.30	4.2	0.80	3.00	0.12	0.53	0	1	0	2	<0.55	<2.0
	02/12/19			696	240	1,000	2.30	7.2	0.88	3.30	0.14	0.60	0	1	0	2	<0.55	<2.0
	11/25/19			730	240	1,000	0.53	1.7	0.42	1.60	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	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
	05/15/20			697	190	760	0.81	2.6	0.69	2.6	<0.12	<0.50	0.12	0.54	0.28	1.2	<0.55	<2.0
	08/24/20			615	130	540	0.88	2.8	0.45	1.70	<0.12	<0.50	<0.12	<0.50	0.28	1.2	<0.55	<2.0
	11/05/20			165	18	72	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	02/24/21			35	6.6	27	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	07/07/21			153	34	140	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	10/18/21			121	29	120	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	01/18/22			1,373	460	1,900	<0.078	<0.25	0.069	0.26	<0.058	<0.25	0.090	0.39	0.12	0.52	<0.28	<1.0
05/10/22			373	160	640	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0	
08/08/22			53	78	320	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0	
11/10/22			275	100	420	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0	
02/21/23			14	<4.9	<20	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0	
06/08/23			--	<4.9	<20	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0	



TABLE 10
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-8	11/25/19	8	8015 & 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	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
	05/15/20			7	<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
	08/24/20			15	<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
	11/05/20			124	<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
	06/08/23			--	95	390	<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-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
	05/15/20			1,058	510	2,100	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	08/24/20			7,848	560	2,300	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	11/05/20			1,421	340	1,400	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	02/24/21			1,287	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
	07/07/21			613	160	670	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	10/18/21			621	180	740	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	0.12	0.53	<0.28	<1.0
	01/18/22			796	210	840	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	05/10/22			754	190	790	<0.078	<0.25	<0.066	<0.25	0.092	0.40	<0.058	<0.25	0.16	0.70	<0.28	<1.0
	08/08/22			420	190	770	<0.078	<0.25	<0.066	<0.25	0.064	0.28	<0.058	<0.25	0.14	0.60	<0.28	<1.0
	11/10/22			281	110	470	<0.078	<0.25	<0.066	<0.25	0.060	0.26	<0.058	<0.25	0.12	0.52	<0.28	<1.0
	02/21/23			2,080	10	41	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	06/08/23			--	<4.9	<20	<0.16	<0.5	<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	



TABLE 10
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-35	06/27/17		8015 & 8260B	4.5	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-36	07/09/14	1		6.4	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	10/23/14			9.1	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	04/27/15			5.7	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/10/15			2.2	8.1	33	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/17			6.7	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-37	07/09/14	1		20	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	10/23/14			151	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	04/27/15			2.4	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/10/15			3.9	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/17			5.7	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-38	06/27/17	3		331	37	150	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	07/27/17			--	490	2,000	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	09/07/17			480	440	1,800	<0.16	<0.50	<0.13	<0.50	0.17	0.74	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/18	4		51	8.3	34	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-39	06/27/17	3		130	37	150	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	07/27/17			--	1,100	4,300	0.41	1.3	<0.13	<0.50	0.78	3.4	<0.12	<0.50	0.62	2.7	<0.55	<2.0
	09/07/17			190	29	120	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-40	06/27/17	3		3,018	2,700	11,000	0.28	0.88	<0.13	<0.50	0.99	4.3	<0.12	<0.50	0.81	3.5	<0.55	<2.0
	07/27/17			--	8,800	36,000	1.4	4.4	<0.13	<0.50	8.5	37	0.23	1.0	5.3	23	<0.55	<2.0
	09/07/17		9,200	7,600	31,000	0.97	3.1	<0.13	<0.50	3.7	16	0.25	1.1	2.2	9.0	<0.55	<2.0	
	06/27/18	4	5,100	2,900	12,000	<0.78	<2.5	<0.78	<2.5	0.78	3.4	<0.58	<2.5	<1.2	<5.0	<2.8	<10	
RW-1	08/09/17	5	1,268	1,100	4,400	1.7	5.4	3.7	14	0.85	3.7	0.55	2.4	2.5	11	<0.55	<2.0	
	09/07/17		3,860	2,300	9,600	6.3	20	16	60	2.8	12	2.0	8.9	7.4	32	<0.55	<2.0	
RW-2	08/09/17	5	16	39	160	0.19	0.61	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	03/14/18		31	22	92	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RW-3	03/14/18	6	68	37	150	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RW-4	03/14/18	6	598	460	1,900	1.8	5.9	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RW-5	03/14/18	6	4,600	2,900	12,000	1.7	5.5	<0.13	<0.50	0.78	3.4	0.18	0.76	2.5	11	<0.55	<2.0	
RW-7	08/09/17	5	120	320	1,300	<0.16	<0.50	0.14	0.53	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	03/14/18		54	64	260	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
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	



TABLE 10
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-18	09/07/17		8015 & 8260B	679	320	1,300	2.2	7.1	0.7	3	0.62	2.7	0.53	2.3	2.2	9.6	<0.55	<2.0
	03/14/18			937	490	2,000	1.4	4.4	<0.13	<0.50	<0.12	<0.50	0.25	1.1	0.76	3.3	<0.55	<2.0
RW-19	06/27/18	4		43	4.9	20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-20	08/16/17	5		129	73	300	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	09/07/17			58	61	250	<0.16	<0.50	<0.13	<0.50	0.16	0.69	<0.12	<0.50	0.32	1.4	<0.55	<2.0
RW-21	06/27/18	4		42	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	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
RW-22	06/27/18	4		55	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	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
RW-23	09/07/17			1,379	1,200	5,000	0.44	1.4	<0.13	<0.50	2.2	9.5	0.48	2.1	3.2	14	<0.55	<2.0
	06/27/18	4		2,595	1,200	4,800	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<10
RW-24	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-25	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
RW-26	06/27/18	4		459	98	400	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/09/17	5		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-27	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
RW-28	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
	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-29	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
RW-30	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
	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
RW-31	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-32	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
RW-33	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
	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
RW-34	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-35	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	
RW-36	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	
	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	
RW-37	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-38	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-39	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-40	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-41	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	



TABLE 10
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-38	06/27/18	4	8015 & 8260B	134	24	100	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-39	06/27/18	4		24	37	150	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-40	06/27/18	4		1,782	2,900	12,000	<0.78	<2.5	<0.66	<2.5	0.78	3.4	<0.58	<2.5	<1.2	<5.0	<2.8	<10
RW-41	06/27/18	4		849	1,300	5,300	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<10
RW-42	06/27/18	4		3,040	1,500	6,200	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<10
RW-43	06/27/18	4		886	230	950	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-44	06/27/18	4		728	88	360	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	2.2	9.4	0.60	2.6	<0.55	<2.0
RW-45	06/27/18	4		56	14	57	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	0.12	0.50	<0.23	<1.0	<0.55	<2.0
RW-46	06/27/18	4		191	44	180	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-47	06/27/18	4		751	240	1,000	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-48	06/27/18	4		1,454	540	2,200	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-49	06/27/18	4		823	180	720	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-50	06/27/18	4		5,000	1,600	6,500	<0.78	<2.5	<0.66	<2.5	1.2	5.0	<0.58	<2.5	<1.2	<5.0	<2.8	<10
RTF-18-NW	10/05/17	7		9,000	16,000	67,000	100	330	0.18	0.66	12	52	13	56	60	260	<0.55	<2.0
	10/09/17	7		3,635	18,000	72,000	170	550	<1.3	<5.0	17	75	19	83	92	400	<5.5	<20

Legend / Notes:

GRO = Gasoline range organics
 OVA = Organic Vapor Analyzer (calibrated or correlated to Hexane)
 MTBE = Methyl tertiary-butyl ether
 ppmv = Parts per million by volume
 µg/L = Micrograms per liter
 <0.6 = Not detected at or above the method reporting limit (MRL) shown.
 -- = Not measured

- Reported concentrations are shown in bold.

- 1 = Samples collected following system restart (off line since manual shut down on 05/29/14).
- 2 = Field OVA reading from 01/09/17.
- 3 = System tie in work to allow for vapor extraction completed during late June 2017 following installation per SGI's March 14, 2017 *Well Replacement Report and Work Plan*.
- 4 = System tie in work to allow for vapor extraction completed during late June 2018 following installation per SGI's July 2018 *Well Installation Completion Report*.
- 5 = System tie in work to allow for vapor extraction completed during early August 2017 following installation per SGI's June 30, 2017 *Remediation Well Installation Update Report*.
- 6 = System tie in work to allow for vapor extraction completed during mid-February 2018 following installation per SGI's June 30, 2017 *Remediation Well Installation Update Report*.
- 7 = Well temporarily utilized as an extraction point as part of vacuum enhanced LNAPL recovery testing per SGI's July 2018 *LNAPL Recovery Testing Report*.
- 8 = HW-3 abandoned and replaced on 6/7/19 and 6/10/19 and replaced with new horizontal wells HW-8 and HW-9. Nw HW's connected to VES Carbon system on 7/16/19.
- * = Tabulated data corrected after determining well HW-3 was incorrectly labeled as well HW-7 and vice versa during late July 2017 re-development work.



TABLE 11A
Biosparge System Operations Summary - 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)
04/01/23	Offline		25,801.3	--	--	--	--	--	--	--
04/02/23	Offline		25,801.3	--	--	--	--	--	--	--
04/03/23	Offline		25,801.3	--	--	--	--	--	--	--
04/04/23	Offline		25,801.3	--	--	--	--	--	--	--
04/05/23	Offline		25,801.3	--	--	--	--	--	--	--
04/06/23	Offline		25,801.3	--	--	--	--	--	--	--
04/07/23	Offline		25,801.3	--	--	--	--	--	--	--
04/08/23	Offline		25,801.3	--	--	--	--	--	--	--
04/09/23	Offline		25,801.3	--	--	--	--	--	--	--
04/10/23	Offline		25,801.3	--	--	--	--	--	--	--
04/11/23	Offline		25,801.3	--	--	--	--	--	--	--
04/12/23	Offline		25,801.3	--	--	--	--	--	--	--
04/13/23	Offline		25,801.3	--	--	--	--	--	--	--
04/14/23	Offline		25,801.3	--	--	--	--	--	--	--
04/15/23	Offline		25,801.3	--	--	--	--	--	--	--
04/16/23	Offline		25,801.3	--	--	--	--	--	--	--
04/17/23	Offline		25,801.3	--	--	--	--	--	--	--
04/18/23	Offline		25,801.3	--	--	--	--	--	--	--
04/19/23	Offline		25,801.3	--	--	--	--	--	--	--
04/20/23	Offline		25,801.3	--	--	--	--	--	--	--
04/21/23	Offline		25,801.3	--	--	--	--	--	--	--
04/22/23	Offline		25,801.3	--	--	--	--	--	--	--
04/23/23	Offline		25,801.3	--	--	--	--	--	--	--
04/24/23	Offline		25,801.3	--	--	--	--	--	--	--
04/25/23	Offline		25,801.3	--	--	--	--	--	--	--
04/26/23	Offline		25,801.3	--	--	--	--	--	--	--
04/27/23	Offline		25,801.3	--	--	--	--	--	--	--
04/28/23	Offline		25,801.3	--	--	--	--	--	--	--
04/29/23	Offline		25,801.3	--	--	--	--	--	--	--
04/30/23	Offline		25,801.3	--	--	--	--	--	--	--

Legend / Notes:

Biosparge system offline during the Second Quarter 2023.

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)
05/01/23	Offline		25,801.3	--	--	--	--	--	--	--
05/02/23	Offline		25,801.3	--	--	--	--	--	--	--
05/03/23	Offline		25,801.3	--	--	--	--	--	--	--
05/04/23	Offline		25,801.3	--	--	--	--	--	--	--
05/05/23	Offline		25,801.3	--	--	--	--	--	--	--
05/06/23	Offline		25,801.3	--	--	--	--	--	--	--
05/07/23	Offline		25,801.3	--	--	--	--	--	--	--
05/08/23	Offline		25,801.3	--	--	--	--	--	--	--
05/09/23	Offline		25,801.3	--	--	--	--	--	--	--
05/10/23	Offline		25,801.3	--	--	--	--	--	--	--
05/11/23	Offline		25,801.3	--	--	--	--	--	--	--
05/12/23	Offline		25,801.3	--	--	--	--	--	--	--
05/13/23	Offline		25,801.3	--	--	--	--	--	--	--
05/14/23	Offline		25,801.3	--	--	--	--	--	--	--
05/15/23	Offline		25,801.3	--	--	--	--	--	--	--
05/16/23	Offline		25,801.3	--	--	--	--	--	--	--
05/17/23	Offline		25,801.3	--	--	--	--	--	--	--
05/18/23	Offline		25,801.3	--	--	--	--	--	--	--
05/19/23	Offline		25,801.3	--	--	--	--	--	--	--
05/20/23	Offline		25,801.3	--	--	--	--	--	--	--
05/21/23	Offline		25,801.3	--	--	--	--	--	--	--
05/22/23	Offline		25,801.3	--	--	--	--	--	--	--
05/23/23	Offline		25,801.3	--	--	--	--	--	--	--
05/24/23	Offline		25,801.3	--	--	--	--	--	--	--
05/25/23	Offline		25,801.3	--	--	--	--	--	--	--
05/26/23	Offline		25,801.3	--	--	--	--	--	--	--
05/27/23	Offline		25,801.3	--	--	--	--	--	--	--
05/28/23	Offline		25,801.3	--	--	--	--	--	--	--
05/29/23	Offline		25,801.3	--	--	--	--	--	--	--
05/30/23	Offline		25,801.3	--	--	--	--	--	--	--
05/31/23	Offline		25,801.3	--	--	--	--	--	--	--

Legend / Notes:

Biosparge system offline during the Second Quarter 2023.

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)
06/01/23	Offline		25,801.3	--	--	--	--	--	--	--
06/02/23	Offline		25,801.3	--	--	--	--	--	--	--
06/03/23	Offline		25,801.3	--	--	--	--	--	--	--
06/04/23	Offline		25,801.3	--	--	--	--	--	--	--
06/05/23	Offline		25,801.3	--	--	--	--	--	--	--
06/06/23	Offline		25,801.3	--	--	--	--	--	--	--
06/07/23	Offline		25,801.3	--	--	--	--	--	--	--
06/08/23	Offline		25,801.3	--	--	--	--	--	--	--
06/09/23	Offline		25,801.3	--	--	--	--	--	--	--
06/10/23	Offline		25,801.3	--	--	--	--	--	--	--
06/11/23	Offline		25,801.3	--	--	--	--	--	--	--
06/12/23	Offline		25,801.3	--	--	--	--	--	--	--
06/13/23	Offline		25,801.3	--	--	--	--	--	--	--
06/14/23	Offline		25,801.3	--	--	--	--	--	--	--
06/15/23	Offline		25,801.3	--	--	--	--	--	--	--
06/16/23	Offline		25,801.3	--	--	--	--	--	--	--
06/17/23	Offline		25,801.3	--	--	--	--	--	--	--
06/18/23	Offline		25,801.3	--	--	--	--	--	--	--
06/19/23	Offline		25,801.3	--	--	--	--	--	--	--
06/20/23	Offline		25,801.3	--	--	--	--	--	--	--
06/21/23	Offline		25,801.3	--	--	--	--	--	--	--
06/22/23	Offline		25,801.3	--	--	--	--	--	--	--
06/23/23	Offline		25,801.3	--	--	--	--	--	--	--
06/24/23	Offline		25,801.3	--	--	--	--	--	--	--
06/25/23	Offline		25,801.3	--	--	--	--	--	--	--
06/26/23	Offline		25,801.3	--	--	--	--	--	--	--
06/27/23	Offline		25,801.3	--	--	--	--	--	--	--
06/28/23	Offline		25,801.3	--	--	--	--	--	--	--
06/29/23	Offline		25,801.3	--	--	--	--	--	--	--
06/30/23	Offline		25,801.3	--	--	--	--	--	--	--

Legend / Notes:

Biosparge system offline during the Second Quarter 2023.

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

May 15, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5334993 / 3D19013**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 04/19/23 16:54 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', written over a light blue circular stamp.

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: A5334993
Date Received: 04/19/23
Date Reported: 05/15/23

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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VOCs BTEX/MTBE Vapor GC/MS

VES Carbon-Influent	3D19013-01	Vapor	5	04/19/23 11:10	04/19/23 16:54
VES Carbon-Effluent	3D19013-02	Vapor	5	04/19/23 11:07	04/19/23 16:54

VOCs Gasoline Range Organics Vapor

VES Carbon-Influent	3D19013-01	Vapor	5	04/19/23 11:10	04/19/23 16:54
VES Carbon-Effluent	3D19013-02	Vapor	5	04/19/23 11:07	04/19/23 16:54

VOCs in Vapor as Hexane

VES Carbon-Influent	3D19013-01	Vapor	5	04/19/23 11:10	04/19/23 16:54
VES Carbon-Effluent	3D19013-02	Vapor	5	04/19/23 11:07	04/19/23 16:54

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: A5334993
Date Received: 04/19/23
Date Reported: 05/15/23
Sampled: 04/19/23
Prepared: 04/20/23
Analyzed: 04/20/23

VES Carbon-Influent
3D19013-01 (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	112 %	70-140
Dibromofluoromethane	102 %	70-140
Toluene-d8	111 %	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: A5334993
Date Received: 04/19/23
Date Reported: 05/15/23
Sampled: 04/19/23
Prepared: 04/20/23
Analyzed: 04/20/23

VES Carbon-Effluent
3D19013-02 (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	110 %	70-140
Dibromofluoromethane	108 %	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: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5334993
Date Received: 04/19/23
Date Reported: 05/15/23
Sampled: 04/19/23
Prepared: 04/21/23
Analyzed: 04/21/23

VES Carbon-Influent
3D19013-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	88	ug/L	20	22	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		117 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5334993
Date Received: 04/19/23
Date Reported: 05/15/23
Sampled: 04/19/23
Prepared: 04/21/23
Analyzed: 04/21/23

VES Carbon-Effluent
3D19013-02 (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		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
Method: VOCs in Vapor as Hexane

AA Project No: A5334993
Date Received: 04/19/23
Date Reported: 05/15/23
Units: ppmv

Date Sampled:	04/19/23	04/19/23	
Date Prepared:	04/21/23	04/21/23	
Date Analyzed:	04/21/23	04/21/23	
AA ID No:	3D19013-01	3D19013-02	
Client ID No:	VES	VES	
	Carbon-Influent	Carbon-Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	16	<4.9	4.9
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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: A5334993
Date Received: 04/19/23
Date Reported: 05/15/23

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 B3D2003 - *** DEFAULT PREP ***</i>										
Blank (B3D2003-BLK1)				Prepared & Analyzed: 04/20/23						
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>	59.3		ug/L	50.0		119	70-140			
<i>Surrogate: Dibromofluoromethane</i>	48.5		ug/L	50.0		96.9	70-140			
<i>Surrogate: Toluene-d8</i>	56.6		ug/L	50.0		113	70-140			
LCS (B3D2003-BS1)				Prepared & Analyzed: 04/20/23						
Benzene	19.1	0.50	ug/L	20.0		95.4	75-125			
Ethylbenzene	22.6	0.50	ug/L	20.0		113	75-125			
Methyl-tert-Butyl Ether (MTBE)	33.1	2.0	ug/L	40.0		82.7	75-125			
Toluene	23.3	0.50	ug/L	20.0		116	75-125			
o-Xylene	21.0	0.50	ug/L	20.0		105	75-125			
m,p-Xylenes	42.6	1.0	ug/L	40.0		107	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	53.1		ug/L	50.0		106	70-140			
<i>Surrogate: Dibromofluoromethane</i>	48.2		ug/L	50.0		96.4	70-140			
<i>Surrogate: Toluene-d8</i>	54.4		ug/L	50.0		109	70-140			
LCS Dup (B3D2003-BSD1)				Prepared & Analyzed: 04/20/23						
Benzene	18.0	0.50	ug/L	20.0		90.2	75-125	5.50	30	
Ethylbenzene	22.3	0.50	ug/L	20.0		111	75-125	1.60	30	
Methyl-tert-Butyl Ether (MTBE)	37.6	2.0	ug/L	40.0		94.1	75-125	12.9	30	
Toluene	21.5	0.50	ug/L	20.0		108	75-125	7.76	30	
o-Xylene	22.9	0.50	ug/L	20.0		115	75-125	8.97	30	
m,p-Xylenes	45.9	1.0	ug/L	40.0		115	75-125	7.50	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	52.1		ug/L	50.0		104	70-140			
<i>Surrogate: Dibromofluoromethane</i>	50.4		ug/L	50.0		101	70-140			
<i>Surrogate: Toluene-d8</i>	51.5		ug/L	50.0		103	70-140			
Duplicate (B3D2003-DUP1)				Source: 3D19012-01 Prepared & Analyzed: 04/20/23						

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: A5334993
Date Received: 04/19/23
Date Reported: 05/15/23

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 B3D2003 - *** DEFAULT PREP ***</i>										
Duplicate (B3D2003-DUP1) Continued Source: 3D19012-01 Prepared & Analyzed: 04/20/23										
Benzene	<0.25	0.25	ug/L		0.120			13.3	30	
Ethylbenzene	<0.25	0.25	ug/L		0.150			28.6	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	<0.25	0.25	ug/L						30	
o-Xylene	<0.25	0.25	ug/L						30	
m,p-Xylenes	0.505	0.50	ug/L		0.375			29.5	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	57.7		ug/L	50.0		115	70-140			
<i>Surrogate: Dibromofluoromethane</i>	63.9		ug/L	50.0		128	70-140			
<i>Surrogate: Toluene-d8</i>	53.0		ug/L	50.0		106	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3D2103 - *** DEFAULT PREP ***</i>										
Blank (B3D2103-BLK1) Prepared & Analyzed: 04/21/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	48.8		ug/L	50.0		97.5	70-130			
LCS (B3D2103-BS1) Prepared & Analyzed: 04/21/23										
Gasoline Range Organics (GRO)	520	20	ug/L	500		104	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	59.1		ug/L	50.0		118	70-130			
LCS Dup (B3D2103-BSD1) Prepared & Analyzed: 04/21/23										
Gasoline Range Organics (GRO)	493	20	ug/L	500		98.5	75-125	5.47	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	61.9		ug/L	50.0		124	70-130			
Duplicate (B3D2103-DUP1) Source: 3D19013-01 Prepared & Analyzed: 04/21/23										
Gasoline Range Organics (GRO)	66.4	20	ug/L		87.7			27.7	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	52.0		ug/L	50.0		104	70-130			
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3D2103 - *** DEFAULT PREP ***</i>										
Blank (B3D2103-BLK1) Prepared & Analyzed: 04/21/23										
Total VOCs as Hexane	<4.9	4.9	ppmv							
Duplicate (B3D2103-DUP1) Source: 3D19013-01 Prepared & Analyzed: 04/21/23										

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: A5334993
Date Received: 04/19/23
Date Reported: 05/15/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3D2103 - *** DEFAULT PREP ***</i>										
Duplicate (B3D2103-DUP1) Continued Source: 3D19013-01 Prepared & Analyzed: 04/21/23										
Total VOCs as Hexane	12.2	4.9	ppmv		16.2			28.4	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: A5334993
Date Received: 04/19/23
Date Reported: 05/15/23

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 15, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5334994 / 3D19014**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 04/19/23 16:54 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 circular stamp.

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: A5334994
Date Received: 04/19/23
Date Reported: 05/15/23

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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VOCs BTEX/MTBE Vapor GC/MS

VES After GAC-1	3D19014-01	Vapor	5	04/19/23 11:09	04/19/23 16:54
VES After GAC-2	3D19014-02	Vapor	5	04/19/23 11:08	04/19/23 16:54

VOCs Gasoline Range Organics Vapor

VES After GAC-1	3D19014-01	Vapor	5	04/19/23 11:09	04/19/23 16:54
VES After GAC-2	3D19014-02	Vapor	5	04/19/23 11:08	04/19/23 16:54

VOCs in Vapor as Hexane

VES After GAC-1	3D19014-01	Vapor	5	04/19/23 11:09	04/19/23 16:54
VES After GAC-2	3D19014-02	Vapor	5	04/19/23 11:08	04/19/23 16:54

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: A5334994
Date Received: 04/19/23
Date Reported: 05/15/23
Sampled: 04/19/23
Prepared: 04/20/23
Analyzed: 04/20/23

VES After GAC-1
3D19014-01 (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	122 %	70-140
Dibromofluoromethane	109 %	70-140
Toluene-d8	110 %	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:** A5334994**Date Received:** 04/19/23**Date Reported:** 05/15/23**Sampled:** 04/19/23**Prepared:** 04/20/23**Analyzed:** 04/20/23**VES After GAC-2****3D19014-02 (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

114 %

70-140

Dibromofluoromethane

108 %

70-140

Toluene-d8

108 %

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: A5334994
Date Received: 04/19/23
Date Reported: 05/15/23
Sampled: 04/19/23
Prepared: 04/21/23
Analyzed: 04/21/23

VES After GAC-1
3D19014-01 (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		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
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5334994
Date Received: 04/19/23
Date Reported: 05/15/23
Sampled: 04/19/23
Prepared: 04/21/23
Analyzed: 04/21/23

VES After GAC-2

3D19014-02 (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		95.7 %				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
Method: VOCs in Vapor as Hexane

AA Project No: A5334994
Date Received: 04/19/23
Date Reported: 05/15/23
Units: ppmv

Date Sampled:	04/19/23	04/19/23	
Date Prepared:	04/21/23	04/21/23	
Date Analyzed:	04/21/23	04/21/23	
AA ID No:	3D19014-01	3D19014-02	
Client ID No:	VES After GAC-1	VES After GAC-2	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	<4.9	<4.9	4.9
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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: A5334994
Date Received: 04/19/23
Date Reported: 05/15/23

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 B3D2003 - *** DEFAULT PREP ***</i>										
Blank (B3D2003-BLK1)				Prepared & Analyzed: 04/20/23						
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>	59.3		ug/L	50.0		119	70-140			
<i>Surrogate: Dibromofluoromethane</i>	48.5		ug/L	50.0		96.9	70-140			
<i>Surrogate: Toluene-d8</i>	56.6		ug/L	50.0		113	70-140			
LCS (B3D2003-BS1)				Prepared & Analyzed: 04/20/23						
Benzene	19.1	0.50	ug/L	20.0		95.4	75-125			
Ethylbenzene	22.6	0.50	ug/L	20.0		113	75-125			
Methyl-tert-Butyl Ether (MTBE)	33.1	2.0	ug/L	40.0		82.7	75-125			
Toluene	23.3	0.50	ug/L	20.0		116	75-125			
o-Xylene	21.0	0.50	ug/L	20.0		105	75-125			
m,p-Xylenes	42.6	1.0	ug/L	40.0		107	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	53.1		ug/L	50.0		106	70-140			
<i>Surrogate: Dibromofluoromethane</i>	48.2		ug/L	50.0		96.4	70-140			
<i>Surrogate: Toluene-d8</i>	54.4		ug/L	50.0		109	70-140			
LCS Dup (B3D2003-BSD1)				Prepared & Analyzed: 04/20/23						
Benzene	18.0	0.50	ug/L	20.0		90.2	75-125	5.50	30	
Ethylbenzene	22.3	0.50	ug/L	20.0		111	75-125	1.60	30	
Methyl-tert-Butyl Ether (MTBE)	37.6	2.0	ug/L	40.0		94.1	75-125	12.9	30	
Toluene	21.5	0.50	ug/L	20.0		108	75-125	7.76	30	
o-Xylene	22.9	0.50	ug/L	20.0		115	75-125	8.97	30	
m,p-Xylenes	45.9	1.0	ug/L	40.0		115	75-125	7.50	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	52.1		ug/L	50.0		104	70-140			
<i>Surrogate: Dibromofluoromethane</i>	50.4		ug/L	50.0		101	70-140			
<i>Surrogate: Toluene-d8</i>	51.5		ug/L	50.0		103	70-140			
Duplicate (B3D2003-DUP1)				Source: 3D19012-01 Prepared & Analyzed: 04/20/23						

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: A5334994
Date Received: 04/19/23
Date Reported: 05/15/23

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 B3D2003 - *** DEFAULT PREP ***</i>										
Duplicate (B3D2003-DUP1) Continued Source: 3D19012-01 Prepared & Analyzed: 04/20/23										
Benzene	<0.25	0.25	ug/L		0.120			13.3	30	
Ethylbenzene	<0.25	0.25	ug/L		0.150			28.6	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	<0.25	0.25	ug/L						30	
o-Xylene	<0.25	0.25	ug/L						30	
m,p-Xylenes	0.505	0.50	ug/L		0.375			29.5	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	57.7		ug/L	50.0		115	70-140			
<i>Surrogate: Dibromofluoromethane</i>	63.9		ug/L	50.0		128	70-140			
<i>Surrogate: Toluene-d8</i>	53.0		ug/L	50.0		106	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3D2103 - *** DEFAULT PREP ***</i>										
Blank (B3D2103-BLK1) Prepared & Analyzed: 04/21/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	48.8		ug/L	50.0		97.5	70-130			
LCS (B3D2103-BS1) Prepared & Analyzed: 04/21/23										
Gasoline Range Organics (GRO)	520	20	ug/L	500		104	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	59.1		ug/L	50.0		118	70-130			
LCS Dup (B3D2103-BSD1) Prepared & Analyzed: 04/21/23										
Gasoline Range Organics (GRO)	493	20	ug/L	500		98.5	75-125	5.47	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	61.9		ug/L	50.0		124	70-130			
Duplicate (B3D2103-DUP1) Source: 3D19013-01 Prepared & Analyzed: 04/21/23										
Gasoline Range Organics (GRO)	66.4	20	ug/L		87.7			27.7	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	52.0		ug/L	50.0		104	70-130			
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3D2103 - *** DEFAULT PREP ***</i>										
Blank (B3D2103-BLK1) Prepared & Analyzed: 04/21/23										
Total VOCs as Hexane	<4.9	4.9	ppmv							
Duplicate (B3D2103-DUP1) Source: 3D19013-01 Prepared & Analyzed: 04/21/23										

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: A5334994
Date Received: 04/19/23
Date Reported: 05/15/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3D2103 - *** DEFAULT PREP ***</i>										
Duplicate (B3D2103-DUP1) Continued Source: 3D19013-01 Prepared & Analyzed: 04/21/23										
Total VOCs as Hexane	12.2	4.9	ppmv		16.2			28.4	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: A5334994
Date Received: 04/19/23
Date Reported: 05/15/23

Special Notes

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

Viorel Vasile
Operations Manager



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

June 07, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5335044 / 3E25005**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 05/25/23 17:35 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', written over a light blue circular stamp.

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: A5335044
Date Received: 05/25/23
Date Reported: 06/07/23

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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VOCs BTEX/MTBE Vapor GC/MS

VES Carbon-Influent	3E25005-01	Vapor	5	05/25/23 10:24	05/25/23 17:35
VES Carbon-Effluent	3E25005-02	Vapor	5	05/25/23 10:15	05/25/23 17:35

VOCs Gasoline Range Organics Vapor

VES Carbon-Influent	3E25005-01	Vapor	5	05/25/23 10:24	05/25/23 17:35
VES Carbon-Effluent	3E25005-02	Vapor	5	05/25/23 10:15	05/25/23 17:35

VOCs in Vapor as Hexane

VES Carbon-Influent	3E25005-01	Vapor	5	05/25/23 10:24	05/25/23 17:35
VES Carbon-Effluent	3E25005-02	Vapor	5	05/25/23 10:15	05/25/23 17:35

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: A5335044
Date Received: 05/25/23
Date Reported: 06/07/23
Sampled: 05/25/23
Prepared: 05/26/23
Analyzed: 05/27/23

VES Carbon-Influent
3E25005-01 (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	88.2 %	70-140
Dibromofluoromethane	92.4 %	70-140
Toluene-d8	92.9 %	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: A5335044
Date Received: 05/25/23
Date Reported: 06/07/23
Sampled: 05/25/23
Prepared: 05/26/23
Analyzed: 05/26/23

VES Carbon-Effluent
3E25005-02 (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	86.5 %	70-140
Dibromofluoromethane	100 %	70-140
Toluene-d8	90.2 %	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: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335044
Date Received: 05/25/23
Date Reported: 06/07/23
Sampled: 05/25/23
Prepared: 05/25/23
Analyzed: 05/25/23

VES Carbon-Influent
3E25005-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	43	ug/L	20	11	ppmv	4.9
Surrogates		%REC				%REC Limits
a,a,a-Trifluorotoluene		86.1 %				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
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335044
Date Received: 05/25/23
Date Reported: 06/07/23
Sampled: 05/25/23
Prepared: 05/25/23
Analyzed: 05/25/23

VES Carbon-Effluent
3E25005-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		90.5 %			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: VOCs in Vapor as Hexane

AA Project No: A5335044
Date Received: 05/25/23
Date Reported: 06/07/23
Units: ppmv

Date Sampled:	05/25/23	05/25/23	
Date Prepared:	05/25/23	05/25/23	
Date Analyzed:	05/25/23	05/25/23	
AA ID No:	3E25005-01	3E25005-02	
Client ID No:	VES	VES	
	Carbon-Influent	Carbon-Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	6.9	<4.9	4.9
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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: A5335044
Date Received: 05/25/23
Date Reported: 06/07/23

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 B3E2605 - *** DEFAULT PREP ***</i>										
Blank (B3E2605-BLK1) Prepared & Analyzed: 05/26/23										
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>44.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>88.1</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>39.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>79.4</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.6</i>		<i>ug/L</i>	<i>50.0</i>		<i>99.1</i>	<i>70-140</i>			
LCS (B3E2605-BS1) Prepared & Analyzed: 05/26/23										
Benzene	17.1	0.50	ug/L	20.0		85.4	75-125			
Ethylbenzene	20.7	0.50	ug/L	20.0		104	75-125			
Methyl-tert-Butyl Ether (MTBE)	33.8	2.0	ug/L	40.0		84.6	75-125			
Toluene	20.5	0.50	ug/L	20.0		103	75-125			
o-Xylene	21.5	0.50	ug/L	20.0		107	75-125			
m,p-Xylenes	43.1	1.0	ug/L	40.0		108	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>44.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>89.0</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>41.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>82.2</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>45.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>91.1</i>	<i>70-140</i>			
LCS Dup (B3E2605-BSD1) Prepared & Analyzed: 05/26/23										
Benzene	17.2	0.50	ug/L	20.0		85.8	75-125	0.526	30	
Ethylbenzene	19.6	0.50	ug/L	20.0		97.8	75-125	5.76	30	
Methyl-tert-Butyl Ether (MTBE)	39.7	2.0	ug/L	40.0		99.3	75-125	16.0	30	
Toluene	19.8	0.50	ug/L	20.0		99.2	75-125	3.42	30	
o-Xylene	21.4	0.50	ug/L	20.0		107	75-125	0.607	30	
m,p-Xylenes	41.5	1.0	ug/L	40.0		104	75-125	3.69	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>43.6</i>		<i>ug/L</i>	<i>50.0</i>		<i>87.1</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>42.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>85.6</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>45.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>91.0</i>	<i>70-140</i>			
Duplicate (B3E2605-DUP1) Source: 3E25004-01 Prepared: 05/26/23 Analyzed: 05/27/23										

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: A5335044
Date Received: 05/25/23
Date Reported: 06/07/23

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 B3E2605 - *** DEFAULT PREP ***</i>										
Duplicate (B3E2605-DUP1) Continued Source: 3E25004-01 Prepared: 05/26/23 Analyzed: 05/27/23										
Benzene	0.435	0.25	ug/L		0.460			5.59	30	
Ethylbenzene	0.345	0.25	ug/L		0.375			8.33	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	0.250	0.25	ug/L		0.295			16.5	30	
o-Xylene	0.395	0.25	ug/L		0.335			16.4	30	
m,p-Xylenes	1.06	0.50	ug/L		1.02			3.86	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>42.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>84.9</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>46.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>92.4</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>46.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>93.7</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3E2521 - *** DEFAULT PREP ***</i>										
Blank (B3E2521-BLK1) Prepared & Analyzed: 05/25/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>44.6</i>		<i>ug/L</i>	<i>50.0</i>		<i>89.2</i>	<i>70-130</i>			
LCS (B3E2521-BS1) Prepared & Analyzed: 05/25/23										
Gasoline Range Organics (GRO)	443	20	ug/L	500		88.5	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>50.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>102</i>	<i>70-130</i>			
LCS Dup (B3E2521-BSD1) Prepared & Analyzed: 05/25/23										
Gasoline Range Organics (GRO)	468	20	ug/L	500		93.6	75-125	5.57	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>54.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>108</i>	<i>70-130</i>			
Duplicate (B3E2521-DUP1) Source: 3E25004-01 Prepared & Analyzed: 05/25/23										
Gasoline Range Organics (GRO)	804	20	ug/L		898			11.0	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>53.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>107</i>	<i>70-130</i>			
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3E2521 - *** DEFAULT PREP ***</i>										
Blank (B3E2521-BLK1) Prepared & Analyzed: 05/25/23										
Total VOCs as Hexane	<4.9	4.9	ppmv							
Duplicate (B3E2521-DUP1) Source: 3E25004-01 Prepared & Analyzed: 05/25/23										

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: A5335044
Date Received: 05/25/23
Date Reported: 06/07/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3E2521 - *** DEFAULT PREP ***</i>										
Duplicate (B3E2521-DUP1) Continued Source: 3E25004-01 Prepared & Analyzed: 05/25/23										
Total VOCs as Hexane	132	4.9	ppmv		147			11.2	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: A5335044
Date Received: 05/25/23
Date Reported: 06/07/23

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

June 07, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5335045 / 3E25006**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 05/25/23 17:35 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', written over a light blue circular stamp.

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: A5335045
Date Received: 05/25/23
Date Reported: 06/07/23

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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VOCs BTEX/MTBE Vapor GC/MS

VES After GAC-1	3E25006-01	Vapor	5	05/25/23 10:27	05/25/23 17:35
VES After GAC-2	3E25006-02	Vapor	5	05/25/23 10:30	05/25/23 17:35

VOCs Gasoline Range Organics Vapor

VES After GAC-1	3E25006-01	Vapor	5	05/25/23 10:27	05/25/23 17:35
VES After GAC-2	3E25006-02	Vapor	5	05/25/23 10:30	05/25/23 17:35

VOCs in Vapor as Hexane

VES After GAC-1	3E25006-01	Vapor	5	05/25/23 10:27	05/25/23 17:35
VES After GAC-2	3E25006-02	Vapor	5	05/25/23 10:30	05/25/23 17:35

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: A5335045
Date Received: 05/25/23
Date Reported: 06/07/23
Sampled: 05/25/23
Prepared: 05/26/23
Analyzed: 05/26/23

VES After GAC-1
3E25006-01 (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	88.1 %	70-140
Dibromofluoromethane	77.7 %	70-140
Toluene-d8	98.9 %	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: A5335045
Date Received: 05/25/23
Date Reported: 06/07/23
Sampled: 05/25/23
Prepared: 05/26/23
Analyzed: 05/26/23

VES After GAC-2
3E25006-02 (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	89.8 %	70-140
Dibromofluoromethane	85.7 %	70-140
Toluene-d8	95.4 %	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: A5335045
Date Received: 05/25/23
Date Reported: 06/07/23
Sampled: 05/25/23
Prepared: 05/25/23
Analyzed: 05/25/23

VES After GAC-1
3E25006-01 (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		92.8 %			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
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335045
Date Received: 05/25/23
Date Reported: 06/07/23
Sampled: 05/25/23
Prepared: 05/25/23
Analyzed: 05/25/23

VES After GAC-2
3E25006-02 (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		97.9 %				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
Method: VOCs in Vapor as Hexane

AA Project No: A5335045
Date Received: 05/25/23
Date Reported: 06/07/23
Units: ppmv

Date Sampled:	05/25/23	05/25/23	
Date Prepared:	05/25/23	05/25/23	
Date Analyzed:	05/25/23	05/25/23	
AA ID No:	3E25006-01	3E25006-02	
Client ID No:	VES After GAC-1	VES After GAC-2	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	<4.9	<4.9	4.9
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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: A5335045
Date Received: 05/25/23
Date Reported: 06/07/23

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 B3E2605 - *** DEFAULT PREP ***</i>										
Blank (B3E2605-BLK1) Prepared & Analyzed: 05/26/23										
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>44.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>88.1</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>39.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>79.4</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.6</i>		<i>ug/L</i>	<i>50.0</i>		<i>99.1</i>	<i>70-140</i>			
LCS (B3E2605-BS1) Prepared & Analyzed: 05/26/23										
Benzene	17.1	0.50	ug/L	20.0		85.4	75-125			
Ethylbenzene	20.7	0.50	ug/L	20.0		104	75-125			
Methyl-tert-Butyl Ether (MTBE)	33.8	2.0	ug/L	40.0		84.6	75-125			
Toluene	20.5	0.50	ug/L	20.0		103	75-125			
o-Xylene	21.5	0.50	ug/L	20.0		107	75-125			
m,p-Xylenes	43.1	1.0	ug/L	40.0		108	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>44.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>89.0</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>41.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>82.2</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>45.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>91.1</i>	<i>70-140</i>			
LCS Dup (B3E2605-BSD1) Prepared & Analyzed: 05/26/23										
Benzene	17.2	0.50	ug/L	20.0		85.8	75-125	0.526	30	
Ethylbenzene	19.6	0.50	ug/L	20.0		97.8	75-125	5.76	30	
Methyl-tert-Butyl Ether (MTBE)	39.7	2.0	ug/L	40.0		99.3	75-125	16.0	30	
Toluene	19.8	0.50	ug/L	20.0		99.2	75-125	3.42	30	
o-Xylene	21.4	0.50	ug/L	20.0		107	75-125	0.607	30	
m,p-Xylenes	41.5	1.0	ug/L	40.0		104	75-125	3.69	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>43.6</i>		<i>ug/L</i>	<i>50.0</i>		<i>87.1</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>42.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>85.6</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>45.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>91.0</i>	<i>70-140</i>			
Duplicate (B3E2605-DUP1) Source: 3E25004-01 Prepared: 05/26/23 Analyzed: 05/27/23										

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: A5335045
Date Received: 05/25/23
Date Reported: 06/07/23

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 B3E2605 - *** DEFAULT PREP ***</i>										
Duplicate (B3E2605-DUP1) Continued Source: 3E25004-01 Prepared: 05/26/23 Analyzed: 05/27/23										
Benzene	0.435	0.25	ug/L		0.460			5.59	30	
Ethylbenzene	0.345	0.25	ug/L		0.375			8.33	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	0.250	0.25	ug/L		0.295			16.5	30	
o-Xylene	0.395	0.25	ug/L		0.335			16.4	30	
m,p-Xylenes	1.06	0.50	ug/L		1.02			3.86	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	42.4		ug/L	50.0		84.9	70-140			
<i>Surrogate: Dibromofluoromethane</i>	46.2		ug/L	50.0		92.4	70-140			
<i>Surrogate: Toluene-d8</i>	46.8		ug/L	50.0		93.7	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3E2521 - *** DEFAULT PREP ***</i>										
Blank (B3E2521-BLK1) Prepared & Analyzed: 05/25/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	44.6		ug/L	50.0		89.2	70-130			
LCS (B3E2521-BS1) Prepared & Analyzed: 05/25/23										
Gasoline Range Organics (GRO)	443	20	ug/L	500		88.5	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	50.9		ug/L	50.0		102	70-130			
LCS Dup (B3E2521-BSD1) Prepared & Analyzed: 05/25/23										
Gasoline Range Organics (GRO)	468	20	ug/L	500		93.6	75-125	5.57	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	54.2		ug/L	50.0		108	70-130			
Duplicate (B3E2521-DUP1) Source: 3E25004-01 Prepared & Analyzed: 05/25/23										
Gasoline Range Organics (GRO)	804	20	ug/L		898			11.0	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	53.5		ug/L	50.0		107	70-130			
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3E2521 - *** DEFAULT PREP ***</i>										
Blank (B3E2521-BLK1) Prepared & Analyzed: 05/25/23										
Total VOCs as Hexane	<4.9	4.9	ppmv							
Duplicate (B3E2521-DUP1) Source: 3E25004-01 Prepared & Analyzed: 05/25/23										

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: A5335045
Date Received: 05/25/23
Date Reported: 06/07/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3E2521 - *** DEFAULT PREP ***</i>										
Duplicate (B3E2521-DUP1) Continued Source: 3E25004-01 Prepared & Analyzed: 05/25/23										
Total VOCs as Hexane	132	4.9	ppmv		147			11.2	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: A5335045
Date Received: 05/25/23
Date Reported: 06/07/23

Special Notes

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

Viorel Vasile
Operations Manager



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

June 28, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5335061 / 3F08007**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 06/08/23 17:04 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 circular stamp.

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: A5335061
Date Received: 06/08/23
Date Reported: 06/28/23

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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VOCs BTEX/MTBE Vapor GC/MS

VES After GAC-1	3F08007-01	Vapor	5	06/08/23 08:27	06/08/23 17:04
VES After GAC-2	3F08007-02	Vapor	5	06/08/23 08:26	06/08/23 17:04

VOCs Gasoline Range Organics Vapor

VES After GAC-1	3F08007-01	Vapor	5	06/08/23 08:27	06/08/23 17:04
VES After GAC-2	3F08007-02	Vapor	5	06/08/23 08:26	06/08/23 17:04

VOCs in Vapor as Hexane

VES After GAC-1	3F08007-01	Vapor	5	06/08/23 08:27	06/08/23 17:04
VES After GAC-2	3F08007-02	Vapor	5	06/08/23 08:26	06/08/23 17:04

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: A5335061
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/08/23
Analyzed: 06/08/23

VES After GAC-1
3F08007-01 (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	106 %	70-140
Dibromofluoromethane	117 %	70-140
Toluene-d8	95.1 %	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: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335061
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/08/23
Analyzed: 06/08/23

VES After GAC-2
3F08007-02 (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	110 %	70-140
Dibromofluoromethane	119 %	70-140
Toluene-d8	93.7 %	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: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335061
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/09/23
Analyzed: 06/09/23

**VES After GAC-1
3F08007-01 (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		94.0 %			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: A5335061
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/09/23
Analyzed: 06/09/23

**VES After GAC-2
3F08007-02 (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		90.2 %			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: VOCs in Vapor as Hexane

AA Project No: A5335061
Date Received: 06/08/23
Date Reported: 06/28/23
Units: ppmv

Date Sampled:	06/08/23	06/08/23	
Date Prepared:	06/09/23	06/09/23	
Date Analyzed:	06/09/23	06/09/23	
AA ID No:	3F08007-01	3F08007-02	
Client ID No:	VES After GAC-1	VES After GAC-2	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	<4.9	<4.9	4.9
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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: A5335061
Date Received: 06/08/23
Date Reported: 06/28/23

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 B3F0820 - *** DEFAULT PREP ***</i>										
Blank (B3F0820-BLK1) Prepared & Analyzed: 06/08/23										
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>	51.3		ug/L	50.0		103	70-140			
<i>Surrogate: Dibromofluoromethane</i>	46.7		ug/L	50.0		93.5	70-140			
<i>Surrogate: Toluene-d8</i>	47.1		ug/L	50.0		94.2	70-140			
LCS (B3F0820-BS1) Prepared & Analyzed: 06/08/23										
Benzene	19.1	0.50	ug/L	20.0		95.4	75-125			
Ethylbenzene	19.5	0.50	ug/L	20.0		97.6	75-125			
Methyl-tert-Butyl Ether (MTBE)	42.4	2.0	ug/L	40.0		106	75-125			
Toluene	19.6	0.50	ug/L	20.0		97.8	75-125			
o-Xylene	21.2	0.50	ug/L	20.0		106	75-125			
m,p-Xylenes	42.3	1.0	ug/L	40.0		106	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	47.4		ug/L	50.0		94.8	70-140			
<i>Surrogate: Dibromofluoromethane</i>	44.3		ug/L	50.0		88.7	70-140			
<i>Surrogate: Toluene-d8</i>	46.1		ug/L	50.0		92.3	70-140			
LCS Dup (B3F0820-BSD1) Prepared: 06/08/23 Analyzed: 06/09/23										
Benzene	22.8	0.50	ug/L	20.0		114	75-125	17.5	30	
Ethylbenzene	19.9	0.50	ug/L	20.0		99.4	75-125	1.83	30	
Methyl-tert-Butyl Ether (MTBE)	44.4	2.0	ug/L	40.0		111	75-125	4.73	30	
Toluene	20.2	0.50	ug/L	20.0		101	75-125	3.27	30	
o-Xylene	21.7	0.50	ug/L	20.0		108	75-125	2.24	30	
m,p-Xylenes	42.8	1.0	ug/L	40.0		107	75-125	0.987	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	51.2		ug/L	50.0		102	70-140			
<i>Surrogate: Dibromofluoromethane</i>	49.8		ug/L	50.0		99.7	70-140			
<i>Surrogate: Toluene-d8</i>	42.9		ug/L	50.0		85.7	70-140			

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

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335061
Date Received: 06/08/23
Date Reported: 06/28/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3F0905 - *** DEFAULT PREP ***</i>										
Blank (B3F0905-BLK1)				Prepared & Analyzed: 06/09/23						
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>47.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.4</i>	<i>70-130</i>			
LCS (B3F0905-BS1)				Prepared & Analyzed: 06/09/23						
Gasoline Range Organics (GRO)	537	20	ug/L	500		107	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>57.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>114</i>	<i>70-130</i>			
LCS Dup (B3F0905-BSD1)				Prepared & Analyzed: 06/09/23						
Gasoline Range Organics (GRO)	465	20	ug/L	500		93.0	75-125	14.4	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>54.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>109</i>	<i>70-130</i>			
Duplicate (B3F0905-DUP1)				Source: 3F08006-02 Prepared & Analyzed: 06/09/23						
Gasoline Range Organics (GRO)	20.5	20	ug/L						30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>44.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>89.8</i>	<i>70-130</i>			

VOCs in Vapor as Hexane - Quality Control

*Batch B3F0905 - *** DEFAULT PREP ****

Blank (B3F0905-BLK1)				Prepared & Analyzed: 06/09/23						
Total VOCs as Hexane	<4.9	4.9	ppmv							
LCS (B3F0905-BS1)				Prepared: 06/09/23 Analyzed: 06/23/23						
Total VOCs as Hexane	ND	4.9	ppmv				75-125			
LCS Dup (B3F0905-BSD1)				Prepared: 06/09/23 Analyzed: 06/23/23						
Total VOCs as Hexane	ND	4.9	ppmv				75-125		30	
Duplicate (B3F0905-DUP1)				Source: 3F08006-02 Prepared & Analyzed: 06/09/23						
Total VOCs as Hexane	<4.9	4.9	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: A5335061
Date Received: 06/08/23
Date Reported: 06/28/23

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

June 28, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5335062 / 3F08008**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 06/08/23 17:04 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', written over a light blue circular stamp.

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: A5335062
Date Received: 06/08/23
Date Reported: 06/28/23

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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VOCs BTEX/MTBE Vapor GC/MS

VES Carbon-Influent	3F08008-01	Vapor	5	06/08/23 08:28	06/08/23 17:04
VES Carbon-Effluent	3F08008-02	Vapor	5	06/08/23 08:25	06/08/23 17:04

VOCs Gasoline Range Organics Vapor

VES Carbon-Influent	3F08008-01	Vapor	5	06/08/23 08:28	06/08/23 17:04
VES Carbon-Effluent	3F08008-02	Vapor	5	06/08/23 08:25	06/08/23 17:04

VOCs in Vapor as Hexane

VES Carbon-Influent	3F08008-01	Vapor	5	06/08/23 08:28	06/08/23 17:04
VES Carbon-Effluent	3F08008-02	Vapor	5	06/08/23 08:25	06/08/23 17:04

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: A5335062
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/08/23
Analyzed: 06/08/23

VES Carbon-Influent
3F08008-01 (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	109 %	70-140
Dibromofluoromethane	111 %	70-140
Toluene-d8	91.5 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335062
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/08/23
Analyzed: 06/08/23

VES Carbon-Effluent
3F08008-02 (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	108 %	70-140
Toluene-d8	94.8 %	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: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335062
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/09/23
Analyzed: 06/09/23

VES Carbon-Influent
3F08008-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	38	ug/L	20	9.3	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		81.2 %			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
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335062
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/09/23
Analyzed: 06/09/23

VES Carbon-Effluent

3F08008-02 (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		99.4 %			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: VOCs in Vapor as Hexane

AA Project No: A5335062
Date Received: 06/08/23
Date Reported: 06/28/23
Units: ppmv

Date Sampled:	06/08/23	06/08/23	
Date Prepared:	06/09/23	06/09/23	
Date Analyzed:	06/09/23	06/09/23	
AA ID No:	3F08008-01	3F08008-02	
Client ID No:	VES	VES	
	Carbon-Influent	Carbon-Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	6.2	<4.9	4.9
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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: A5335062
Date Received: 06/08/23
Date Reported: 06/28/23

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 B3F0820 - *** DEFAULT PREP ***</i>										
Blank (B3F0820-BLK1) Prepared & Analyzed: 06/08/23										
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>51.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>103</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>46.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>93.5</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>47.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.2</i>	<i>70-140</i>			
LCS (B3F0820-BS1) Prepared & Analyzed: 06/08/23										
Benzene	19.1	0.50	ug/L	20.0		95.4	75-125			
Ethylbenzene	19.5	0.50	ug/L	20.0		97.6	75-125			
Methyl-tert-Butyl Ether (MTBE)	42.4	2.0	ug/L	40.0		106	75-125			
Toluene	19.6	0.50	ug/L	20.0		97.8	75-125			
o-Xylene	21.2	0.50	ug/L	20.0		106	75-125			
m,p-Xylenes	42.3	1.0	ug/L	40.0		106	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.8</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>44.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>88.7</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>46.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>92.3</i>	<i>70-140</i>			
LCS Dup (B3F0820-BSD1) Prepared: 06/08/23 Analyzed: 06/09/23										
Benzene	22.8	0.50	ug/L	20.0		114	75-125	17.5	30	
Ethylbenzene	19.9	0.50	ug/L	20.0		99.4	75-125	1.83	30	
Methyl-tert-Butyl Ether (MTBE)	44.4	2.0	ug/L	40.0		111	75-125	4.73	30	
Toluene	20.2	0.50	ug/L	20.0		101	75-125	3.27	30	
o-Xylene	21.7	0.50	ug/L	20.0		108	75-125	2.24	30	
m,p-Xylenes	42.8	1.0	ug/L	40.0		107	75-125	0.987	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>51.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>102</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>49.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>99.7</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>42.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>85.7</i>	<i>70-140</i>			

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

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5335062
Date Received: 06/08/23
Date Reported: 06/28/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3F0905 - *** DEFAULT PREP ***</i>										
Blank (B3F0905-BLK1) Prepared & Analyzed: 06/09/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>47.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.4</i>	<i>70-130</i>			
LCS (B3F0905-BS1) Prepared & Analyzed: 06/09/23										
Gasoline Range Organics (GRO)	537	20	ug/L	500		107	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>57.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>114</i>	<i>70-130</i>			
LCS Dup (B3F0905-BSD1) Prepared & Analyzed: 06/09/23										
Gasoline Range Organics (GRO)	465	20	ug/L	500		93.0	75-125	14.4	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>54.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>109</i>	<i>70-130</i>			
Duplicate (B3F0905-DUP1) Source: 3F08006-02 Prepared & Analyzed: 06/09/23										
Gasoline Range Organics (GRO)	20.5	20	ug/L						30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>44.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>89.8</i>	<i>70-130</i>			

VOCs in Vapor as Hexane - Quality Control*Batch B3F0905 - *** DEFAULT PREP ****

Blank (B3F0905-BLK1) Prepared & Analyzed: 06/09/23										
Total VOCs as Hexane	<4.9	4.9	ppmv							
LCS (B3F0905-BS1) Prepared: 06/09/23 Analyzed: 06/23/23										
Total VOCs as Hexane	ND	4.9	ppmv				75-125			
LCS Dup (B3F0905-BSD1) Prepared: 06/09/23 Analyzed: 06/23/23										
Total VOCs as Hexane	ND	4.9	ppmv				75-125		30	
Duplicate (B3F0905-DUP1) Source: 3F08006-02 Prepared & Analyzed: 06/09/23										
Total VOCs as Hexane	<4.9	4.9	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: A5335062
Date Received: 06/08/23
Date Reported: 06/28/23

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 15, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5334992 / 3D19012**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 04/19/23 16:54 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 Analyticals.

Sincerely,

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

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: A5334992
Date Received: 04/19/23
Date Reported: 05/15/23

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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VOCs BTEX/MTBE Vapor GC/MS

VES Thermox-Influent	3D19012-01	Vapor	5	04/19/23 11:36	04/19/23 16:54
VES Thermox-Effluent	3D19012-02	Vapor	5	04/19/23 11:33	04/19/23 16:54

VOCs Gasoline Range Organics Vapor

VES Thermox-Influent	3D19012-01	Vapor	5	04/19/23 11:36	04/19/23 16:54
VES Thermox-Effluent	3D19012-02	Vapor	5	04/19/23 11:33	04/19/23 16:54

VOCs in Vapor as Hexane

VES Thermox-Influent	3D19012-01	Vapor	5	04/19/23 11:36	04/19/23 16:54
VES Thermox-Effluent	3D19012-02	Vapor	5	04/19/23 11:33	04/19/23 16:54

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: A5334992
Date Received: 04/19/23
Date Reported: 05/15/23
Sampled: 04/19/23
Prepared: 04/20/23
Analyzed: 04/20/23

VES Thermax-Influent
3D19012-01 (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	116 %	70-140
Dibromofluoromethane	102 %	70-140
Toluene-d8	110 %	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: A5334992
Date Received: 04/19/23
Date Reported: 05/15/23
Sampled: 04/19/23
Prepared: 04/20/23
Analyzed: 04/20/23

VES Thermax-Effluent
3D19012-02 (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	110 %	70-140
Dibromofluoromethane	103 %	70-140
Toluene-d8	108 %	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: A5334992
Date Received: 04/19/23
Date Reported: 05/15/23
Sampled: 04/19/23
Prepared: 04/21/23
Analyzed: 04/21/23

VES Thermax-Influent
3D19012-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	510	ug/L	20	120	ppmv	4.9
Surrogates		%REC				%REC Limits
a,a,a-Trifluorotoluene		110 %				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: A5334992
Date Received: 04/19/23
Date Reported: 05/15/23
Sampled: 04/19/23
Prepared: 04/21/23
Analyzed: 04/21/23

VES Thermax-Effluent
3D19012-02 (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		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
Method: VOCs in Vapor as Hexane

AA Project No: A5334992
Date Received: 04/19/23
Date Reported: 05/15/23
Units: ppmv

Date Sampled:	04/19/23	04/19/23	
Date Prepared:	04/21/23	04/21/23	
Date Analyzed:	04/21/23	04/21/23	
AA ID No:	3D19012-01	3D19012-02	
Client ID No:	VES	VES	
	Thermox-Influent	Thermox-Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	94	<4.9	4.9
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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: A5334992
Date Received: 04/19/23
Date Reported: 05/15/23

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 B3D2003 - *** DEFAULT PREP ***</i>										
Blank (B3D2003-BLK1) Prepared & Analyzed: 04/20/23										
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>	59.3		ug/L	50.0		119	70-140			
<i>Surrogate: Dibromofluoromethane</i>	48.5		ug/L	50.0		96.9	70-140			
<i>Surrogate: Toluene-d8</i>	56.6		ug/L	50.0		113	70-140			
LCS (B3D2003-BS1) Prepared & Analyzed: 04/20/23										
Benzene	19.1	0.50	ug/L	20.0		95.4	75-125			
Ethylbenzene	22.6	0.50	ug/L	20.0		113	75-125			
Methyl-tert-Butyl Ether (MTBE)	33.1	2.0	ug/L	40.0		82.7	75-125			
Toluene	23.3	0.50	ug/L	20.0		116	75-125			
o-Xylene	21.0	0.50	ug/L	20.0		105	75-125			
m,p-Xylenes	42.6	1.0	ug/L	40.0		107	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	53.1		ug/L	50.0		106	70-140			
<i>Surrogate: Dibromofluoromethane</i>	48.2		ug/L	50.0		96.4	70-140			
<i>Surrogate: Toluene-d8</i>	54.4		ug/L	50.0		109	70-140			
LCS Dup (B3D2003-BSD1) Prepared & Analyzed: 04/20/23										
Benzene	18.0	0.50	ug/L	20.0		90.2	75-125	5.50	30	
Ethylbenzene	22.3	0.50	ug/L	20.0		111	75-125	1.60	30	
Methyl-tert-Butyl Ether (MTBE)	37.6	2.0	ug/L	40.0		94.1	75-125	12.9	30	
Toluene	21.5	0.50	ug/L	20.0		108	75-125	7.76	30	
o-Xylene	22.9	0.50	ug/L	20.0		115	75-125	8.97	30	
m,p-Xylenes	45.9	1.0	ug/L	40.0		115	75-125	7.50	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	52.1		ug/L	50.0		104	70-140			
<i>Surrogate: Dibromofluoromethane</i>	50.4		ug/L	50.0		101	70-140			
<i>Surrogate: Toluene-d8</i>	51.5		ug/L	50.0		103	70-140			
Duplicate (B3D2003-DUP1) Source: 3D19012-01 Prepared & Analyzed: 04/20/23										

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: A5334992
Date Received: 04/19/23
Date Reported: 05/15/23

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 B3D2003 - *** DEFAULT PREP ***

Duplicate (B3D2003-DUP1) Continued Source: 3D19012-01 Prepared & Analyzed: 04/20/23

Benzene	<0.25	0.25	ug/L		0.120			13.3	30	
Ethylbenzene	<0.25	0.25	ug/L		0.150			28.6	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L		<1.0				30	
Toluene	<0.25	0.25	ug/L		<0.25				30	
o-Xylene	<0.25	0.25	ug/L		<0.25				30	
m,p-Xylenes	0.505	0.50	ug/L		0.375			29.5	30	
Surrogate: 4-Bromofluorobenzene	57.7		ug/L	50.0		115	70-140			
Surrogate: Dibromofluoromethane	63.9		ug/L	50.0		128	70-140			
Surrogate: Toluene-d8	53.0		ug/L	50.0		106	70-140			

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

Batch B3D2103 - *** DEFAULT PREP ***

Blank (B3D2103-BLK1) Prepared & Analyzed: 04/21/23

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	48.8		ug/L	50.0		97.5	70-130			

LCS (B3D2103-BS1) Prepared & Analyzed: 04/21/23

Gasoline Range Organics (GRO)	520	20	ug/L	500		104	75-125			
Surrogate: a,a,a-Trifluorotoluene	59.1		ug/L	50.0		118	70-130			

LCS Dup (B3D2103-BSD1) Prepared & Analyzed: 04/21/23

Gasoline Range Organics (GRO)	493	20	ug/L	500		98.5	75-125	5.47	30	
Surrogate: a,a,a-Trifluorotoluene	61.9		ug/L	50.0		124	70-130			

Duplicate (B3D2103-DUP1) Source: 3D19013-01 Prepared & Analyzed: 04/21/23

Gasoline Range Organics (GRO)	66.4	20	ug/L		87.7			27.7	30	
Surrogate: a,a,a-Trifluorotoluene	52.0		ug/L	50.0		104	70-130			

VOCs in Vapor as Hexane - Quality Control

Batch B3D2103 - *** DEFAULT PREP ***

Blank (B3D2103-BLK1) Prepared & Analyzed: 04/21/23

Total VOCs as Hexane	<4.9	4.9	ppmv							
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Duplicate (B3D2103-DUP1) Source: 3D19013-01 Prepared & Analyzed: 04/21/23

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: A5334992
Date Received: 04/19/23
Date Reported: 05/15/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3D2103 - *** DEFAULT PREP ***</i>										
Duplicate (B3D2103-DUP1) Continued Source: 3D19013-01 Prepared & Analyzed: 04/21/23										
Total VOCs as Hexane	12.2	4.9	ppmv		16.2			28.4	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: A5334992
Date Received: 04/19/23
Date Reported: 05/15/23

Special Notes

A handwritten signature in black ink, appearing to read 'Viorel Vasile', is positioned above a horizontal line.

Viorel Vasile
Operations Manager



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

June 07, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5335043 / 3E25004**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 05/25/23 17:35 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', written over a light blue circular stamp.

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: A5335043
Date Received: 05/25/23
Date Reported: 06/07/23

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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VOCs BTEX/MTBE Vapor GC/MS

VES Thermox-Influent	3E25004-01	Vapor	5	05/25/23 10:20	05/25/23 17:35
VES Thermox-Effluent	3E25004-02	Vapor	5	05/25/23 10:22	05/25/23 17:35

VOCs Gasoline Range Organics Vapor

VES Thermox-Influent	3E25004-01	Vapor	5	05/25/23 10:20	05/25/23 17:35
VES Thermox-Effluent	3E25004-02	Vapor	5	05/25/23 10:22	05/25/23 17:35

VOCs in Vapor as Hexane

VES Thermox-Influent	3E25004-01	Vapor	5	05/25/23 10:20	05/25/23 17:35
VES Thermox-Effluent	3E25004-02	Vapor	5	05/25/23 10:22	05/25/23 17:35

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: A5335043
Date Received: 05/25/23
Date Reported: 06/07/23
Sampled: 05/25/23
Prepared: 05/26/23
Analyzed: 05/26/23

VES Thermax-Influent
3E25004-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	0.46	ug/L	0.50	0.14	ppmv	0.16
Ethylbenzene	0.38	ug/L	0.50	0.088	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<1.0	ug/L	2.0	<0.28	ppmv	0.55
Toluene	0.30	ug/L	0.50	0.080	ppmv	0.13
o-Xylene	0.34	ug/L	0.50	0.078	ppmv	0.12
m,p-Xylenes	1.0	ug/L	1.0	0.23	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	88.0 %	70-140
Dibromofluoromethane	98.6 %	70-140
Toluene-d8	92.1 %	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: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335043
Date Received: 05/25/23
Date Reported: 06/07/23
Sampled: 05/25/23
Prepared: 05/26/23
Analyzed: 05/26/23

VES Thermax-Effluent
3E25004-02 (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	85.2 %	70-140
Dibromofluoromethane	85.8 %	70-140
Toluene-d8	93.1 %	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: A5335043
Date Received: 05/25/23
Date Reported: 06/07/23
Sampled: 05/25/23
Prepared: 05/25/23
Analyzed: 05/25/23

VES Thermax-Influent
3E25004-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	900	ug/L	20	220	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		117 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335043
Date Received: 05/25/23
Date Reported: 06/07/23
Sampled: 05/25/23
Prepared: 05/25/23
Analyzed: 05/25/23

VES Thermax-Effluent
3E25004-02 (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		97.3 %			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: VOCs in Vapor as Hexane

AA Project No: A5335043
Date Received: 05/25/23
Date Reported: 06/07/23
Units: ppmv

Date Sampled:	05/25/23	05/25/23	
Date Prepared:	05/25/23	05/25/23	
Date Analyzed:	05/25/23	05/25/23	
AA ID No:	3E25004-01	3E25004-02	
Client ID No:	VES	VES	
	Thermox-Influent	Thermox-Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	150	<4.9	4.9
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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: A5335043
Date Received: 05/25/23
Date Reported: 06/07/23

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 B3E2605 - *** DEFAULT PREP ***</i>										
Blank (B3E2605-BLK1) Prepared & Analyzed: 05/26/23										
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>	44.1		ug/L	50.0		88.1	70-140			
<i>Surrogate: Dibromofluoromethane</i>	39.7		ug/L	50.0		79.4	70-140			
<i>Surrogate: Toluene-d8</i>	49.6		ug/L	50.0		99.1	70-140			
LCS (B3E2605-BS1) Prepared & Analyzed: 05/26/23										
Benzene	17.1	0.50	ug/L	20.0		85.4	75-125			
Ethylbenzene	20.7	0.50	ug/L	20.0		104	75-125			
Methyl-tert-Butyl Ether (MTBE)	33.8	2.0	ug/L	40.0		84.6	75-125			
Toluene	20.5	0.50	ug/L	20.0		103	75-125			
o-Xylene	21.5	0.50	ug/L	20.0		107	75-125			
m,p-Xylenes	43.1	1.0	ug/L	40.0		108	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	44.5		ug/L	50.0		89.0	70-140			
<i>Surrogate: Dibromofluoromethane</i>	41.1		ug/L	50.0		82.2	70-140			
<i>Surrogate: Toluene-d8</i>	45.5		ug/L	50.0		91.1	70-140			
LCS Dup (B3E2605-BSD1) Prepared & Analyzed: 05/26/23										
Benzene	17.2	0.50	ug/L	20.0		85.8	75-125	0.526	30	
Ethylbenzene	19.6	0.50	ug/L	20.0		97.8	75-125	5.76	30	
Methyl-tert-Butyl Ether (MTBE)	39.7	2.0	ug/L	40.0		99.3	75-125	16.0	30	
Toluene	19.8	0.50	ug/L	20.0		99.2	75-125	3.42	30	
o-Xylene	21.4	0.50	ug/L	20.0		107	75-125	0.607	30	
m,p-Xylenes	41.5	1.0	ug/L	40.0		104	75-125	3.69	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	43.6		ug/L	50.0		87.1	70-140			
<i>Surrogate: Dibromofluoromethane</i>	42.8		ug/L	50.0		85.6	70-140			
<i>Surrogate: Toluene-d8</i>	45.5		ug/L	50.0		91.0	70-140			
Duplicate (B3E2605-DUP1) Source: 3E25004-01 Prepared: 05/26/23 Analyzed: 05/27/23										

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: A5335043
Date Received: 05/25/23
Date Reported: 06/07/23

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 B3E2605 - *** DEFAULT PREP ***</i>										
Duplicate (B3E2605-DUP1) Continued Source: 3E25004-01 Prepared: 05/26/23 Analyzed: 05/27/23										
Benzene	0.435	0.25	ug/L		0.460			5.59	30	
Ethylbenzene	0.345	0.25	ug/L		0.375			8.33	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L		<1.0				30	
Toluene	0.250	0.25	ug/L		0.295			16.5	30	
o-Xylene	0.395	0.25	ug/L		0.335			16.4	30	
m,p-Xylenes	1.06	0.50	ug/L		1.02			3.86	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	42.4		ug/L	50.0		84.9	70-140			
<i>Surrogate: Dibromofluoromethane</i>	46.2		ug/L	50.0		92.4	70-140			
<i>Surrogate: Toluene-d8</i>	46.8		ug/L	50.0		93.7	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3E2521 - *** DEFAULT PREP ***</i>										
Blank (B3E2521-BLK1) Prepared & Analyzed: 05/25/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	44.6		ug/L	50.0		89.2	70-130			
LCS (B3E2521-BS1) Prepared & Analyzed: 05/25/23										
Gasoline Range Organics (GRO)	443	20	ug/L	500		88.5	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	50.9		ug/L	50.0		102	70-130			
LCS Dup (B3E2521-BSD1) Prepared & Analyzed: 05/25/23										
Gasoline Range Organics (GRO)	468	20	ug/L	500		93.6	75-125	5.57	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	54.2		ug/L	50.0		108	70-130			
Duplicate (B3E2521-DUP1) Source: 3E25004-01 Prepared & Analyzed: 05/25/23										
Gasoline Range Organics (GRO)	804	20	ug/L		898			11.0	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	53.5		ug/L	50.0		107	70-130			
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3E2521 - *** DEFAULT PREP ***</i>										
Blank (B3E2521-BLK1) Prepared & Analyzed: 05/25/23										
Total VOCs as Hexane	<4.9	4.9	ppmv							
Duplicate (B3E2521-DUP1) Source: 3E25004-01 Prepared & Analyzed: 05/25/23										

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: A5335043
Date Received: 05/25/23
Date Reported: 06/07/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3E2521 - *** DEFAULT PREP ***</i>										
Duplicate (B3E2521-DUP1) Continued Source: 3E25004-01 Prepared & Analyzed: 05/25/23										
Total VOCs as Hexane	132	4.9	ppmv		147			11.2	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: A5335043
Date Received: 05/25/23
Date Reported: 06/07/23

Special Notes

A handwritten signature in black ink, appearing to read 'V. Vasile', is positioned above a horizontal line.

Viorel Vasile
Operations Manager



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

June 28, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5335060 / 3F08006**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 06/08/23 17:04 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', written over a light blue circular stamp.

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: A5335060
Date Received: 06/08/23
Date Reported: 06/28/23

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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VOCs BTEX/MTBE Vapor GC/MS

VES Thermox-Influent	3F08006-01	Vapor	5	06/08/23 08:59	06/08/23 17:04
VES Thermox-Effluent	3F08006-02	Vapor	5	06/08/23 08:52	06/08/23 17:04

VOCs Gasoline Range Organics Vapor

VES Thermox-Influent	3F08006-01	Vapor	5	06/08/23 08:59	06/08/23 17:04
VES Thermox-Effluent	3F08006-02	Vapor	5	06/08/23 08:52	06/08/23 17:04

VOCs in Vapor as Hexane

VES Thermox-Influent	3F08006-01	Vapor	5	06/08/23 08:59	06/08/23 17:04
VES Thermox-Effluent	3F08006-02	Vapor	5	06/08/23 08:52	06/08/23 17:04

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: A5335060
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/08/23
Analyzed: 06/08/23

VES Thermax-Influent
3F08006-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	<0.25	ug/L	0.50	<0.078	ppmv	0.16
Ethylbenzene	0.26	ug/L	0.50	0.060	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	0.30	ug/L	0.50	0.069	ppmv	0.12
m,p-Xylenes	0.76	ug/L	1.0	0.18	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	103 %	70-140
Dibromofluoromethane	113 %	70-140
Toluene-d8	90.7 %	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: A5335060
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/08/23
Analyzed: 06/08/23

VES Thermax-Effluent
3F08006-02 (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	114 %	70-140
Toluene-d8	88.2 %	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: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335060
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/09/23
Analyzed: 06/09/23

VES Thermax-Influent
3F08006-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	670	ug/L	20	160	ppmv	4.9
Surrogates		%REC			%REC Limits	
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
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335060
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/09/23
Analyzed: 06/09/23

VES Thermax-Effluent

3F08006-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		91.8 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335060
Date Received: 06/08/23
Date Reported: 06/28/23
Units: ppmv

Date Sampled:	06/08/23	06/08/23	
Date Prepared:	06/09/23	06/09/23	
Date Analyzed:	06/09/23	06/09/23	
AA ID No:	3F08006-01	3F08006-02	
Client ID No:	VES	VES	
	Thermox-Influent	Thermox-Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	110	<4.9	4.9
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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: A5335060
Date Received: 06/08/23
Date Reported: 06/28/23

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 B3F0820 - *** DEFAULT PREP ***</i>										
Blank (B3F0820-BLK1) Prepared & Analyzed: 06/08/23										
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>	51.3		ug/L	50.0		103	70-140			
<i>Surrogate: Dibromofluoromethane</i>	46.7		ug/L	50.0		93.5	70-140			
<i>Surrogate: Toluene-d8</i>	47.1		ug/L	50.0		94.2	70-140			
LCS (B3F0820-BS1) Prepared & Analyzed: 06/08/23										
Benzene	19.1	0.50	ug/L	20.0		95.4	75-125			
Ethylbenzene	19.5	0.50	ug/L	20.0		97.6	75-125			
Methyl-tert-Butyl Ether (MTBE)	42.4	2.0	ug/L	40.0		106	75-125			
Toluene	19.6	0.50	ug/L	20.0		97.8	75-125			
o-Xylene	21.2	0.50	ug/L	20.0		106	75-125			
m,p-Xylenes	42.3	1.0	ug/L	40.0		106	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	47.4		ug/L	50.0		94.8	70-140			
<i>Surrogate: Dibromofluoromethane</i>	44.3		ug/L	50.0		88.7	70-140			
<i>Surrogate: Toluene-d8</i>	46.1		ug/L	50.0		92.3	70-140			
LCS Dup (B3F0820-BSD1) Prepared: 06/08/23 Analyzed: 06/09/23										
Benzene	22.8	0.50	ug/L	20.0		114	75-125	17.5	30	
Ethylbenzene	19.9	0.50	ug/L	20.0		99.4	75-125	1.83	30	
Methyl-tert-Butyl Ether (MTBE)	44.4	2.0	ug/L	40.0		111	75-125	4.73	30	
Toluene	20.2	0.50	ug/L	20.0		101	75-125	3.27	30	
o-Xylene	21.7	0.50	ug/L	20.0		108	75-125	2.24	30	
m,p-Xylenes	42.8	1.0	ug/L	40.0		107	75-125	0.987	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	51.2		ug/L	50.0		102	70-140			
<i>Surrogate: Dibromofluoromethane</i>	49.8		ug/L	50.0		99.7	70-140			
<i>Surrogate: Toluene-d8</i>	42.9		ug/L	50.0		85.7	70-140			

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

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335060
Date Received: 06/08/23
Date Reported: 06/28/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3F0905 - *** DEFAULT PREP ***</i>										
Blank (B3F0905-BLK1) Prepared & Analyzed: 06/09/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>47.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.4</i>	<i>70-130</i>			
LCS (B3F0905-BS1) Prepared & Analyzed: 06/09/23										
Gasoline Range Organics (GRO)	537	20	ug/L	500		107	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>57.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>114</i>	<i>70-130</i>			
LCS Dup (B3F0905-BSD1) Prepared & Analyzed: 06/09/23										
Gasoline Range Organics (GRO)	465	20	ug/L	500		93.0	75-125	14.4	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>54.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>109</i>	<i>70-130</i>			
Duplicate (B3F0905-DUP1) Source: 3F08006-02 Prepared & Analyzed: 06/09/23										
Gasoline Range Organics (GRO)	20.5	20	ug/L			<20			30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>44.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>89.8</i>	<i>70-130</i>			

VOCs in Vapor as Hexane - Quality Control

*Batch B3F0905 - *** DEFAULT PREP ****

Blank (B3F0905-BLK1) Prepared & Analyzed: 06/09/23										
Total VOCs as Hexane	<4.9	4.9	ppmv							
LCS (B3F0905-BS1) Prepared: 06/09/23 Analyzed: 06/23/23										
Total VOCs as Hexane	ND	4.9	ppmv				75-125			
LCS Dup (B3F0905-BSD1) Prepared: 06/09/23 Analyzed: 06/23/23										
Total VOCs as Hexane	ND	4.9	ppmv				75-125		30	
Duplicate (B3F0905-DUP1) Source: 3F08006-02 Prepared & Analyzed: 06/09/23										
Total VOCs as Hexane	<4.9	4.9	ppmv			<4.9			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: A5335060
Date Received: 06/08/23
Date Reported: 06/28/23

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

June 28, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5335059 / 3F08005**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 06/08/23 17:04 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 Analyticals.

Sincerely,

A handwritten signature in black ink, appearing to read 'V. Vasile', written over a light blue circular stamp.

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: A5335059
Date Received: 06/08/23
Date Reported: 06/28/23

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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VOCs BTEX/MTBE Vapor GC/MS

Trunkline#1 (East)	3F08005-01	Vapor	5	06/08/23 09:48	06/08/23 17:04
Trunkline#2 (South)	3F08005-02	Vapor	5	06/08/23 09:45	06/08/23 17:04
Trunkline#3 (Central S)	3F08005-03	Vapor	5	06/08/23 09:42	06/08/23 17:04
Trunkline#4 (Central E)	3F08005-04	Vapor	5	06/08/23 09:44	06/08/23 17:04
Trunkline#5 (Central W)	3F08005-05	Vapor	5	06/08/23 09:39	06/08/23 17:04

VOCs Gasoline Range Organics Vapor

Trunkline#1 (East)	3F08005-01	Vapor	5	06/08/23 09:48	06/08/23 17:04
Trunkline#2 (South)	3F08005-02	Vapor	5	06/08/23 09:45	06/08/23 17:04
Trunkline#3 (Central S)	3F08005-03	Vapor	5	06/08/23 09:42	06/08/23 17:04
Trunkline#4 (Central E)	3F08005-04	Vapor	5	06/08/23 09:44	06/08/23 17:04
Trunkline#5 (Central W)	3F08005-05	Vapor	5	06/08/23 09:39	06/08/23 17:04

VOCs in Vapor as Hexane

Trunkline#1 (East)	3F08005-01	Vapor	5	06/08/23 09:48	06/08/23 17:04
Trunkline#2 (South)	3F08005-02	Vapor	5	06/08/23 09:45	06/08/23 17:04
Trunkline#3 (Central S)	3F08005-03	Vapor	5	06/08/23 09:42	06/08/23 17:04
Trunkline#4 (Central E)	3F08005-04	Vapor	5	06/08/23 09:44	06/08/23 17:04
Trunkline#5 (Central W)	3F08005-05	Vapor	5	06/08/23 09:39	06/08/23 17:04

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: A5335059
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/08/23
Analyzed: 06/09/23

Trunkline#1 (East)
3F08005-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	0.53	ug/L	0.50	0.17	ppmv	0.16
Ethylbenzene	0.83	ug/L	0.50	0.19	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<1.0	ug/L	2.0	<0.28	ppmv	0.55
Toluene	0.34	ug/L	0.50	0.090	ppmv	0.13
o-Xylene	0.28	ug/L	0.50	0.064	ppmv	0.12
m,p-Xylenes	1.3	ug/L	1.0	0.30	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	99.9 %	70-140
Dibromofluoromethane	114 %	70-140
Toluene-d8	89.3 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335059
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/08/23
Analyzed: 06/09/23

Trunkline#2 (South)

3F08005-02 (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	100 %	70-140
Dibromofluoromethane	109 %	70-140
Toluene-d8	90.5 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335059
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/08/23
Analyzed: 06/09/23

Trunkline#3 (Central S)

3F08005-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	0.46	ug/L	0.50	0.14	ppmv	0.16
Ethylbenzene	0.26	ug/L	0.50	0.060	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	0.64	ug/L	1.0	0.15	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	96.9 %	70-140
Dibromofluoromethane	103 %	70-140
Toluene-d8	86.4 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335059
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/08/23
Analyzed: 06/09/23

Trunkline#4 (Central E)

3F08005-04 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	1.0	ug/L	0.50	0.31	ppmv	0.16
Ethylbenzene	1.1	ug/L	0.50	0.25	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<1.0	ug/L	2.0	<0.28	ppmv	0.55
Toluene	1.1	ug/L	0.50	0.29	ppmv	0.13
o-Xylene	1.9	ug/L	0.50	0.44	ppmv	0.12
m,p-Xylenes	4.8	ug/L	1.0	1.1	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	99.4 %	70-140
Dibromofluoromethane	100 %	70-140
Toluene-d8	87.9 %	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: A5335059
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/08/23
Analyzed: 06/09/23

Trunkline#5 (Central W)

3F08005-05 (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	102 %	70-140
Dibromofluoromethane	96.2 %	70-140
Toluene-d8	88.4 %	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: A5335059
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/09/23
Analyzed: 06/09/23

Trunkline#1 (East)

3F08005-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	880	ug/L	20	220	ppmv	4.9

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
a,a,a-Trifluorotoluene	116 %	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: A5335059
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/09/23
Analyzed: 06/09/23

Trunkline#2 (South)

3F08005-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	550	ug/L	20	130	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: 2
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335059
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/09/23
Analyzed: 06/09/23

Trunkline#3 (Central S)

3F08005-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	960	ug/L	20	230	ppmv	4.9
<u>Surrogates</u>						
a,a,a-Trifluorotoluene		<u>%REC</u>				<u>%REC Limits</u>
		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: A5335059

Date Received: 06/08/23

Date Reported: 06/28/23

Sampled: 06/08/23

Prepared: 06/09/23

Analyzed: 06/09/23

Trunkline#4 (Central E)

3F08005-04 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	2000	ug/L	20	490	ppmv	4.9
<u>Surrogates</u>						
a,a,a-Trifluorotoluene		<u>%REC</u>				<u>%REC Limits</u>
		129 %				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: 2
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335059
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/09/23
Analyzed: 06/09/23

Trunkline#5 (Central W)

3F08005-05 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	360	ug/L	20	88	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		108 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335059
Date Received: 06/08/23
Date Reported: 06/28/23
Units: ppmv

Date Sampled:	06/08/23	06/08/23	06/08/23	06/08/23	
Date Prepared:	06/09/23	06/09/23	06/09/23	06/09/23	
Date Analyzed:	06/09/23	06/09/23	06/09/23	06/09/23	
AA ID No:	3F08005-01	3F08005-02	3F08005-03	3F08005-04	
Client ID No:	Trunkline#1 (East)	Trunkline#2 (South)	Trunkline#3 (Central S)	Trunkline#4 (Central E)	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	2	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	150	90	160	330	4.9
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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: VOCs in Vapor as Hexane

AA Project No: A5335059
Date Received: 06/08/23
Date Reported: 06/28/23
Units: ppmv

Date Sampled:	06/08/23	
Date Prepared:	06/09/23	
Date Analyzed:	06/09/23	
AA ID No:	3F08005-05	
Client ID No:	Trunkline#5 (Central W)	
Matrix:	Vapor	
Dilution Factor:	2	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	59	4.9
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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: A5335059
Date Received: 06/08/23
Date Reported: 06/28/23

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 B3F0820 - *** DEFAULT PREP ***</i>										
Blank (B3F0820-BLK1) Prepared & Analyzed: 06/08/23										
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>	51.3		ug/L	50.0		103	70-140			
<i>Surrogate: Dibromofluoromethane</i>	46.7		ug/L	50.0		93.5	70-140			
<i>Surrogate: Toluene-d8</i>	47.1		ug/L	50.0		94.2	70-140			
LCS (B3F0820-BS1) Prepared & Analyzed: 06/08/23										
Benzene	19.1	0.50	ug/L	20.0		95.4	75-125			
Ethylbenzene	19.5	0.50	ug/L	20.0		97.6	75-125			
Methyl-tert-Butyl Ether (MTBE)	42.4	2.0	ug/L	40.0		106	75-125			
Toluene	19.6	0.50	ug/L	20.0		97.8	75-125			
o-Xylene	21.2	0.50	ug/L	20.0		106	75-125			
m,p-Xylenes	42.3	1.0	ug/L	40.0		106	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	47.4		ug/L	50.0		94.8	70-140			
<i>Surrogate: Dibromofluoromethane</i>	44.3		ug/L	50.0		88.7	70-140			
<i>Surrogate: Toluene-d8</i>	46.1		ug/L	50.0		92.3	70-140			
LCS Dup (B3F0820-BSD1) Prepared: 06/08/23 Analyzed: 06/09/23										
Benzene	22.8	0.50	ug/L	20.0		114	75-125	17.5	30	
Ethylbenzene	19.9	0.50	ug/L	20.0		99.4	75-125	1.83	30	
Methyl-tert-Butyl Ether (MTBE)	44.4	2.0	ug/L	40.0		111	75-125	4.73	30	
Toluene	20.2	0.50	ug/L	20.0		101	75-125	3.27	30	
o-Xylene	21.7	0.50	ug/L	20.0		108	75-125	2.24	30	
m,p-Xylenes	42.8	1.0	ug/L	40.0		107	75-125	0.987	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	51.2		ug/L	50.0		102	70-140			
<i>Surrogate: Dibromofluoromethane</i>	49.8		ug/L	50.0		99.7	70-140			
<i>Surrogate: Toluene-d8</i>	42.9		ug/L	50.0		85.7	70-140			

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

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5335059
Date Received: 06/08/23
Date Reported: 06/28/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3F0905 - *** DEFAULT PREP ***</i>										
Blank (B3F0905-BLK1)				Prepared & Analyzed: 06/09/23						
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>47.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.4</i>	<i>70-130</i>			
LCS (B3F0905-BS1)				Prepared & Analyzed: 06/09/23						
Gasoline Range Organics (GRO)	537	20	ug/L	500		107	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>57.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>114</i>	<i>70-130</i>			
LCS Dup (B3F0905-BSD1)				Prepared & Analyzed: 06/09/23						
Gasoline Range Organics (GRO)	465	20	ug/L	500		93.0	75-125	14.4	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>54.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>109</i>	<i>70-130</i>			
Duplicate (B3F0905-DUP1)				Source: 3F08006-02 Prepared & Analyzed: 06/09/23						
Gasoline Range Organics (GRO)	20.5	20	ug/L						30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>44.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>89.8</i>	<i>70-130</i>			
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3F0905 - *** DEFAULT PREP ***</i>										
Blank (B3F0905-BLK1)				Prepared & Analyzed: 06/09/23						
Total VOCs as Hexane	<4.9	4.9	ppmv							
LCS (B3F0905-BS1)				Prepared: 06/09/23 Analyzed: 06/23/23						
Total VOCs as Hexane	ND	4.9	ppmv				75-125			
LCS Dup (B3F0905-BSD1)				Prepared: 06/09/23 Analyzed: 06/23/23						
Total VOCs as Hexane	ND	4.9	ppmv				75-125		30	
Duplicate (B3F0905-DUP1)				Source: 3F08006-02 Prepared & Analyzed: 06/09/23						
Total VOCs as Hexane	<4.9	4.9	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: A5335059
Date Received: 06/08/23
Date Reported: 06/28/23

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

June 28, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5335063 / 3F08009**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 06/08/23 17:04 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', written over a light blue circular stamp.

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: A5335063
Date Received: 06/08/23
Date Reported: 06/28/23

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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VOCs BTEX/MTBE Vapor GC/MS

HW-1	3F08009-01	Vapor	5	06/08/23 10:12	06/08/23 17:04
HW-5	3F08009-02	Vapor	5	06/08/23 10:17	06/08/23 17:04
HW-7	3F08009-03	Vapor	5	06/08/23 10:18	06/08/23 17:04
HW-8	3F08009-04	Vapor	5	06/08/23 11:14	06/08/23 17:04
HW-9	3F08009-05	Vapor	5	06/08/23 10:14	06/08/23 17:04

VOCs Gasoline Range Organics Vapor

HW-1	3F08009-01	Vapor	5	06/08/23 10:12	06/08/23 17:04
HW-5	3F08009-02	Vapor	5	06/08/23 10:17	06/08/23 17:04
HW-7	3F08009-03	Vapor	5	06/08/23 10:18	06/08/23 17:04
HW-8	3F08009-04	Vapor	5	06/08/23 11:14	06/08/23 17:04
HW-9	3F08009-05	Vapor	5	06/08/23 10:14	06/08/23 17:04

VOCs in Vapor as Hexane

HW-1	3F08009-01	Vapor	5	06/08/23 10:12	06/08/23 17:04
HW-5	3F08009-02	Vapor	5	06/08/23 10:17	06/08/23 17:04
HW-7	3F08009-03	Vapor	5	06/08/23 10:18	06/08/23 17:04
HW-8	3F08009-04	Vapor	5	06/08/23 11:14	06/08/23 17:04
HW-9	3F08009-05	Vapor	5	06/08/23 10:14	06/08/23 17:04

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:** A5335063**Date Received:** 06/08/23**Date Reported:** 06/28/23**Sampled:** 06/08/23**Prepared:** 06/09/23**Analyzed:** 06/09/23

HW-1

3F08009-01 (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

101 %

70-140

Dibromofluoromethane

101 %

70-140

Toluene-d8

88.8 %

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:** A5335063**Date Received:** 06/08/23**Date Reported:** 06/28/23**Sampled:** 06/08/23**Prepared:** 06/09/23**Analyzed:** 06/09/23**HW-5****3F08009-02 (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

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

4-Bromofluorobenzene

106 %

70-140

Dibromofluoromethane

105 %

70-140

Toluene-d8

94.1 %

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: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335063
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/09/23
Analyzed: 06/09/23

HW-7

3F08009-03 (Vapor)

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

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	106 %	70-140
Dibromofluoromethane	115 %	70-140
Toluene-d8	92.2 %	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: A5335063
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/09/23
Analyzed: 06/09/23

HW-8
3F08009-04 (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

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	105 %	70-140
Dibromofluoromethane	118 %	70-140
Toluene-d8	84.7 %	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: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335063
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/09/23
Analyzed: 06/09/23

HW-9

3F08009-05 (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	112 %	70-140
Dibromofluoromethane	108 %	70-140
Toluene-d8	89.7 %	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: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335063
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/09/23
Analyzed: 06/09/23

HW-1

3F08009-01 (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		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: A5335063
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/09/23
Analyzed: 06/09/23

HW-5

3F08009-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
Surrogates		%REC				%REC Limits
a,a,a-Trifluorotoluene		95.6 %				70-130

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)

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: A5335063

Date Received: 06/08/23

Date Reported: 06/28/23

Sampled: 06/08/23

Prepared: 06/09/23

Analyzed: 06/09/23

HW-7

3F08009-03 (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		97.1 %			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
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335063
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/09/23
Analyzed: 06/09/23

HW-8

3F08009-04 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	390	ug/L	20	95	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: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335063
Date Received: 06/08/23
Date Reported: 06/28/23
Sampled: 06/08/23
Prepared: 06/09/23
Analyzed: 06/09/23

HW-9

3F08009-05 (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		94.2 %				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: VOCs in Vapor as Hexane

AA Project No: A5335063
Date Received: 06/08/23
Date Reported: 06/28/23
Units: ppmv

Date Sampled:	06/08/23	06/08/23	06/08/23	06/08/23	
Date Prepared:	06/09/23	06/09/23	06/09/23	06/09/23	
Date Analyzed:	06/09/23	06/09/23	06/09/23	06/09/23	
AA ID No:	3F08009-01	3F08009-02	3F08009-03	3F08009-04	
Client ID No:	HW-1	HW-5	HW-7	HW-8	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	<4.9	<4.9	<4.9	66	4.9
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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: VOCs in Vapor as Hexane

AA Project No: A5335063
Date Received: 06/08/23
Date Reported: 06/28/23
Units: ppmv

Date Sampled:	06/08/23	
Date Prepared:	06/09/23	
Date Analyzed:	06/09/23	
AA ID No:	3F08009-05	
Client ID No:	HW-9	
Matrix:	Vapor	
Dilution Factor:	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	<4.9	4.9
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A handwritten signature in black ink, appearing to read 'Viorel 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: A5335063
Date Received: 06/08/23
Date Reported: 06/28/23

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 B3F0906 - *** DEFAULT PREP ***</i>										
Blank (B3F0906-BLK1) Prepared & Analyzed: 06/09/23										
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>54.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>109</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>46.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>92.0</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>96.5</i>	<i>70-140</i>			
LCS (B3F0906-BS1) Prepared & Analyzed: 06/09/23										
Benzene	21.3	0.50	ug/L	20.0		106	75-125			
Ethylbenzene	21.0	0.50	ug/L	20.0		105	75-125			
Methyl-tert-Butyl Ether (MTBE)	33.1	2.0	ug/L	40.0		82.7	75-125			
Toluene	20.7	0.50	ug/L	20.0		104	75-125			
o-Xylene	19.5	0.50	ug/L	20.0		97.4	75-125			
m,p-Xylenes	43.6	1.0	ug/L	40.0		109	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>102</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>43.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>86.1</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>45.6</i>		<i>ug/L</i>	<i>50.0</i>		<i>91.1</i>	<i>70-140</i>			
LCS Dup (B3F0906-BSD1) Prepared & Analyzed: 06/09/23										
Benzene	23.7	0.50	ug/L	20.0		118	75-125	10.6	30	
Ethylbenzene	22.9	0.50	ug/L	20.0		115	75-125	8.79	30	
Methyl-tert-Butyl Ether (MTBE)	33.0	2.0	ug/L	40.0		82.6	75-125	0.121	30	
Toluene	22.9	0.50	ug/L	20.0		114	75-125	9.91	30	
o-Xylene	21.0	0.50	ug/L	20.0		105	75-125	7.70	30	
m,p-Xylenes	42.5	1.0	ug/L	40.0		106	75-125	2.58	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>99.9</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>38.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>77.7</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.6</i>		<i>ug/L</i>	<i>50.0</i>		<i>99.2</i>	<i>70-140</i>			
Duplicate (B3F0906-DUP1) Source: 3F08009-01 Prepared & Analyzed: 06/09/23										

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: A5335063
Date Received: 06/08/23
Date Reported: 06/28/23

Table with 11 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 B3F0906 - *** DEFAULT PREP ***

Duplicate (B3F0906-DUP1) Continued Source: 3F08009-01 Prepared & Analyzed: 06/09/23

Table listing VOCs: Benzene, Ethylbenzene, Methyl-tert-Butyl Ether (MTBE), Toluene, o-Xylene, m,p-Xylenes, and Surrogate: 4-Bromofluorobenzene, Dibromofluoromethane, Toluene-d8.

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

Batch B3F0905 - *** DEFAULT PREP ***

Blank (B3F0905-BLK1) Prepared & Analyzed: 06/09/23

Table for Gasoline Range Organics (GRO) in Blank sample, showing result <20 and reporting limit 20.

Surrogate: a,a,a-Trifluorotoluene 47.2 ug/L 50.0 94.4 70-130

LCS (B3F0905-BS1) Prepared & Analyzed: 06/09/23

Table for Gasoline Range Organics (GRO) in LCS sample, showing result 537 and reporting limit 20.

Surrogate: a,a,a-Trifluorotoluene 57.0 ug/L 50.0 114 70-130

LCS Dup (B3F0905-BSD1) Prepared & Analyzed: 06/09/23

Table for Gasoline Range Organics (GRO) in LCS Dup sample, showing result 465 and reporting limit 20.

Surrogate: a,a,a-Trifluorotoluene 54.5 ug/L 50.0 109 70-130

Duplicate (B3F0905-DUP1) Source: 3F08006-02 Prepared & Analyzed: 06/09/23

Table for Gasoline Range Organics (GRO) in Duplicate sample, showing result 20.5 and reporting limit 20.

Surrogate: a,a,a-Trifluorotoluene 44.9 ug/L 50.0 89.8 70-130

VOCs in Vapor as Hexane - Quality Control

Batch B3F0905 - *** DEFAULT PREP ***

Blank (B3F0905-BLK1) Prepared & Analyzed: 06/09/23

Table for Total VOCs as Hexane in Blank sample, showing result <4.9 and reporting limit 4.9 ppmv.

LCS (B3F0905-BS1) Prepared: 06/09/23 Analyzed: 06/23/23

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: A5335063
Date Received: 06/08/23
Date Reported: 06/28/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3F0905 - *** DEFAULT PREP ***</i>										
LCS (B3F0905-BS1) Continued										
Total VOCs as Hexane	ND	4.9	ppmv				75-125			Prepared: 06/09/23 Analyzed: 06/23/23
LCS Dup (B3F0905-BSD1)										
Total VOCs as Hexane	ND	4.9	ppmv				75-125		30	Prepared: 06/09/23 Analyzed: 06/23/23
Duplicate (B3F0905-DUP1)										
Total VOCs as Hexane	<4.9	4.9	ppmv						30	Source: 3F08006-02 Prepared & Analyzed: 06/09/23

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: A5335063
Date Received: 06/08/23
Date Reported: 06/28/23

Special Notes

A handwritten signature in black ink, appearing to be 'VA' or similar, written over a light gray background.

Viorel Vasile
Operations Manager



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 483672
Report Level: II
Report Date: 05/03/2023

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.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Imelda Morales
APEX - Signal Hill
1962 Freeman Avenue
Signal Hill, CA 90755

Lab Job #: 483672
Project No: PERMIT #22453_WW
Location: WW
Date Received: 04/19/23

Sample ID	Lab ID	Collected	Matrix
SURGE TANK_04-19-23	483672-001	04/19/23 13:05	Water
EFFLUENT_04-19-23	483672-002	04/19/23 12:40	Water

483672

CHAIN OF CUSTODY RECORD
 931 W. Barkley, Orange, CA 92668
 Phone: (714) 771-6900 Fax: (714) 771-9933
 Billing: Enthralpy 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: 15881
 Page: 1 of 1

Preservative: 1=Na2SO3 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 Morais
 Email: imelda.morais@apex.com, imelda.morais@apex.com
 Address: 1962 Freeman Ave
 Signal Hill, CA 90755
 Phone: 662-597-1055 Fax:

PROJECT INFORMATION
 Name: WW
 Number: Permit #22463
 Address: 16306 Norwalk Blvd
 Norwalk, CA 90650



Sample ID	Date	Time	Matrix	Container	Pres.	Analysis		Test Instruction & Comments
						8015 TPHD (RO)	8015 TPHG (GRO)	
1	Surge Tank_04-19-23	1305	W	*	*	X	X	Enthalpy Quote No.: APEX 012120
2	Effluent_04-19-23	1240	W	*	*	X	X	*TPHD - 1L amber, unpreserved *TPHG - 3x 40ml VOA vials w/HCl *824-VOCs - 3x 40ml VOA vials w/HCl
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								

Meter Readings

1) Begin:	Temp.	pH	Time
End:			
2) Begin:			
End:			
3) Begin:			
End:			
4) Begin:			
End:			

Relinquished By: *Glenn Androsko* 4-19-23 1635
 Received By: *Glenn Androsko* 4/19/23 1634
 Relinquished By: *Glenn Androsko* 4/19/23 1634
 Received By: *Glenn Androsko* 4/19/23 1634

Print Name: Glenn Androsko
 Date: 4-19-23
 Time: 1635

Print Name: Glenn Androsko
 Date: 4/19/23
 Time: 1634

Print Name: Glenn Androsko
 Date: 4/19/23
 Time: 1634

Print Name: Glenn Androsko
 Date: 4/19/23
 Time: 1634

Authorized By: *Glenn Androsko* 4/19/23



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: APEX Project: WW
 Date Received: 4/19/23 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: 18.8 #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: 20 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	X		
Are sample IDs present?	X		
Are sampling dates & times present?	X		
Is a relinquished signature present?	X		
Are the tests required clearly indicated on the COC?	X		
Are custody seals present?		X	
If custody seals are present, were they intact?			X
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			X
Did all samples arrive intact? If no, indicate in Section 4 below.	X		
Did all bottle labels agree with COC? (ID, dates and times)	X		
Were the samples collected in the correct containers for the required tests?	X		
Are the containers labeled with the correct preservatives?	X		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?		X	
Was a sufficient amount of sample submitted for the requested tests?	X		

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: 4/19/23

Analysis Results for 483672

Imelda Morales
 APEX - Signal Hill
 1962 Freeman Avenue
 Signal Hill, CA 90755

Lab Job #: 483672
 Project No: PERMIT #22453_WW
 Location: WW
 Date Received: 04/19/23

Sample ID: SURGE TANK_04-19-23	Lab ID: 483672-001	Collected: 04/19/23 13:05
Matrix: Water		

483672-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 624.1									
Prep Method: EPA 624.1									
MTBE	ND		ug/L	5.0	1	312152	04/20/23	04/20/23	EJB
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	312152	04/20/23	04/20/23	EJB
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	312152	04/20/23	04/20/23	EJB
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	312152	04/20/23	04/20/23	EJB
tert-Butyl Alcohol (TBA)	29		ug/L	10	1	312152	04/20/23	04/20/23	EJB
m,p-Xylenes	ND		ug/L	10	1	312152	04/20/23	04/20/23	EJB
o-Xylene	ND		ug/L	5.0	1	312152	04/20/23	04/20/23	EJB
Benzene	ND		ug/L	5.0	1	312152	04/20/23	04/20/23	EJB
Toluene	ND		ug/L	0.5	1	312152	04/20/23	04/20/23	EJB
Ethylbenzene	ND		ug/L	5.0	1	312152	04/20/23	04/20/23	EJB
Xylene (total)	ND		ug/L	5.0	1	312152	04/20/23	04/20/23	EJB
Surrogates			Limits						
Dibromofluoromethane	101%		%REC	70-130	1	312152	04/20/23	04/20/23	EJB
1,2-Dichloroethane-d4	103%		%REC	70-130	1	312152	04/20/23	04/20/23	EJB
Toluene-d8	102%		%REC	70-130	1	312152	04/20/23	04/20/23	EJB
Bromofluorobenzene	98%		%REC	70-130	1	312152	04/20/23	04/20/23	EJB
Method: EPA 8015B									
Prep Method: EPA 5030B									
TPH Gasoline	61		ug/L	50	1	312170	04/20/23	04/20/23	LYZ
Surrogates			Limits						
Bromofluorobenzene (FID)	108%		%REC	60-140	1	312170	04/20/23	04/20/23	LYZ
Method: EPA 8015B									
Prep Method: EPA 3510C									
Diesel C10-C28	0.65		mg/L	0.093	0.93	312431	04/24/23	04/25/23	BJG
Surrogates			Limits						
n-Triacontane	82%		%REC	35-130	0.93	312431	04/24/23	04/25/23	BJG

Analysis Results for 483672

Sample ID: EFFLUENT_04-19-23	Lab ID: 483672-002	Collected: 04/19/23 12:40
Matrix: Water		

483672-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 624.1									
Prep Method: EPA 624.1									
MTBE	ND		ug/L	5.0	1	312578	04/26/23	04/26/23	LYZ
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	312578	04/26/23	04/26/23	LYZ
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	312578	04/26/23	04/26/23	LYZ
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	312578	04/26/23	04/26/23	LYZ
tert-Butyl Alcohol (TBA)	ND		ug/L	10	1	312578	04/26/23	04/26/23	LYZ
m,p-Xylenes	ND		ug/L	10	1	312578	04/26/23	04/26/23	LYZ
o-Xylene	ND		ug/L	5.0	1	312578	04/26/23	04/26/23	LYZ
Benzene	ND		ug/L	5.0	1	312578	04/26/23	04/26/23	LYZ
Toluene	ND		ug/L	0.5	1	312578	04/26/23	04/26/23	LYZ
Ethylbenzene	ND		ug/L	5.0	1	312578	04/26/23	04/26/23	LYZ
Xylene (total)	ND		ug/L	5.0	1	312578	04/26/23	04/26/23	LYZ
Surrogates				Limits					
Dibromofluoromethane	99%		%REC	70-130	1	312578	04/26/23	04/26/23	LYZ
1,2-Dichloroethane-d4	98%		%REC	70-130	1	312578	04/26/23	04/26/23	LYZ
Toluene-d8	101%		%REC	70-130	1	312578	04/26/23	04/26/23	LYZ
Bromofluorobenzene	99%		%REC	70-130	1	312578	04/26/23	04/26/23	LYZ
Method: EPA 8015B									
Prep Method: EPA 5030B									
TPH Gasoline	ND		ug/L	50	1	312170	04/21/23	04/21/23	LYZ
Surrogates				Limits					
Bromofluorobenzene (FID)	71%		%REC	60-140	1	312170	04/21/23	04/21/23	LYZ
Method: EPA 8015B									
Prep Method: EPA 3510C									
Diesel C10-C28	ND		mg/L	0.093	0.93	312431	04/24/23	04/25/23	BJG
Surrogates				Limits					
n-Triacontane	83%		%REC	35-130	0.93	312431	04/24/23	04/25/23	BJG

ND Not Detected

Batch QC

Type: Lab Control Sample	Lab ID: QC1059811	Batch: 312152
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1059811 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	48.80	50.00	ug/L	98%		70-130
Isopropyl Ether (DIPE)	49.85	50.00	ug/L	100%		70-130
Ethyl tert-Butyl Ether (ETBE)	49.38	50.00	ug/L	99%		70-130
Methyl tert-Amyl Ether (TAME)	48.85	50.00	ug/L	98%		70-130
tert-Butyl Alcohol (TBA)	251.0	250.0	ug/L	100%		48-125
m,p-Xylenes	103.8	100.0	ug/L	104%		70-130
o-Xylene	50.39	50.00	ug/L	101%		70-130
Benzene	51.88	50.00	ug/L	104%		70-130
Toluene	50.32	50.00	ug/L	101%		70-130
Ethylbenzene	52.22	50.00	ug/L	104%		70-130
Surrogates						
Dibromofluoromethane	50.04	50.00	ug/L	100%		70-130
1,2-Dichloroethane-d4	49.15	50.00	ug/L	98%		70-130
Toluene-d8	51.06	50.00	ug/L	102%		70-130
Bromofluorobenzene	50.38	50.00	ug/L	101%		70-130

Type: Lab Control Sample Duplicate	Lab ID: QC1059812	Batch: 312152
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1059812 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
MTBE	50.01	50.00	ug/L	100%		70-130	2	30
Isopropyl Ether (DIPE)	51.03	50.00	ug/L	102%		70-130	2	30
Ethyl tert-Butyl Ether (ETBE)	50.58	50.00	ug/L	101%		70-130	2	30
Methyl tert-Amyl Ether (TAME)	49.57	50.00	ug/L	99%		70-130	1	30
tert-Butyl Alcohol (TBA)	257.8	250.0	ug/L	103%		48-125	3	30
m,p-Xylenes	105.4	100.0	ug/L	105%		70-130	2	30
o-Xylene	51.15	50.00	ug/L	102%		70-130	2	30
Benzene	53.12	50.00	ug/L	106%		70-130	2	30
Toluene	51.72	50.00	ug/L	103%		70-130	3	30
Ethylbenzene	53.24	50.00	ug/L	106%		70-130	2	30
Surrogates								
Dibromofluoromethane	49.13	50.00	ug/L	98%		70-130		
1,2-Dichloroethane-d4	49.25	50.00	ug/L	99%		70-130		
Toluene-d8	50.11	50.00	ug/L	100%		70-130		
Bromofluorobenzene	48.48	50.00	ug/L	97%		70-130		

Batch QC

Type: Blank	Lab ID: QC1059815	Batch: 312152
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1059815 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	04/19/23	04/19/23
Isopropyl Ether (DIPE)	ND		ug/L	5.0	04/19/23	04/19/23
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	04/19/23	04/19/23
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	04/19/23	04/19/23
tert-Butyl Alcohol (TBA)	ND		ug/L	10	04/19/23	04/19/23
m,p-Xylenes	ND		ug/L	10	04/19/23	04/19/23
o-Xylene	ND		ug/L	5.0	04/19/23	04/19/23
Benzene	ND		ug/L	5.0	04/19/23	04/19/23
Toluene	ND		ug/L	0.5	04/19/23	04/19/23
Ethylbenzene	ND		ug/L	5.0	04/19/23	04/19/23
Xylene (total)	ND		ug/L	5.0	04/19/23	04/19/23
Surrogates				Limits		
Dibromofluoromethane	98%		%REC	70-130	04/19/23	04/19/23
1,2-Dichloroethane-d4	99%		%REC	70-130	04/19/23	04/19/23
Toluene-d8	101%		%REC	70-130	04/19/23	04/19/23
Bromofluorobenzene	99%		%REC	70-130	04/19/23	04/19/23

Type: Lab Control Sample	Lab ID: QC1061135	Batch: 312578
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1061135 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	45.87	50.00	ug/L	92%		70-130
Isopropyl Ether (DIPE)	47.44	50.00	ug/L	95%		70-130
Ethyl tert-Butyl Ether (ETBE)	45.57	50.00	ug/L	91%		70-130
Methyl tert-Amyl Ether (TAME)	45.86	50.00	ug/L	92%		70-130
tert-Butyl Alcohol (TBA)	181.7	250.0	ug/L	73%		48-125
m,p-Xylenes	105.5	100.0	ug/L	105%		70-130
o-Xylene	51.36	50.00	ug/L	103%		70-130
Benzene	52.76	50.00	ug/L	106%		70-130
Toluene	51.91	50.00	ug/L	104%		70-130
Ethylbenzene	54.05	50.00	ug/L	108%		70-130
Surrogates						
Dibromofluoromethane	49.16	50.00	ug/L	98%		70-130
1,2-Dichloroethane-d4	46.11	50.00	ug/L	92%		70-130
Toluene-d8	50.90	50.00	ug/L	102%		70-130
Bromofluorobenzene	50.27	50.00	ug/L	101%		70-130

Batch QC

Type: Lab Control Sample Duplicate	Lab ID: QC1061136	Batch: 312578
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1061136 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
MTBE	44.11	50.00	ug/L	88%		70-130	4	30
Isopropyl Ether (DIPE)	45.28	50.00	ug/L	91%		70-130	5	30
Ethyl tert-Butyl Ether (ETBE)	43.93	50.00	ug/L	88%		70-130	4	30
Methyl tert-Amyl Ether (TAME)	44.46	50.00	ug/L	89%		70-130	3	30
tert-Butyl Alcohol (TBA)	230.5	250.0	ug/L	92%		48-125	24	30
m,p-Xylenes	96.83	100.0	ug/L	97%		70-130	9	30
o-Xylene	47.32	50.00	ug/L	95%		70-130	8	30
Benzene	49.82	50.00	ug/L	100%		70-130	6	30
Toluene	48.00	50.00	ug/L	96%		70-130	8	30
Ethylbenzene	48.96	50.00	ug/L	98%		70-130	10	30
Surrogates								
Dibromofluoromethane	49.91	50.00	ug/L	100%		70-130		
1,2-Dichloroethane-d4	47.63	50.00	ug/L	95%		70-130		
Toluene-d8	49.82	50.00	ug/L	100%		70-130		
Bromofluorobenzene	50.28	50.00	ug/L	101%		70-130		

Type: Blank	Lab ID: QC1061139	Batch: 312578
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1061139 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	04/26/23	04/26/23
Isopropyl Ether (DIPE)	ND		ug/L	5.0	04/26/23	04/26/23
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	04/26/23	04/26/23
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	04/26/23	04/26/23
tert-Butyl Alcohol (TBA)	ND		ug/L	10	04/26/23	04/26/23
m,p-Xylenes	ND		ug/L	10	04/26/23	04/26/23
o-Xylene	ND		ug/L	5.0	04/26/23	04/26/23
Benzene	ND		ug/L	5.0	04/26/23	04/26/23
Toluene	ND		ug/L	0.5	04/26/23	04/26/23
Ethylbenzene	ND		ug/L	5.0	04/26/23	04/26/23
Xylene (total)	ND		ug/L	5.0	04/26/23	04/26/23
Surrogates				Limits		
Dibromofluoromethane	101%		%REC	70-130	04/26/23	04/26/23
1,2-Dichloroethane-d4	97%		%REC	70-130	04/26/23	04/26/23
Toluene-d8	100%		%REC	70-130	04/26/23	04/26/23
Bromofluorobenzene	103%		%REC	70-130	04/26/23	04/26/23

Batch QC

Type: Matrix Spike	Lab ID: QC1061339	Batch: 312578
Matrix (Source ID): Water (483908-001)	Method: EPA 624.1	Prep Method: EPA 624.1

QC1061339 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
MTBE	1,104	ND	1250	ug/L	88%		75-130	25
Isopropyl Ether (DIPE)	1,114	ND	1250	ug/L	89%		70-130	25
Ethyl tert-Butyl Ether (ETBE)	1,095	ND	1250	ug/L	88%		70-130	25
Methyl tert-Amyl Ether (TAME)	1,126	ND	1250	ug/L	90%		70-130	25
tert-Butyl Alcohol (TBA)	5,521	ND	6250	ug/L	88%		51-122	25
m,p-Xylenes	2,168	30.23	2500	ug/L	86%		70-131	25
o-Xylene	1,113	16.74	1250	ug/L	88%		70-130	25
Benzene	1,221	10.98	1250	ug/L	97%		70-130	25
Toluene	1,144	16.31	1250	ug/L	90%		70-130	25
Ethylbenzene	1,115	ND	1250	ug/L	89%		70-130	25
Surrogates								
Dibromofluoromethane	1,247		1250	ug/L	100%		70-130	25
1,2-Dichloroethane-d4	1,152		1250	ug/L	92%		70-130	25
Toluene-d8	1,258		1250	ug/L	101%		70-130	25
Bromofluorobenzene	1,297		1250	ug/L	104%		70-130	25

Type: Matrix Spike Duplicate	Lab ID: QC1061340	Batch: 312578
Matrix (Source ID): Water (483908-001)	Method: EPA 624.1	Prep Method: EPA 624.1

QC1061340 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
MTBE	1,127	ND	1250	ug/L	90%		75-130	2	30	25
Isopropyl Ether (DIPE)	1,124	ND	1250	ug/L	90%		70-130	1	30	25
Ethyl tert-Butyl Ether (ETBE)	1,130	ND	1250	ug/L	90%		70-130	3	30	25
Methyl tert-Amyl Ether (TAME)	1,159	ND	1250	ug/L	93%		70-130	3	30	25
tert-Butyl Alcohol (TBA)	5,520	ND	6250	ug/L	88%		51-122	0	33	25
m,p-Xylenes	2,430	30.23	2500	ug/L	96%		70-131	11	30	25
o-Xylene	1,206	16.74	1250	ug/L	95%		70-130	8	30	25
Benzene	1,254	10.98	1250	ug/L	99%		70-130	3	30	25
Toluene	1,221	16.31	1250	ug/L	96%		70-130	6	30	25
Ethylbenzene	1,229	ND	1250	ug/L	98%		70-130	10	30	25
Surrogates										
Dibromofluoromethane	1,220		1250	ug/L	98%		70-130			25
1,2-Dichloroethane-d4	1,161		1250	ug/L	93%		70-130			25
Toluene-d8	1,251		1250	ug/L	100%		70-130			25
Bromofluorobenzene	1,234		1250	ug/L	99%		70-130			25

Batch QC

Type: Lab Control Sample	Lab ID: QC1059885	Batch: 312170
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC1059885 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
TPH Gasoline	468.8	500.0	ug/L	94%		70-130
Surrogates						
Bromofluorobenzene (FID)	189.3	200.0	ug/L	95%		60-140

Type: Matrix Spike	Lab ID: QC1059886	Batch: 312170
Matrix (Source ID): Water (483570-001)	Method: EPA 8015B	Prep Method: EPA 5030B

QC1059886 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
TPH Gasoline	576.5	ND	500.0	ug/L	115%		70-130	1
Surrogates								
Bromofluorobenzene (FID)	233.2		200.0	ug/L	117%		60-140	1

Type: Matrix Spike Duplicate	Lab ID: QC1059887	Batch: 312170
Matrix (Source ID): Water (483570-001)	Method: EPA 8015B	Prep Method: EPA 5030B

QC1059887 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
TPH Gasoline	563.1	ND	500.0	ug/L	113%		70-130	2	30	1
Surrogates										
Bromofluorobenzene (FID)	202.6		200.0	ug/L	101%		60-140			1

Type: Blank	Lab ID: QC1059888	Batch: 312170
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC1059888 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
TPH Gasoline	ND		ug/L	50	04/20/23	04/20/23
Surrogates						
Bromofluorobenzene (FID)	99%		%REC	60-140	04/20/23	04/20/23

Type: Blank	Lab ID: QC1060751	Batch: 312431
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1060751 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Diesel C10-C28	ND		mg/L	0.10	04/24/23	04/25/23
Surrogates						
n-Triacontane	79%		%REC	35-130	04/24/23	04/25/23

Batch QC

Type: Lab Control Sample	Lab ID: QC1060752	Batch: 312431
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1060752 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	0.8488	1.000	mg/L	85%		42-120
Surrogates						
n-Triacontane	0.01754	0.02000	mg/L	88%		35-130

Type: Lab Control Sample Duplicate	Lab ID: QC1060753	Batch: 312431
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1060753 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Diesel C10-C28	0.8273	1.000	mg/L	83%		42-120	3	36
Surrogates								
n-Triacontane	0.01740	0.02000	mg/L	87%		35-130		

ND Not Detected



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 485781
Report Level: II
Report Date: 06/08/2023

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.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105



Sample Summary

Imelda Morales
APEX - Signal Hill
1962 Freeman Avenue
Signal Hill, CA 90755

Lab Job #: 485781
Project No: PERMIT #22453_WW
Location: WW
Date Received: 05/24/23

Sample ID	Lab ID	Collected	Matrix
SURGE TANK_05-24-23	485781-001	05/24/23 09:33	Water
EFFLUENT_05-24-23	485781-002	05/24/23 09:03	Water



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: APEX - SH Project: Permit #22453
 Date Received: 5/24/23 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: 2.0 #2: 2.9 #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: 2.9 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	X		
Are sample IDs present?	X		
Are sampling dates & times present?	X		
Is a relinquished signature present?	X		
Are the tests required clearly indicated on the COC?	X		
Are custody seals present?		X	
If custody seals are present, were they intact?			X
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			X
Did all samples arrive intact? If no, indicate in Section 4 below.	X		
Did all bottle labels agree with COC? (ID, dates and times)	X		
Were the samples collected in the correct containers for the required tests?	X		
Are the containers labeled with the correct preservatives?	X		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?		X	
Was a sufficient amount of sample submitted for the requested tests?	X		

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: 5/24/23

Analysis Results for 485781

Imelda Morales
 APEX - Signal Hill
 1962 Freeman Avenue
 Signal Hill, CA 90755

Lab Job #: 485781
 Project No: PERMIT #22453_WW
 Location: WW
 Date Received: 05/24/23

Sample ID: SURGE TANK_05-24-23	Lab ID: 485781-001	Collected: 05/24/23 09:33
Matrix: Water		

485781-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 624.1									
Prep Method: EPA 624.1									
MTBE	ND		ug/L	5.0	1	314747	05/25/23	05/25/23	EJB
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	314747	05/25/23	05/25/23	EJB
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	314747	05/25/23	05/25/23	EJB
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	314747	05/25/23	05/25/23	EJB
tert-Butyl Alcohol (TBA)	34		ug/L	10	1	314747	05/25/23	05/25/23	EJB
m,p-Xylenes	ND		ug/L	10	1	314747	05/25/23	05/25/23	EJB
o-Xylene	ND		ug/L	5.0	1	314747	05/25/23	05/25/23	EJB
Benzene	ND		ug/L	5.0	1	314747	05/25/23	05/25/23	EJB
Toluene	ND		ug/L	0.5	1	314747	05/25/23	05/25/23	EJB
Ethylbenzene	ND		ug/L	5.0	1	314747	05/25/23	05/25/23	EJB
Xylene (total)	ND		ug/L	5.0	1	314747	05/25/23	05/25/23	EJB
Surrogates			Limits						
Dibromofluoromethane	102%		%REC	70-130	1	314747	05/25/23	05/25/23	EJB
1,2-Dichloroethane-d4	100%		%REC	70-130	1	314747	05/25/23	05/25/23	EJB
Toluene-d8	100%		%REC	70-130	1	314747	05/25/23	05/25/23	EJB
Bromofluorobenzene	100%		%REC	70-130	1	314747	05/25/23	05/25/23	EJB
Method: EPA 8015B									
Prep Method: EPA 5030B									
TPH Gasoline	ND		ug/L	50	1	315001	05/30/23	05/30/23	ILK
Surrogates			Limits						
Bromofluorobenzene (FID)	99%		%REC	60-140	1	315001	05/30/23	05/30/23	ILK
Method: EPA 8015B									
Prep Method: EPA 3510C									
Diesel C10-C28	0.35		mg/L	0.097	0.97	314953	05/28/23	06/02/23	BJG
Surrogates			Limits						
n-Triacontane	55%		%REC	35-130	0.97	314953	05/28/23	06/02/23	BJG

Analysis Results for 485781

Sample ID: EFFLUENT_05-24-23	Lab ID: 485781-002	Collected: 05/24/23 09:03
Matrix: Water		

485781-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 624.1									
Prep Method: EPA 624.1									
MTBE	ND		ug/L	5.0	1	314747	05/25/23	05/25/23	HMN
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	314747	05/25/23	05/25/23	HMN
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	314747	05/25/23	05/25/23	HMN
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	314747	05/25/23	05/25/23	HMN
tert-Butyl Alcohol (TBA)	ND		ug/L	10	1	314747	05/25/23	05/25/23	HMN
m,p-Xylenes	ND		ug/L	10	1	314747	05/25/23	05/25/23	HMN
o-Xylene	ND		ug/L	5.0	1	314747	05/25/23	05/25/23	HMN
Benzene	ND		ug/L	5.0	1	314747	05/25/23	05/25/23	HMN
Toluene	ND		ug/L	0.5	1	314747	05/25/23	05/25/23	HMN
Ethylbenzene	ND		ug/L	5.0	1	314747	05/25/23	05/25/23	HMN
Xylene (total)	ND		ug/L	5.0	1	314747	05/25/23	05/25/23	HMN
Surrogates			Limits						
Dibromofluoromethane	104%		%REC	70-130	1	314747	05/25/23	05/25/23	HMN
1,2-Dichloroethane-d4	101%		%REC	70-130	1	314747	05/25/23	05/25/23	HMN
Toluene-d8	101%		%REC	70-130	1	314747	05/25/23	05/25/23	HMN
Bromofluorobenzene	100%		%REC	70-130	1	314747	05/25/23	05/25/23	HMN
Method: EPA 8015B									
Prep Method: EPA 5030B									
TPH Gasoline	ND		ug/L	50	1	315001	05/30/23	05/30/23	ILK
Surrogates			Limits						
Bromofluorobenzene (FID)	97%		%REC	60-140	1	315001	05/30/23	05/30/23	ILK
Method: EPA 8015B									
Prep Method: EPA 3510C									
Diesel C10-C28	ND		mg/L	0.097	0.97	314953	05/28/23	06/02/23	BJG
Surrogates			Limits						
n-Triacontane	72%		%REC	35-130	0.97	314953	05/28/23	06/02/23	BJG

ND Not Detected

Batch QC

Type: Lab Control Sample	Lab ID: QC1068427	Batch: 314747
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1068427 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	50.96	50.00	ug/L	102%		70-130
Isopropyl Ether (DIPE)	53.57	50.00	ug/L	107%		70-130
Ethyl tert-Butyl Ether (ETBE)	52.11	50.00	ug/L	104%		70-130
Methyl tert-Amyl Ether (TAME)	53.43	50.00	ug/L	107%		70-130
tert-Butyl Alcohol (TBA)	202.8	250.0	ug/L	81%		48-125
m,p-Xylenes	114.4	100.0	ug/L	114%		70-130
o-Xylene	56.73	50.00	ug/L	113%		70-130
Benzene	53.72	50.00	ug/L	107%		70-130
Toluene	53.79	50.00	ug/L	108%		70-130
Ethylbenzene	56.16	50.00	ug/L	112%		70-130
Surrogates						
Dibromofluoromethane	50.75	50.00	ug/L	102%		70-130
1,2-Dichloroethane-d4	48.93	50.00	ug/L	98%		70-130
Toluene-d8	49.94	50.00	ug/L	100%		70-130
Bromofluorobenzene	49.48	50.00	ug/L	99%		70-130

Type: Lab Control Sample Duplicate	Lab ID: QC1068428	Batch: 314747
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1068428 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
MTBE	50.81	50.00	ug/L	102%		70-130	0	30
Isopropyl Ether (DIPE)	53.70	50.00	ug/L	107%		70-130	0	30
Ethyl tert-Butyl Ether (ETBE)	52.34	50.00	ug/L	105%		70-130	0	30
Methyl tert-Amyl Ether (TAME)	53.95	50.00	ug/L	108%		70-130	1	30
tert-Butyl Alcohol (TBA)	202.8	250.0	ug/L	81%		48-125	0	30
m,p-Xylenes	117.7	100.0	ug/L	118%		70-130	3	30
o-Xylene	57.70	50.00	ug/L	115%		70-130	2	30
Benzene	54.76	50.00	ug/L	110%		70-130	2	30
Toluene	55.03	50.00	ug/L	110%		70-130	2	30
Ethylbenzene	57.51	50.00	ug/L	115%		70-130	2	30
Surrogates								
Dibromofluoromethane	51.22	50.00	ug/L	102%		70-130		
1,2-Dichloroethane-d4	48.53	50.00	ug/L	97%		70-130		
Toluene-d8	50.02	50.00	ug/L	100%		70-130		
Bromofluorobenzene	49.52	50.00	ug/L	99%		70-130		

Batch QC

Type: Blank	Lab ID: QC1068433	Batch: 314747
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1068433 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	05/25/23	05/25/23
Isopropyl Ether (DIPE)	ND		ug/L	5.0	05/25/23	05/25/23
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	05/25/23	05/25/23
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	05/25/23	05/25/23
tert-Butyl Alcohol (TBA)	ND		ug/L	10	05/25/23	05/25/23
m,p-Xylenes	ND		ug/L	10	05/25/23	05/25/23
o-Xylene	ND		ug/L	5.0	05/25/23	05/25/23
Benzene	ND		ug/L	5.0	05/25/23	05/25/23
Toluene	ND		ug/L	0.5	05/25/23	05/25/23
Ethylbenzene	ND		ug/L	5.0	05/25/23	05/25/23
Xylene (total)	ND		ug/L	5.0	05/25/23	05/25/23
Surrogates				Limits		
Dibromofluoromethane	101%		%REC	70-130	05/25/23	05/25/23
1,2-Dichloroethane-d4	101%		%REC	70-130	05/25/23	05/25/23
Toluene-d8	100%		%REC	70-130	05/25/23	05/25/23
Bromofluorobenzene	100%		%REC	70-130	05/25/23	05/25/23

Type: Blank	Lab ID: QC1069250	Batch: 314953
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1069250 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Diesel C10-C28	ND		mg/L	0.10	05/28/23	06/01/23
Surrogates				Limits		
n-Triacontane	85%		%REC	35-130	05/28/23	06/01/23

Type: Lab Control Sample	Lab ID: QC1069251	Batch: 314953
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1069251 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	0.9051	1.000	mg/L	91%		42-120
Surrogates						
n-Triacontane	0.01860	0.02000	mg/L	93%		35-130

Type: Lab Control Sample Duplicate	Lab ID: QC1069252	Batch: 314953
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1069252 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	Lim
Diesel C10-C28	0.8137	1.000	mg/L	81%		42-120	11	36
Surrogates								
n-Triacontane	0.01699	0.02000	mg/L	85%		35-130		

Batch QC

Type: Lab Control Sample	Lab ID: QC1069377	Batch: 315001
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC1069377 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
TPH Gasoline	581.1	500.0	ug/L	116%		70-130
Surrogates						
Bromofluorobenzene (FID)	206.7	200.0	ug/L	103%		60-140

Type: Matrix Spike	Lab ID: QC1069378	Batch: 315001
Matrix (Source ID): Water (485758-007)	Method: EPA 8015B	Prep Method: EPA 5030B

QC1069378 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
TPH Gasoline	575.4	ND	500.0	ug/L	115%		70-130	1
Surrogates								
Bromofluorobenzene (FID)	185.0		200.0	ug/L	93%		60-140	1

Type: Matrix Spike Duplicate	Lab ID: QC1069379	Batch: 315001
Matrix (Source ID): Water (485758-007)	Method: EPA 8015B	Prep Method: EPA 5030B

QC1069379 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
TPH Gasoline	620.4	ND	500.0	ug/L	124%		70-130	8	30	1
Surrogates										
Bromofluorobenzene (FID)	216.9		200.0	ug/L	108%		60-140			1

Type: Blank	Lab ID: QC1069380	Batch: 315001
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC1069380 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
TPH Gasoline	ND		ug/L	50	05/30/23	05/30/23
Surrogates						
Bromofluorobenzene (FID)	99%		%REC	60-140	05/30/23	05/30/23

ND Not Detected



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 485782
Report Level: II
Report Date: 06/08/2023

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.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105




Sample Summary

Imelda Morales
APEX - Signal Hill
1962 Freeman Avenue
Signal Hill, CA 90755

Lab Job #: 485782
Project No: PERMIT #22453_WW
Location: WW
Date Received: 05/24/23

Sample ID	Lab ID	Collected	Matrix
EFFLUENT_COMP_05-24-23	485782-001	05/24/23 08:30	Water

485782

CHAIN OF CUSTODY RECORD		ENTHALPY ANALYTICAL		Lab Number: 15881	
991 W. Berkeley, Orange, CA 92668		www.enthalpy.com		Client ID: 15881	
Phone: (714) 771-8800 Fax: (714) 771-9933		Page: 1 of 1		Preservative: 1=Na2S2O3 2=HCl 3=HNO3 4=H2SO4 5=NaOH 6=Other	
Billing: Enthalpy Analytical c/o Montrose Environmental Group Inc. P.O. Box 741137, Los Angeles, CA 90074-1137		Turn Around Time		Matrix: A=Air DW=Drinking Water FL=Food Liquid FS=Food Solid	
CUSTOMER INFORMATION Company: APEX Report To: Imelda Morales Email: imelda.morales@apexcs.com, alexm.andresko@apexcs.com Address: 1962 Freeman Ave		PROJECT INFORMATION Name: WW Number: Permit #22453 Address: 15306 Norwalk Blvd		L=Liquid PP=Pure Product S=Solid SW=Swab W=Water WP=Wipe O=Other	
Signal Hill, CA 90755 Phone: 562-597-1055 Fax:		Global ID: P.O. #:		****Turn around time will start the following day for samples received at the Lab after 3pm****	
Sample ID Date Time		Matrix Container Pres.			
1 Effluent_Comp_05-24-23	5-24-23	0830	W * *		Analysis
2					2540 - TSS
3					5220 - COD
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
Meter Readings pH Temp. Time		Relinquished By: 1 Received By: 2		Test Instruction & Comments Enthalpy-Quote-No.-APEX_012120 *TSS - 1L poly, unpreserved *COD - 500ml poly w/H2SO4	
1) Begin:				Authorized By:	
End:					
2) Begin:				Print Name:	
End:				Date:	
3) Begin:				Time:	
End:				Date:	
4) Begin:				Relinquished By: 3 Received By: 4	
End:				Print Name:	
				Date:	
				Time:	

2.9/12.0



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: APEX - SH Project: Permit # 22453
 Date Received: 5/24/23 Sampler's Name Present: Yes No

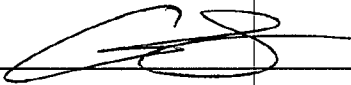
Section 2
 Sample(s) received in a cooler? Yes, How many? 1 No (skip section 2) Sample Temp (°C) (No Cooler) : _____
 Sample Temp (°C), One from each cooler: #1: 12.0 #2: _____ #3: _____ #4: _____
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not 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: 2.9 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	X		
Are sample IDs present?	X		
Are sampling dates & times present?	X		
Is a relinquished signature present?	X		
Are the tests required clearly indicated on the COC?	X		
Are custody seals present?		X	
If custody seals are present, were they intact?			X
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			X
Did all samples arrive intact? If no, indicate in Section 4 below.	X		
Did all bottle labels agree with COC? (ID, dates and times)	X		
Were the samples collected in the correct containers for the required tests?	X		
Are the containers labeled with the correct preservatives?	X		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			X
Was a sufficient amount of sample submitted for the requested tests?	X		

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: 5/24/23

Analysis Results for 485782

Imelda Morales
 APEX - Signal Hill
 1962 Freeman Avenue
 Signal Hill, CA 90755

Lab Job #: 485782
 Project No: PERMIT #22453_WW
 Location: WW
 Date Received: 05/24/23

Sample ID: EFFLUENT_COMP_05-24-23	Lab ID: 485782-001 Matrix: Water	Collected: 05/24/23 08:30
---	---	----------------------------------

485782-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM2540D Prep Method: METHOD									
Total Suspended Solids	2.1		mg/L	0.5	1	314972	05/29/23	05/30/23	DNA
Method: SM5220D Prep Method: METHOD									
Chemical Oxygen Demand	4.0		mg/L	4.0	1	315265	06/01/23	06/01/23	ATP

Batch QC

Type: Blank	Lab ID: QC1069278	Batch: 314972
Matrix: Water	Method: SM2540D	Prep Method: METHOD

QC1069278 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Total Suspended Solids	ND		mg/L	0.5	05/29/23	05/30/23

Type: Sample Duplicate	Lab ID: QC1069279	Batch: 314972
Matrix (Source ID): Water (485693-005)	Method: SM2540D	Prep Method: METHOD

QC1069279 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Suspended Solids	1.800	1.800	mg/L		0	5	2

Type: Sample Duplicate	Lab ID: QC1069280	Batch: 314972
Matrix (Source ID): Water (485723-001)	Method: SM2540D	Prep Method: METHOD

QC1069280 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Suspended Solids	192.5	197.5	mg/L		3	5	50

Type: Blank	Lab ID: QC1070256	Batch: 315265
Matrix: Water	Method: SM5220D	Prep Method: METHOD

QC1070256 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Chemical Oxygen Demand	ND		mg/L	4.0	06/01/23	06/01/23

Type: Lab Control Sample	Lab ID: QC1070257	Batch: 315265
Matrix: Water	Method: SM5220D	Prep Method: METHOD

QC1070257 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chemical Oxygen Demand	106.0	100.0	mg/L	106%		80-120

Type: Matrix Spike	Lab ID: QC1070258	Batch: 315265
Matrix (Source ID): Water (485495-001)	Method: SM5220D	Prep Method: METHOD

QC1070258 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Chemical Oxygen Demand	150.0	55.00	100.0	mg/L	95%		75-125	2

Batch QC

Type: Matrix Spike Duplicate	Lab ID: QC1070259	Batch: 315265
Matrix (Source ID): Water (485495-001)	Method: SM5220D	Prep Method: METHOD

QC1070259 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Chemical Oxygen Demand	148.0	55.00	100.0	mg/L	93%		75-125	1	20	2

ND Not Detected



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 486546
Report Level: II
Report Date: 06/22/2023

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.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105



Sample Summary

Imelda Morales
APEX - Signal Hill
1962 Freeman Avenue
Signal Hill, CA 90755

Lab Job #: 486546
Project No: PERMIT #22453_WW
Location: WW
Date Received: 06/08/23

Sample ID	Lab ID	Collected	Matrix
SURGE TANK_06-08-23	486546-001	06/08/23 12:08	Water
EFFLUENT_06-08-23	486546-002	06/08/23 11:40	Water

486546

CHAIN OF CUSTODY RECORD		ENTHALPY ANALYTICAL		Lab Number: 15881
931 W. Barkley, Orange, CA 92666 Phone: (714) 771-6900 Fax: (714) 771-8633		www.enthalpy.com		Client ID: 15881
Billing: Enthalpy Analytical c/o Montrose Environmental Group Inc. P.O. Box 741137, Los Angeles, CA 90074-1137		1 of 1		Page:

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company: APEX	Name: WW	Turn Around Time	Standard <input checked="" type="checkbox"/> X
Report To: Imelda Morales	Number: Permit #22453	72 Hours	
Email: kat.van@apexco.com	Address: 15306 Norwalk Blvd	48 Hours	
Address: 1962 Freeman Ave		24 Hours	
		Same Day	

ENTHALPY ANALYTICAL		ANALYSIS	
Global ID: Norwalk, CA 90650	Client ID: 15881	Test Instruction & Comments	
P.O. #:	Lab Number: 15881	Preservative: 1=Na2S2O3 2=HCl 3=HNO3 4=H2SO4 5=NaOH 6=Other	
Sampled By:	Client ID: 15881	Matrix: A=Air DW=Drinking Water FL=Food Liquid FS=Food Solid	
Matrix: W	Page: 1 of 1	L=Liquid PP=Pure Product S=Solid SW=Swab W=Water WP=Wipe O=Other	

Sample ID	Date	Time	Temp.	Container	Pres.	8015 TPHD (RO)	8016 PPHG (RO)	824 VOCs (BTEX & m,p xylene & oxygenates)	Enthalpy Quote No.: APEX 012120
1	Surge Tank_06-08-23	6-8:23	1208	*	*	X	X	X	*TPHD - 1L amber, unpreserved
2	Effluent_06-08-23	11:40		*	*	X	X	X	*TPHG - 3x 40ml VOA vials w/HCl
3									*624-VOCs - 3x 40ml VOA vials w/HCl
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

Meter Readings		1 Relinquished By: Glenn Anderson		2 Received By:	
1) Begin:	pH 6.94	Temp. 25.7	Time 1140	Print Name:	Authorized By:
End:					
2) Begin:				Print Name:	
End:				Date:	
3) Begin:				Time:	
End:				Date:	
4) Begin:				Time:	
End:				Date:	

G. 5/1/8.7



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Apex - SH Project: Permit #22453
 Date Received: ^{YS} 6/8/23 ~~6/8/23~~ 6/8/23 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: 8.7 #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: 6.9 #2: _____ #3: _____ #4: _____

Section 4

	YES	NO	N/A
Was a COC received?	X		
Are sample IDs present?	X		
Are sampling dates & times present?	X		
Is a relinquished signature present?	X		
Are the tests required clearly indicated on the COC?	X		
Are custody seals present?		X	
If custody seals are present, were they intact?			X
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			X
Did all samples arrive intact? If no, indicate in Section 4 below.	X		
Did all bottle labels agree with COC? (ID, dates and times)	<u>AS 6/8/23</u>	X	
Were the samples collected in the correct containers for the required tests?	X		
Are the containers labeled with the correct preservatives?	X		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?		X	
Was a sufficient amount of sample submitted for the requested tests?	X		

Section 5 Explanations/Comments

All vials received for Sample 001 and 002 were labeled Surge Tank -

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: 6/8/23

Enthalpy Analytical, a subsidiary of Montrose Environmental Group, Inc.
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www.enthalpy.com/socal

Sample Acceptance Checklist - Rev 4, 8/8/2017

Analysis Results for 486546

Imelda Morales
 APEX - Signal Hill
 1962 Freeman Avenue
 Signal Hill, CA 90755

Lab Job #: 486546
 Project No: PERMIT #22453_WW
 Location: WW
 Date Received: 06/08/23

Sample ID: SURGE TANK_06-08-23	Lab ID: 486546-001	Collected: 06/08/23 12:08
Matrix: Water		

486546-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 624.1									
Prep Method: EPA 624.1									
MTBE	ND		ug/L	5.0	1	315859	06/10/23	06/10/23	EJB
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	315859	06/10/23	06/10/23	EJB
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	315859	06/10/23	06/10/23	EJB
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	315859	06/10/23	06/10/23	EJB
tert-Butyl Alcohol (TBA)	35		ug/L	10	1	315859	06/10/23	06/10/23	EJB
m,p-Xylenes	ND		ug/L	10	1	315859	06/10/23	06/10/23	EJB
o-Xylene	ND		ug/L	5.0	1	315859	06/10/23	06/10/23	EJB
Benzene	ND		ug/L	5.0	1	315859	06/10/23	06/10/23	EJB
Toluene	ND		ug/L	0.5	1	315859	06/10/23	06/10/23	EJB
Ethylbenzene	ND		ug/L	5.0	1	315859	06/10/23	06/10/23	EJB
Xylene (total)	ND		ug/L	5.0	1	315859	06/10/23	06/10/23	EJB
Surrogates				Limits					
Dibromofluoromethane	90%		%REC	70-130	1	315859	06/10/23	06/10/23	EJB
1,2-Dichloroethane-d4	100%		%REC	70-130	1	315859	06/10/23	06/10/23	EJB
Toluene-d8	102%		%REC	70-130	1	315859	06/10/23	06/10/23	EJB
Bromofluorobenzene	98%		%REC	70-130	1	315859	06/10/23	06/10/23	EJB
Method: EPA 8015B									
Prep Method: EPA 5030B									
TPH Gasoline	ND		ug/L	50	1	316104	06/14/23	06/14/23	SXR
Surrogates				Limits					
Bromofluorobenzene (FID)	75%		%REC	60-140	1	316104	06/14/23	06/14/23	SXR
Method: EPA 8015B									
Prep Method: EPA 3510C									
Diesel C10-C28	0.34		mg/L	0.096	0.96	315758	06/09/23	06/09/23	BJG
Surrogates				Limits					
n-Triacontane	55%		%REC	35-130	0.96	315758	06/09/23	06/09/23	BJG

Analysis Results for 486546

Sample ID: EFFLUENT_06-08-23	Lab ID: 486546-002	Collected: 06/08/23 11:40
Matrix: Water		

486546-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 624.1									
Prep Method: EPA 624.1									
MTBE	ND		ug/L	5.0	1	315859	06/10/23	06/10/23	EJB
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	315859	06/10/23	06/10/23	EJB
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	315859	06/10/23	06/10/23	EJB
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	315859	06/10/23	06/10/23	EJB
tert-Butyl Alcohol (TBA)	ND		ug/L	10	1	315859	06/10/23	06/10/23	EJB
m,p-Xylenes	ND		ug/L	10	1	315859	06/10/23	06/10/23	EJB
o-Xylene	ND		ug/L	5.0	1	315859	06/10/23	06/10/23	EJB
Benzene	ND		ug/L	5.0	1	315859	06/10/23	06/10/23	EJB
Toluene	ND		ug/L	0.5	1	315859	06/10/23	06/10/23	EJB
Ethylbenzene	ND		ug/L	5.0	1	315859	06/10/23	06/10/23	EJB
Xylene (total)	ND		ug/L	5.0	1	315859	06/10/23	06/10/23	EJB
Surrogates				Limits					
Dibromofluoromethane	92%		%REC	70-130	1	315859	06/10/23	06/10/23	EJB
1,2-Dichloroethane-d4	98%		%REC	70-130	1	315859	06/10/23	06/10/23	EJB
Toluene-d8	101%		%REC	70-130	1	315859	06/10/23	06/10/23	EJB
Bromofluorobenzene	99%		%REC	70-130	1	315859	06/10/23	06/10/23	EJB
Method: EPA 8015B									
Prep Method: EPA 5030B									
TPH Gasoline	ND		ug/L	50	1	316104	06/14/23	06/14/23	SXR
Surrogates				Limits					
Bromofluorobenzene (FID)	74%		%REC	60-140	1	316104	06/14/23	06/14/23	SXR
Method: EPA 8015B									
Prep Method: EPA 3510C									
Diesel C10-C28	ND		mg/L	0.096	0.96	315758	06/09/23	06/09/23	BJG
Surrogates				Limits					
n-Triacontane	54%		%REC	35-130	0.96	315758	06/09/23	06/09/23	BJG

ND Not Detected

Batch QC

Type: Lab Control Sample	Lab ID: QC1072245	Batch: 315859
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1072245 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	50.24	50.00	ug/L	100%		70-130
Isopropyl Ether (DIPE)	56.11	50.00	ug/L	112%		70-130
Ethyl tert-Butyl Ether (ETBE)	51.25	50.00	ug/L	103%		70-130
Methyl tert-Amyl Ether (TAME)	52.73	50.00	ug/L	105%		70-130
tert-Butyl Alcohol (TBA)	239.8	250.0	ug/L	96%		48-125
m,p-Xylenes	110.8	100.0	ug/L	111%		70-130
o-Xylene	54.48	50.00	ug/L	109%		70-130
Benzene	53.97	50.00	ug/L	108%		70-130
Toluene	53.83	50.00	ug/L	108%		70-130
Ethylbenzene	55.07	50.00	ug/L	110%		70-130
Surrogates						
Dibromofluoromethane	48.77	50.00	ug/L	98%		70-130
1,2-Dichloroethane-d4	48.14	50.00	ug/L	96%		70-130
Toluene-d8	50.66	50.00	ug/L	101%		70-130
Bromofluorobenzene	49.69	50.00	ug/L	99%		70-130

Type: Lab Control Sample Duplicate	Lab ID: QC1072246	Batch: 315859
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1072246 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
MTBE	49.46	50.00	ug/L	99%		70-130	2	30
Isopropyl Ether (DIPE)	55.28	50.00	ug/L	111%		70-130	1	30
Ethyl tert-Butyl Ether (ETBE)	50.83	50.00	ug/L	102%		70-130	1	30
Methyl tert-Amyl Ether (TAME)	52.26	50.00	ug/L	105%		70-130	1	30
tert-Butyl Alcohol (TBA)	235.4	250.0	ug/L	94%		48-125	2	30
m,p-Xylenes	112.5	100.0	ug/L	113%		70-130	2	30
o-Xylene	55.49	50.00	ug/L	111%		70-130	2	30
Benzene	53.09	50.00	ug/L	106%		70-130	2	30
Toluene	54.83	50.00	ug/L	110%		70-130	2	30
Ethylbenzene	55.07	50.00	ug/L	110%		70-130	0	30
Surrogates								
Dibromofluoromethane	50.16	50.00	ug/L	100%		70-130		
1,2-Dichloroethane-d4	48.02	50.00	ug/L	96%		70-130		
Toluene-d8	51.88	50.00	ug/L	104%		70-130		
Bromofluorobenzene	51.25	50.00	ug/L	102%		70-130		

Batch QC

Type: Blank	Lab ID: QC1072249	Batch: 315859
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1072249 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	06/10/23	06/10/23
Isopropyl Ether (DIPE)	ND		ug/L	5.0	06/10/23	06/10/23
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	06/10/23	06/10/23
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	06/10/23	06/10/23
tert-Butyl Alcohol (TBA)	ND		ug/L	10	06/10/23	06/10/23
m,p-Xylenes	ND		ug/L	10	06/10/23	06/10/23
o-Xylene	ND		ug/L	5.0	06/10/23	06/10/23
Benzene	ND		ug/L	5.0	06/10/23	06/10/23
Toluene	ND		ug/L	0.5	06/10/23	06/10/23
Ethylbenzene	ND		ug/L	5.0	06/10/23	06/10/23
Xylene (total)	ND		ug/L	5.0	06/10/23	06/10/23
Surrogates				Limits		
Dibromofluoromethane	98%		%REC	70-130	06/10/23	06/10/23
1,2-Dichloroethane-d4	97%		%REC	70-130	06/10/23	06/10/23
Toluene-d8	102%		%REC	70-130	06/10/23	06/10/23
Bromofluorobenzene	100%		%REC	70-130	06/10/23	06/10/23

Type: Blank	Lab ID: QC1072023	Batch: 315758
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1072023 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Diesel C10-C28	ND		mg/L	0.10	06/09/23	06/09/23
Surrogates				Limits		
n-Triacontane	57%		%REC	35-130	06/09/23	06/09/23

Type: Lab Control Sample	Lab ID: QC1072024	Batch: 315758
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1072024 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	0.5403	1.000	mg/L	54%		42-120
Surrogates						
n-Triacontane	0.01163	0.02000	mg/L	58%		35-130

Type: Lab Control Sample Duplicate	Lab ID: QC1072025	Batch: 315758
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1072025 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	Lim
Diesel C10-C28	0.5561	1.000	mg/L	56%		42-120	3	36
Surrogates								
n-Triacontane	0.01160	0.02000	mg/L	58%		35-130		

Batch QC

Type: Lab Control Sample	Lab ID: QC1073078	Batch: 316104
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC1073078 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
TPH Gasoline	590.5	500.0	ug/L	118%		70-130
Surrogates						
Bromofluorobenzene (FID)	165.8	200.0	ug/L	83%		60-140

Type: Matrix Spike	Lab ID: QC1073079	Batch: 316104
Matrix (Source ID): Water (486590-001)	Method: EPA 8015B	Prep Method: EPA 5030B

QC1073079 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
TPH Gasoline	611.0	ND	500.0	ug/L	122%		70-130	1
Surrogates								
Bromofluorobenzene (FID)	174.8		200.0	ug/L	87%		60-140	1

Type: Matrix Spike Duplicate	Lab ID: QC1073080	Batch: 316104
Matrix (Source ID): Water (486590-001)	Method: EPA 8015B	Prep Method: EPA 5030B

QC1073080 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
TPH Gasoline	594.9	ND	500.0	ug/L	119%		70-130	3	30	1
Surrogates										
Bromofluorobenzene (FID)	177.2		200.0	ug/L	89%		60-140			1

Type: Blank	Lab ID: QC1073081	Batch: 316104
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC1073081 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
TPH Gasoline	ND		ug/L	50	06/14/23	06/14/23
Surrogates						
Bromofluorobenzene (FID)	73%		%REC	60-140	06/14/23	06/14/23

ND Not Detected

