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November 9, 2021

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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 – Third Quarter 2021, Defense Fuel Support Point Norwalk* (SCP NO. 0286A, SITE ID No. 16638) located at 15306 Norwalk Boulevard, Norwalk, California

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

Sincerely,

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William Y. Potter  
Acting Chief, Restoration Section

Enclosure  
As stated

cc:  
Neil Irish, P.G., Principal Geologist, SGI/Apex

**REMEDIATION STATUS REPORT – THIRD QUARTER 2021**  
**DEFENSE FUEL SUPPORT POINT NORWALK**  
**15306 Norwalk Boulevard**  
**Norwalk, California**

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

Prepared For:



Defense Logistics Agency - Energy  
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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
LARWQCB	California Regional Water Quality Control Board, Los Angeles Region
LNAPL	Light non-aqueous phase liquid
µg/L	micrograms per liter
MTBE	Methyl tertiary-butyl ether
ND	Non-detect
NFA	No Further Action
NPDES	National Pollutant Discharge Elimination System
OM&M	Operations, maintenance, and monitoring
OVA	Organic vapor analyzer
ppm	Parts per million
PID	Photoionization detector
SCAQMD	South Coast Air Quality Management District
SFPP	Santa Fe Pacific Pipelines Partners, L.P.
SGI	The Source Group, Inc.
SVE	Soil vapor extraction
SS	Suspended Solids
TBA	Tertiary-butyl alcohol
TOC	Top of casing

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



## 1.0 INTRODUCTION

On behalf of our client, Defense Logistics Agency - Energy (DLA), The Source Group, Inc., a subsidiary of Apex Companies, LLC (SGI-Apex) presents this report to summarize remediation system operations during this reporting period (Third Quarter 2021 – July 1, 2021 through September 30, 2021) for the Defense Fuel Support Point (DFSP) Norwalk facility, located at 15306 Norwalk Boulevard, Norwalk, California (Site; Figures 1 and 2).

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

### 1.1 Contaminants of Concern

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

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

### 1.2 Remediation Technologies

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

Remediation technologies utilized at the Site include soil vapor extraction (SVE), groundwater extraction (GWE), biosparging, and light non-aqueous phase liquid (LNAPL) removal via manual bailing, 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.

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

### 1.2.1 Groundwater Extraction and Treatment System

The GWE wells pumping to the groundwater extraction and treatment system (GWETS) for hydrocarbon extraction of dissolved-phase subsurface impacts, historically included wells installed in the northwest corner of the Site (GW-2 and GW-13), the central area (GW-14R, which was not connected to the GWETS due to the presence of LNAPL at the time), and the eastern area (GW-15, GW-16, and GMW-58, which was not connected to the GWETS when SGI-Apex took over the project).

The GWETS utilizes electric pumps in each of the GWE wells to extract groundwater into a shared surge tank. Groundwater is then pumped from the surge tank through three particulate-removal bag filter vessels in series (BF1, BF2, and BF3), two MYCELX vessels in series (MX-7 and MX-21) for the removal of residual free product and/or oils/grease, and two coal-based carbon (GAC) vessels in series (750-pound GAC-1 and 2,000-pound GAC-2). The final two GAC vessels (2,000-lb GAC-3 and 1,500-lb GAC-4) were removed from the treatment process this quarter and placed as standby vessels. 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.

### 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.

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

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 distribution of floating product on groundwater as recorded during the first semiannual 2021 monitoring event is presented in 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 LARWQCB granted a no further action (NFA) determination for the shallow soil in the upper 10 feet of the Site's eastern 15-acre parcel on April 19, 2018. The NFA determination was contingent upon declaration of covenant and environmental restriction, which was recorded on September 27, 2018. Regulatory closure of shallow soil in the western part of the Site is pending.

### **1.2.6 Soil Management**

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

## 2.0 OPERATIONS, MAINTENANCE AND MONITORING

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

- Performed minimum weekly maintenance and monitoring of the GWETS, carbon VES, thermal oxidizer VES, LNAPL Recovery, and the biosparge system.
- Collected and analyzed influent and effluent vapor samples from the carbon VES and thermal oxidizer VES.
- Collected 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 and thermal oxidizer VESs were collected in Tedlar bags during the reporting period as summarized in Tables 4 and 6. All vapor samples were delivered to Environmental Laboratory Accreditation Program (ELAP) accredited American Analytics for analysis.

The vapor samples were analyzed for the following:

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

Historical summaries of influent vapor analytical sampling results for the carbon VES and thermal oxidizer VES are provided in Tables 4 and 6, respectively. The laboratory analytical reports and chain-of-custody documents for the thermal oxidizer and carbon VES samples are included in Appendix A. As the Table 6 results indicate, thermal oxidizer VES concentrations have 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 1,900 micrograms per liter ( $\mu\text{g/L}$ ), 3.9  $\mu\text{g/L}$  and non-detect (ND)  $<2.0 \mu\text{g/L}$ , respectively. Maximum historic levels for these constituents were previously 14,000  $\mu\text{g/L}$  for GRO (October/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 on Table 1, several of these wells were abandoned to allow for the excavation of impacted soil from the area at or surrounding each respective well (see Sections 1.2.5 and 1.2.6) or were confirmed to be missing/destroyed during September 2016 field reconnaissance work.

Dual-nested SVE and biosparge wells RW-1 through RW-34 were installed during late June and early July 2017 with additional wells, RW-35 through RW-50 and TFB-1 through TFB-38, installed during November and December 2017 (Table 1). All of these wells were installed as part of ongoing remedial expansion activities to target impacts in the 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 conducted during this quarter continued in the central area, the eastern area, and the southern area wells. Biosparge system OM&M details during this quarter are provided in Tables 11A through 11C.

#### **2.4 LNAPL Removal Via Bailing, Skimming and Absorbent Socks**

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

#### **2.5 LNAPL Removal Via Product Recovery System**

The permitting and installation of the product recovery system was completed on August 8, 2016 at which time full-scale operations commenced. At 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 (Appendix B). LNAPL removal is determined individually for active wells with product removal pumps based on interpolating the total volume of product collected in the AST during a given quarter and periodically measuring the volume of LNAPL recovered per cycle for each pump. A portion of the total AST product volume is assigned to each active pump based on well-specific cycle duration and frequency values which are programmed on the basis of current gauging and yield data. Product recovery system OM&M continued through the current quarter with limited operation due to the decrease in LNAPL in wells. OM&M details for all wells connected to the product recovery system during this quarter are provided in Tables 7E through 7W.



### 3.0 SUMMARY OF REMEDIATION PROGRESS

The following sections describe remedial progress at the Site.

#### 3.1 Groundwater Extraction and Treatment System

The GWETS was restarted on October 10, 2019. Based on the total petroleum hydrocarbons quantified as diesel (TPHd) results for influent water samples and total groundwater extracted, an estimated 9,952 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 10,226 pounds (400 pounds via the carbon VES and 9,826 pounds via the thermal oxidizer VES). An estimated 2,985,920 pounds have been removed since April 1996 (Table 3C) via the carbon VES and approximately 317,925 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.

### **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 and TFR-29 (Tables 7A, 7B, 7N and 7P). Overall, LNAPL thickness and removal rates increased in Third Quarter 2021.

A total of approximately 38 gallons (259 pounds) of LNAPL was removed from the Site during this quarter, and an estimated 10,413 gallons (70,344 pounds) of LNAPL has been removed since January 2014.

#### **3.4.1 LNAPL Removal Via Bailing, Skimming and Absorbent Socks**

Approximately 2 gallons (13 pounds) of LNAPL was removed via manual bailing, active pumping using a portable product skimmer and/or by utilizing absorbent socks from wells GMW-62 and GMW-68 during this reporting period (Tables 7A and 7B, respectively).

#### **3.4.2 LNAPL Removal Via Product Recovery System**

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

Approximately 36 gallons (246 pounds) of LNAPL was pumped from wells TFR-22 and TFR-29 during this reporting period (Tables 7N and 7P).

LNAPL gauging results along with cumulative mass and volume removal estimates are summarized in Tables 7E through 7W. As the tables indicate, product thicknesses generally decreased during the current reporting period.

#### 4.0 REMEDIATION SYSTEMS EVALUATION AND OPTIMIZATION

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

Reconfiguration of the respective vapor extraction systems will be conducted regularly to allow for cost-effective site-wide cleanup. Thus, as concentration levels in one or more currently high concentration wells decline to the point where carbon treatment becomes feasible, the well(s) will be progressively disconnected from the thermal oxidizer VES and tied into the carbon VES.

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 with wells in the eastern area, along with natural attenuation, has been successful in preventing further impacted groundwater from flowing off-site, and has captured and treated a significant portion of impacted groundwater under Holifield Park.

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. Currently, wells TFR-22 and TFR-29 are the only active pumping wells.

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

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

Biosparging operations will be optimized to enhance volatilization and biodegradation in impacted areas and will expand to target areas where the LNAPL plume has receded. Periodic collection of pressure response and field parameters data from monitoring wells within the treatment zone will be used to optimize operations and confirm the biosparging zone of influence.

Evaluation of the Eastern 15-acre parcel was conducted to identify remaining high concentration impacted areas in preparation for land development by the City of Norwalk. Subsequently, a

biosparge survey was conducted to confirm system optimization and zone of influence. Additional treatment wells may be required to target the remaining high concentration impacted areas.

## 5.0 PLANNED FOURTH QUARTER 2021 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 Fourth Quarter 2021 OM&M activities:

- Continue minimum weekly maintenance and monitoring of the thermal oxidizer VES. Tasks include measuring individual well vapor concentrations with an organic vapor analyzer (OVA) and collecting/analyzing monthly influent and effluent vapor samples.
- Collect individual extraction well vapor samples for laboratory analysis as needed. Vapor samples will be collected from horizontal wells and extraction wells.
- Continue regular LNAPL gauging and removal activities (as applicable), including wells GWM-62 and GMW-68 (both located off-site in Holifield Park), GMW-7, TF-19, and product recovery system wells TFR-9, GMW-18, TFR-12, TF-15, TFR-14, TFR-15, TF-16, GW-14R, TFR-18, TFR-22, TFR-24, TFR-29, TFR-33, RTF-18-E, RTF-18-NW, RTF-18-N, RTF-18-NNW, RTF-18-W, TF-18, TFR-27, and GMW-45.
- Gauge wells TFR-17, TFR-19, TFR-32, TFR-30, TFR-5, TFR-7, TFR-21, and TFR-26 periodically as SVE is applied (via the thermal oxidizer VES) in order to evaluate any appearance and/or increase in LNAPL thicknesses and the potential for active/passive product recovery.
- Continue controlled product recovery system OM&M from wells TFR-22 and TFR-29, located in the central area of the Site.
- 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.
- 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 installation of additional horizontal treatment wells (vapor extraction and biosparge) in the Eastern 15-acre parcel to target the remaining high concentration impacted areas in preparation for land development by the City of Norwalk.

Ongoing remediation activities and progress will be described in the *Fourth Quarter 2021 Remediation Progress Report* to be submitted by February 15, 2021.

## 6.0 LIMITATIONS

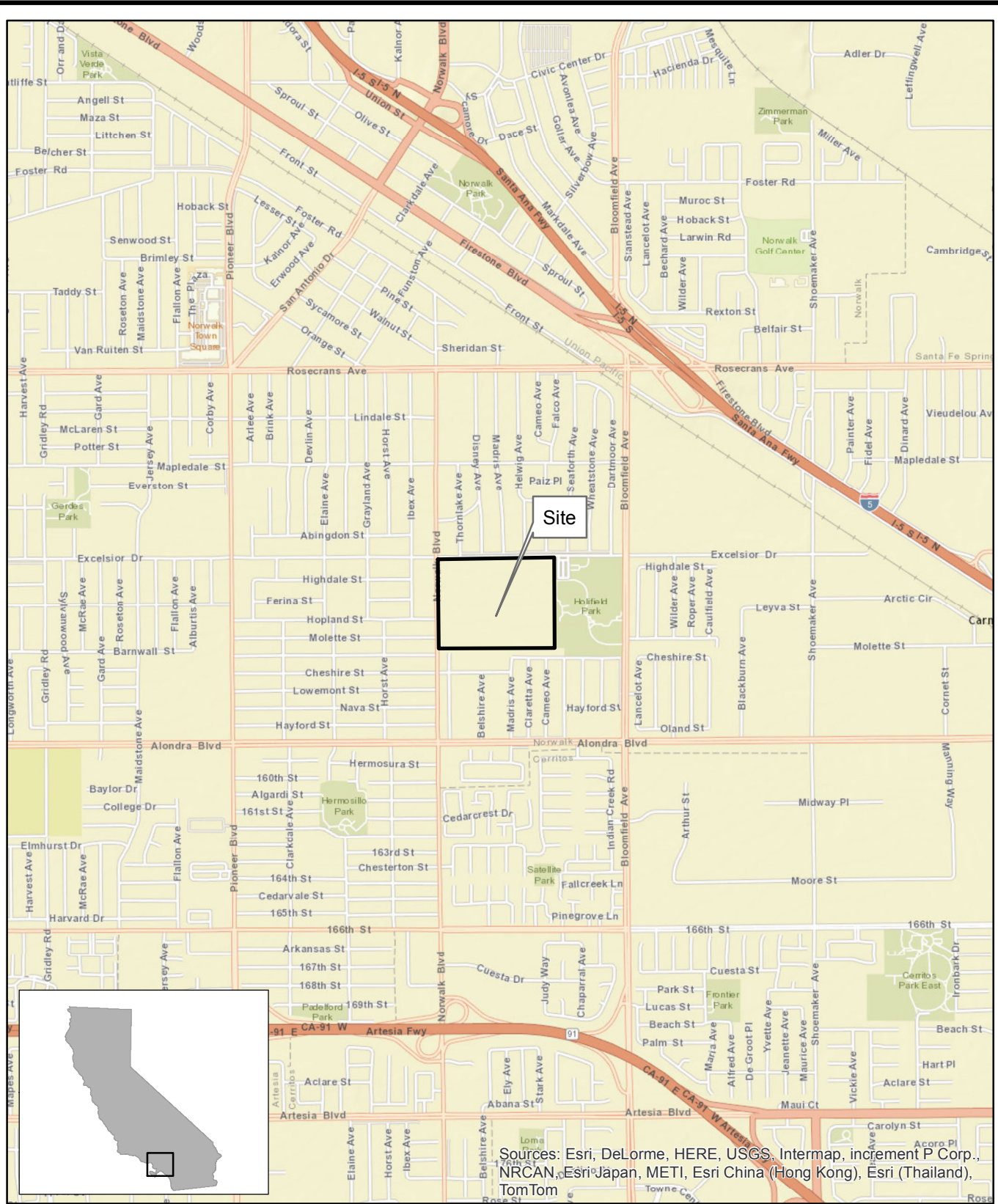
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The presented findings and recommendations in this report are intended to be taken in their entirety to assist DLA and LARWQCB personnel in applying their own professional judgment in making decisions related to the property. SGI-Apex cannot provide 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

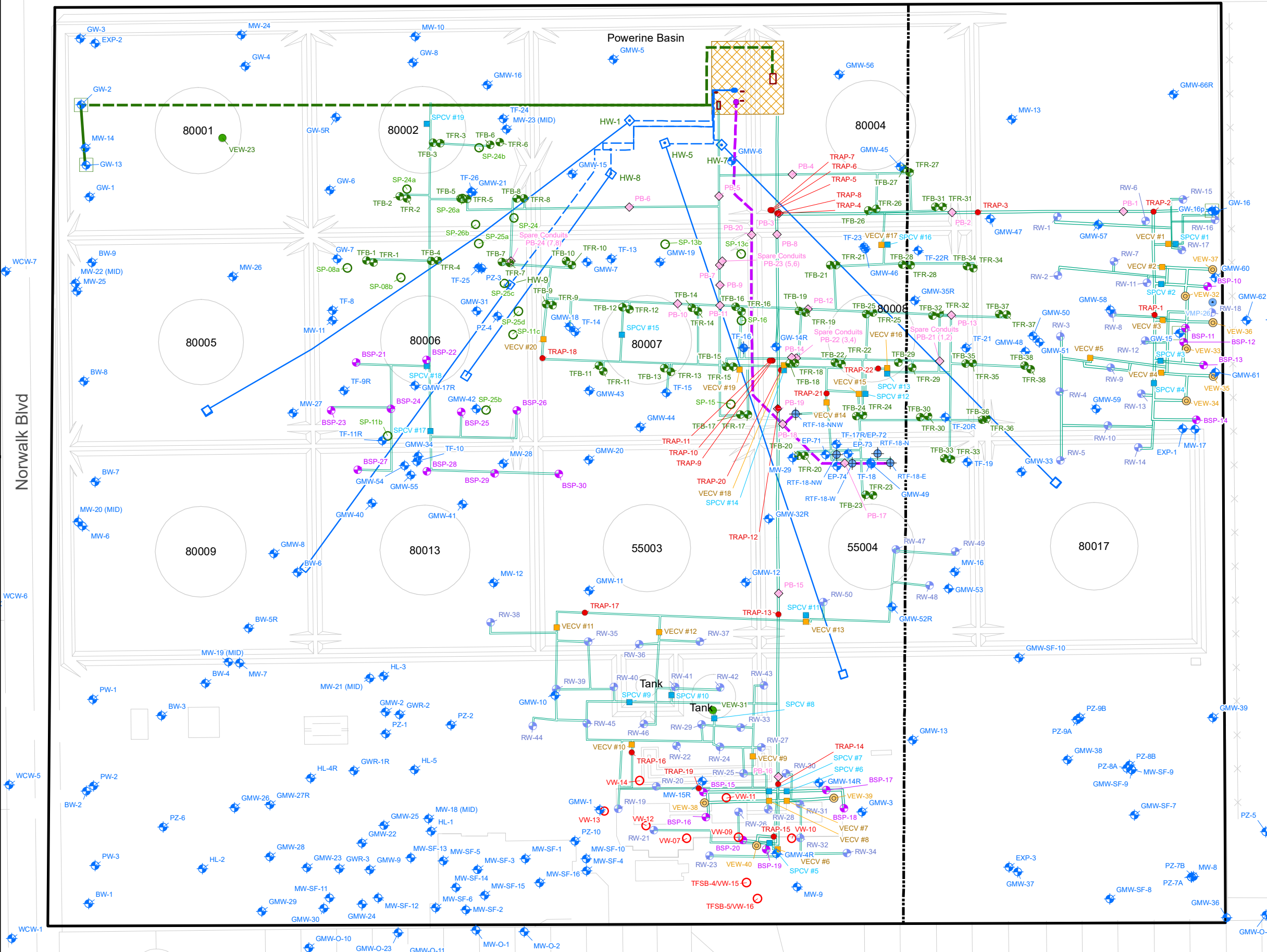
**DEFENSE FUEL SUPPORT POINT  
NORWALK**  
15306 NORWALK BOULEVARD  
NORWALK, CALIFORNIA

**SITE LOCATION MAP**

FIGURE  
**1**

Excelsior Dr

Norwalk Blvd



**Legend**

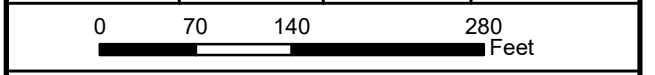
- 80001 Former Above Ground Storage Tanks
- DFSP Norwalk Border
- Fence
- Berm
- Treatment System Enclosure
- Below Grade Trenching and Piping to Remediation Wells
- Existing Horizontal Vapor Extraction Wells
- Below Grade Groundwater Extraction System Piping
- Above Grade Groundwater Extraction System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



**DFSP Norwalk**

15306 Norwalk Boulevard  
Norwalk, California

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

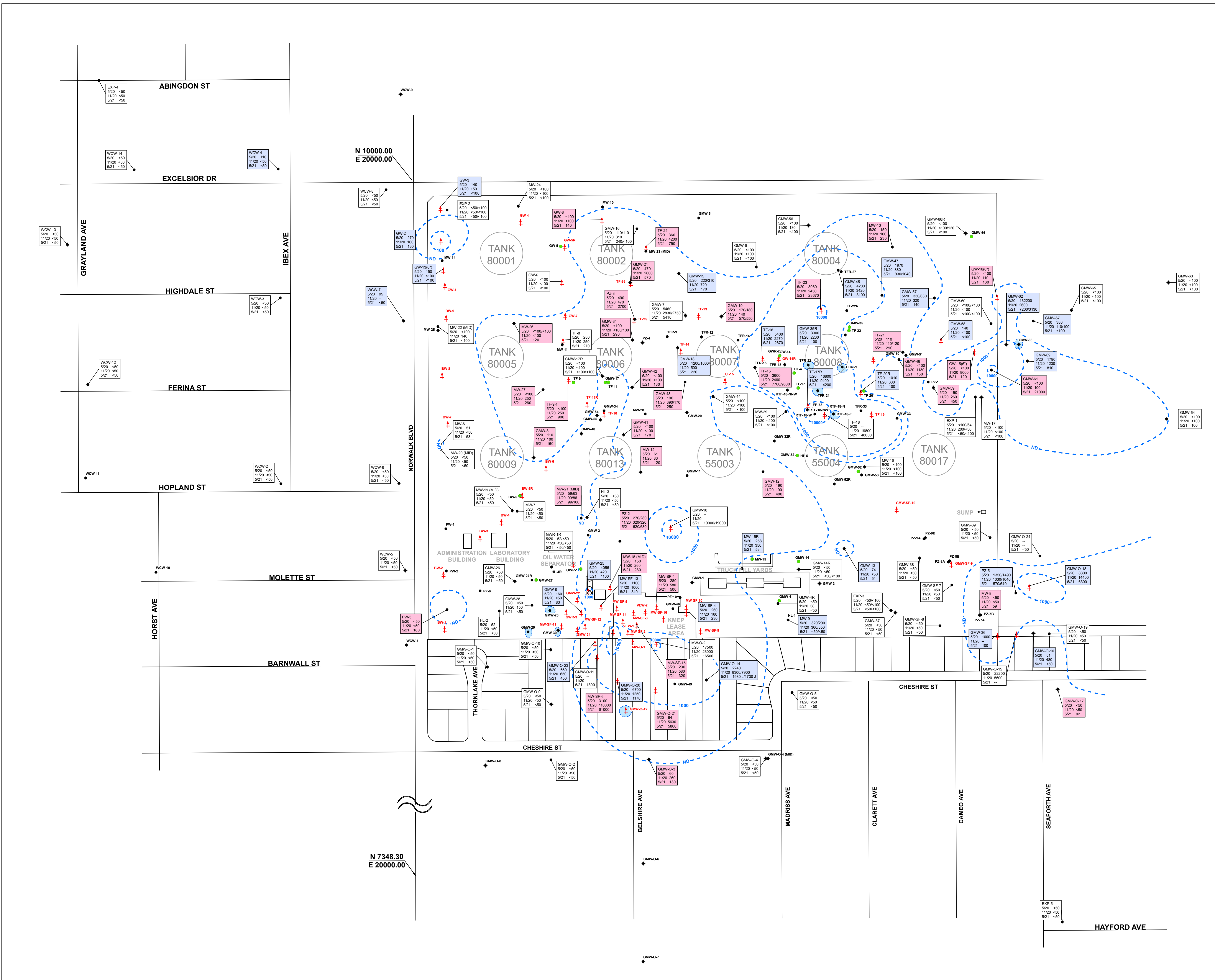


**Site Map Showing All Well and Piping Locations**



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

**Figure**  
**2**



**Explanation**

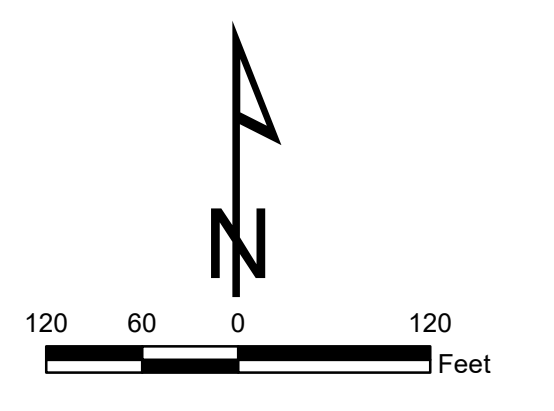
- GMW-5** ● Monitoring well and designation
- VEW-1** ↑ Vapor extraction, groundwater extraction, total fluids, or free product extraction well used for site remediation
- TF-17** ● Decommissioned well
- Total petroleum hydrocarbons (TPH) results in micrograms per liter (µg/L) for the three most recent semiannual events; where the databox is shown in white, the concentration of TPH has remained similar (concentration change is less than 10%) at that location since the first semiannual monitoring event of the previous year, or the dataset shown does not provide a basis for comparison.
- Where the databox is shown in red, the concentration of TPH has increased by 10% or more at that location since the first semiannual monitoring event of the previous year.
- Where the databox is shown in blue, the concentration of TPH has decreased by 10% or more at that location since the first semiannual monitoring event of the previous year.
- <100 Not detected at or above laboratory reporting limit shown
- Not sampled/not analyzed
- <100/<100 Primary sample analytical result/duplicate sample analytical result (µg/L)
- ND Estimated extent of detected dissolved TPH in groundwater (concentration dependent on laboratory reporting limit); dashed where inferred
- 1,000 Lines of equal TPH concentration (µg/L) in groundwater; dashed where inferred
- Estimated extent of measurable light nonaqueous phase liquid (LNAPL, free product) on groundwater; dashed where inferred

**Notes**

1. TPH data provided on this figure and used for contouring represent the sum of detected concentrations of TPH quantified as diesel and as gasoline.
2. Fuel storage tanks depicted on the figure are historical structures and have been removed from the site.

**Survey Notes**

1. Base map prepared from data provided by Fluor Daniel GTI, Dulin & Boynton, Geomatrix, and Parsons.
2. Except as noted below, well locations surveyed by Dulin & Boynton.
3. Locations of wells HL-3, and HL-4 based on field measurements by Fluor Daniel GTI and Woodward-Clyde.
4. Locations of wells BW-1 through BW-9 surveyed by Geomatrix based on reference to other wells surveyed by Dulin & Boynton.
5. Locations of wells TFR-9, TFR-12, TFR-14, TFR-15, TFR-18, TFR-22, TFR-24, TFR-27, TFR-29, and TFR-33 based on field measurements by SGI.



**TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER  
May 2021**

**DEFENSE FUEL SUPPORT POINT NORWALK  
Norwalk, California**

By: Ann Espejo Date: 6/2021 Project No: KMNWCR21

SGI environmental APEX 1962 Freeman Avenue Signal Hill, CA 90755 (926) 997-1055 Figure 3

\\S:\1957\GIS\PROJECTS\DEFENSE\_FUEL\_SUPPORT\_POINT\_NORWALK\MAPS\FILES\2021\2021\_REPORT\FIGURE\_3\_TPH\_2021.MXD A:\ESPEJO 7/27/2021 10:40:37 PM

## TABLES

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

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

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**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)	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
		BSP-30	10	12/11/17	--	46	43 - 45	Biosparge
		TFR-1	10	12/13/17	--	40	20 - 40	TFE, SVE
		TFR-2	10	12/12/17	--	40	20 - 40	TFE, SVE
		TFR-3	10	12/12/17	--	40	20 - 40	TFE, SVE
		TFR-4	10	12/13/17	--	40	20 - 40	TFE, SVE
		TFR-5	10	12/12/17	--	40	20 - 40	TFE, SVE
		TFR-6	10	12/12/17	--	40	20 - 40	TFE, SVE
		TFR-7	10	12/13/17	--	40	20 - 40	TFE, SVE
		TFR-8	10	12/12/17	--	40	20 - 40	TFE, SVE
TFR-9	10	12/13/17	--	40	20 - 40	TFE, SVE		
TFR-10	10	12/11/17	--	40	20 - 40	TFE, SVE		

**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-11	10	12/11/17	--	40	20 - 40	TFE, SVE
		TFR-12	10	12/11/17	--	40	20 - 40	TFE, SVE
		TFR-13	10	12/15/17	--	40	20 - 40	TFE, SVE
		TFR-14	10	12/13/17	--	40	20 - 40	TFE, SVE
		TFR-15	10	12/14/17	--	40	20 - 40	TFE, SVE
		TFR-16	10	12/14/17	--	40	20 - 40	TFE, SVE
		TFR-17	10	12/14/17	--	40	20 - 40	TFE, SVE
		TFR-18	10	12/14/17	--	40	20 - 40	TFE, SVE
		TFR-19	10	12/12/17	--	40	20 - 40	TFE, SVE
		TFR-20	10	12/15/17	--	40	20 - 40	TFE, SVE
		TFR-21	10	12/11/17	--	40	20 - 40	TFE, SVE
		TFR-22	10	11/30/17	--	40	20 - 40	TFE, SVE
		TFR-23	10	11/29/17	--	40	20 - 40	TFE, SVE
		TFR-24	10	11/30/17	--	40	20 - 40	TFE, SVE
		TFR-25	10	11/30/17	--	40	20 - 40	TFE, SVE
		TFR-26	10	11/29/17	--	40	20 - 40	TFE, SVE
		TFR-27	10	11/29/17	--	40	20 - 40	TFE, SVE
		TFR-28	10	11/29/17	--	40	20 - 40	TFE, SVE
		TFR-29	10	11/29/17	--	40	20 - 40	TFE, SVE
		TFR-30	10	11/29/17	--	40	20 - 40	TFE, SVE
		TFR-31	10	11/29/17	--	40	20 - 40	TFE, SVE
		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		

**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-14	10	11/30/17	--	46	43 - 45	Biosparge
		TFB-15	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-16	10	11/28/17	--	46	43 - 45	Biosparge
		TFB-17	10	11/28/17	--	46	43 - 45	Biosparge
		TFB-18	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-19	10	11/28/17	--	46	43 - 45	Biosparge
		TFB-20	10	11/30/17	--	46	43 - 45	Biosparge
		TFB-21	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-22	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-23	10	11/28/17	--	46	43 - 45	Biosparge
		TFB-24	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-25	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-26	10	11/22/17	--	46	43 - 45	Biosparge
		TFB-27	10	11/21/17	--	46	43 - 45	Biosparge
		TFB-28	10	11/22/17	--	46	43 - 45	Biosparge
		TFB-29	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-30	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-31	10	11/21/17	--	46	43 - 45	Biosparge
		TFB-32	10	11/22/17	--	46	43 - 45	Biosparge
		TFB-33	10	11/27/17	--	46	43 - 45	Biosparge
		TFB-34	10	11/21/17	--	46	43 - 45	Biosparge
		TFB-35	10	11/27/17	--	46	43 - 45	Biosparge
		RW-35	10	11/15/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-36	10	11/15/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-37	10	11/16/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-38	10	11/16/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge
		RW-47	10	11/17/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge
		RW-48	10	11/17/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-49	10	11/16/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-50	10	11/20/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge
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



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

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

**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	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
		RW-19	13	06/30/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-20	13	06/29/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-21	13	06/30/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-22	13	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-23	13	06/30/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-24	13	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-25	13	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-26	13	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-27	13	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-28	13	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-29	13	06/29/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-30	13	06/27/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-31	13	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-32	13	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-33	13	06/29/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-34	13	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-39	10	11/15/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge
		RW-40	10	11/15/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-41	10	11/14/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-42	10	11/14/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-43	10	11/14/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-44	10	11/13/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-45	10	11/13/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-46	10	11/13/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
VEW-31				08/03/04	75.10	15	5 - 15	SVE
VEW-38	12			11/02/16	--	30.5	20 - 30	SVE
VEW-39	12			11/03/16	--	30.5	20 - 30	SVE
VEW-40	12			11/02/16	--	30.5	20 - 30	SVE
VW-07	16			--	75.64	--	--	SVE

**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-09	16	--	75.77	--	--	SVE
		VW-10		03/23/04	75.78	30.5	20 - 30	SVE
		VW-11		03/23/04	75.55	25	20 - 25	SVE
		VW-12		03/23/04	75.79	30.5	15 - 30	SVE
		VW-13		03/23/04	75.42	29	25 - 29	SVE
		VW-14		03/23/04	75.89	28	15 - 28	SVE
		VW-15		04/14/04	75.45	30	20 - 30	SVE
		VW-16		04/14/04	75.29	30	20 - 30	SVE

**Legend/Notes :**

ft msl = Feet above mean sea level  
 ft bgs = Feet below ground surface  
 AST = Aboveground storage tank  
 BSP = Biosparge  
 BS = Biosparge  
 HW = Horizontal Well  
 GW/GWE = Groundwater extraction  
 RTF = Recovery Total Fluids  
 RW = Recovery Well  
 SP = Sparge  
 SVE = Soil vapor extraction  
 TF = Total fluid  
 TFE = Total fluid extraction  
 TFB = Total fluids biosparge  
 TFR = Total fluids recovery  
 VW/VEW = Vapor extraction well  
 -- = Information not available

1 = Also referred to as TF-24.

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

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

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

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

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

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

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

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

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

11 = Abandoned on November 16, 2017.

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

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

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

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

16 = Well installation date unknown.

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

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

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

**TABLE 2A**  
**Groundwater Extraction and Treatment System Operations Summary - July**  
 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 <sup>A</sup> (lb)
7/1/21	Off line		--	--	--	--	--	--	--	--	9,950.71
7/2/21	Off line		--	--	--	--	--	--	--	--	9,950.71
7/3/21	Off line		--	--	--	--	--	--	--	--	9,950.71
7/4/21	Off line		--	--	--	--	--	--	--	--	9,950.71
7/5/21	Off line		--	--	--	--	--	--	--	--	9,950.71
7/6/21	Off line		--	--	--	--	--	--	--	--	9,950.71
7/7/21	Technician	1,2	531,929	440,049	1,462,870	1,462,870	971,978	2,300,968	444	--	9,950.71
7/8/21	Technician		533,783	440,191	1,464,053	1,464,053	973,974	2,305,120	4,152	--	9,950.73
7/9/21	Technician	3	536,651	440,377	1,466,805	1,466,805	977,028	2,310,788	5,668	480	9,950.76
7/10/21	*		--	--	--	--	--	--	--	--	9,950.78
7/11/21	*		--	--	--	--	--	--	--	--	9,950.80
7/12/21	*		--	--	--	--	--	--	--	--	9,950.82
7/13/21	*		--	--	--	--	--	--	--	--	9,950.85
7/14/21	*		--	--	--	--	--	--	--	--	9,950.87
7/15/21	*		--	--	--	--	--	--	--	--	9,950.89
7/16/21	Technician		556,729	441,677	1,486,068	1,486,068	998,406	2,350,462	39,674	--	9,950.91
7/17/21	*		--	--	--	--	--	--	--	--	9,950.94
7/18/21	*		--	--	--	--	--	--	--	--	9,950.96
7/19/21	*		--	--	--	--	--	--	--	--	9,950.98
7/20/21	Technician		568,729	442,235	1,497,010	1,497,010	1,010,964	2,373,724	23,262	--	9,951.01
7/21/21	*		--	--	--	--	--	--	--	--	9,951.03
7/22/21	*		--	--	--	--	--	--	--	--	9,951.05
7/23/21	*		--	--	--	--	--	--	--	--	9,951.07
7/24/21	*		--	--	--	--	--	--	--	--	9,951.09
7/25/21	*		--	--	--	--	--	--	--	--	9,951.11
7/26/21	*		--	--	--	--	--	--	--	--	9,951.13
7/27/21	*		--	--	--	--	--	--	--	--	9,951.15
7/28/21	*		--	--	--	--	--	--	--	--	9,951.17
7/29/21	Technician		593,215	444,495	1,514,648	1,514,648	1,037,710	2,418,599	44,875	--	9,951.19
7/30/21	Technician		595,936	444,746	1,516,608	1,516,608	1,040,682	2,423,585	4,986	--	9,951.21
7/31/21	*		--	--	--	--	--	--	--	--	9,951.22

Cumulative Groundwater Discharged by the GWETS to Date (gallons)							
Period	July	Quarter 1, 2021	Quarter 2, 2021	Quarter 3, 2021	Quarter 4, 2021	2021 to Date	April 1996 to Date
Volume	125,983	217,398	248,740	125,983	--	592,121	80,839,578

Cumulative Mass DRO Removed by the GWETS <sup>A</sup> (lb)			
Period	July	Quarter 3 to Date	April 1996 to Date
Mass	0.51	0.51	9,951.2

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

**Legend / Notes:**

- 1 = GWETS restarted.
- 2 = LGAC-4 removed from treatment process.
- 3 = Collected monthly water samples for laboratory analysis.

Groundwater extraction wells on line this month: NoneGW-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 - August**  
 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 <sup>A</sup> (lb)
8/1/21	*		--	--	--	--	--	--	--	--	9,951.23
8/2/21	Technician		601,003	449,057	1,519,951	1,519,951	1,050,060	2,434,185	10,600	--	9,951.25
8/3/21	*		--	--	--	--	--	--	--	--	9,951.28
8/4/21	*		--	--	--	--	--	--	--	--	9,951.30
8/5/21	*		--	--	--	--	--	--	--	--	9,951.33
8/6/21	*		--	--	--	--	--	--	--	--	9,951.35
8/7/21	*		--	--	--	--	--	--	--	--	9,951.38
8/8/21	*		--	--	--	--	--	--	--	--	9,951.40
8/9/21	*		--	--	--	--	--	--	--	--	9,951.43
8/10/21	*		--	--	--	--	--	--	--	--	9,951.45
8/11/21	*		--	--	--	--	--	--	--	--	9,951.48
8/12/21	*		--	--	--	--	--	--	--	--	9,951.50
8/13/21	Technician		633,152	469,616	1,531,778	1,531,778	1,102,768	2,503,460	69,275	--	9,951.53
8/14/21	*		--	--	--	--	--	--	--	--	9,951.55
8/15/21	*		--	--	--	--	--	--	--	--	9,951.57
8/16/21	Technician		641,546	471,940	1,535,307	1,535,307	1,113,486	2,517,860	14,400	--	9,951.59
8/17/21	*		--	--	--	--	--	--	--	--	9,951.61
8/18/21	Technician	1	647,496	475,789	1,537,914	1,537,914	1,123,285	2,529,606	11,746	500	9,951.63
8/19/21	*		--	--	--	--	--	--	--	--	9,951.66
8/20/21	*		--	--	--	--	--	--	--	--	9,951.68
8/21/21	*		--	--	--	--	--	--	--	--	9,951.70
8/22/21	*		--	--	--	--	--	--	--	--	9,951.73
8/23/21	Technician		662,333	484,857	1,543,777	1,543,777	1,147,190	2,558,410	28,804	--	9,951.75
8/24/21	*		--	--	--	--	--	--	--	--	9,951.78
8/25/21	*		--	--	--	--	--	--	--	--	9,951.80
8/26/21	*		--	--	--	--	--	--	--	--	9,951.83
8/27/21	*		--	--	--	--	--	--	--	--	9,951.85
8/28/21	*		--	--	--	--	--	--	--	--	9,951.88
8/29/21	*		--	--	--	--	--	--	--	--	9,951.90
8/30/21	*		--	--	--	--	--	--	--	--	9,951.93
8/31/21	*		--	--	--	--	--	--	--	--	9,951.95

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	August	Quarter 1, 2021	Quarter 2, 2021	Quarter 3, 2021	Quarter 4, 2021	2021 to Date	April 1996 to Date
Volume	178,898	217,398	248,740	304,882	--	771,020	81,018,477

Cumulative Mass DRO Removed by the GWETS <sup>A</sup> (lb)			
Period	August	Quarter 3 to Date	April 1996 to Date
Mass	0.73	1.24	9,952.0

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

**Legend / Notes:**

1 = Collected monthly 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

ug/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 - September**  
 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 <sup>A</sup> (lb)
9/1/21	Technician		688,395	498,722	1,557,980	1,557,980	1,187,117	2,611,525	53,115	--	9,951.98
9/2/21	*		--	--	--	--	--	--	--	--	9,951.99
9/3/21	*		--	--	--	--	--	--	--	--	9,952.00
9/4/21	*		--	--	--	--	--	--	--	--	9,952.01
9/5/21	*		--	--	--	--	--	--	--	--	9,952.02
9/6/21	*		--	--	--	--	--	--	--	--	9,952.04
9/7/21	*		--	--	--	--	--	--	--	--	9,952.05
9/8/21	Technician		700,500	501,540	1,560,338	1,560,338	1,202,040	2,632,009	20,484	--	9,952.06
9/9/21	*		--	--	--	--	--	--	--	--	9,952.08
9/10/21	Technician		706,213	501,690	1,560,338	1,560,338	1,207,903	2,641,673	9,664	--	9,952.10
9/11/21	*		--	--	--	--	--	--	--	--	9,952.12
9/12/21	*		--	--	--	--	--	--	--	--	9,952.14
9/13/21	Technician	1	714,782	508,681	1,560,339	1,560,339	1,223,463	2,656,170	14,497	--	9,952.16
9/14/21	*		--	--	--	--	--	--	--	--	9,952.18
9/15/21	*		--	--	--	--	--	--	--	--	9,952.19
9/16/21	*		--	--	--	--	--	--	--	--	9,952.20
9/17/21	*		--	--	--	--	--	--	--	--	9,952.22
9/18/21	*		--	--	--	--	--	--	--	--	9,952.23
9/19/21	*		--	--	--	--	--	--	--	--	9,952.24
9/20/21	*		--	--	--	--	--	--	--	--	9,952.26
9/21/21	*		--	--	--	--	--	--	--	--	9,952.27
9/22/21	*		--	--	--	--	--	--	--	--	9,952.28
9/23/21	Technician	2	734,773	522,188	1,560,339	1,560,339	1,256,962	2,687,820	31,650	--	9,952.29
9/24/21	Technician	3	736,773	523,539	1,560,339	1,560,339	1,260,312	2,690,985	3,165	--	9,952.31
9/25/21	*		--	--	--	--	--	--	--	--	9,952.32
9/26/21	*		--	--	--	--	--	--	--	--	9,952.34
9/27/21	Technician	4	744,344	527,015	1,559,074	1,559,074	1,271,359	2,701,500	10,515	800	9,952.36
9/28/21	Technician		746,934	527,585	1,559,074	1,559,074	1,274,518	2,704,671	3,171	--	9,952.38
9/29/21	*		--	--	--	--	--	--	--	--	9,952.40
9/30/21	*		--	--	--	--	--	--	--	--	9,952.42

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	September	Quarter 1, 2021	Quarter 2, 2021	Quarter 3, 2021	Quarter 4, 2021	2021 to Date	April 1996 to Date
Volume	105,026	217,398	248,740	409,908	--	876,046	81,123,503

Cumulative Mass DRO Removed by the GWETS <sup>A</sup> (lb)			
Period	September	Quarter 3 to Date	April 1996 to Date
Mass	0.47	1.71	9,952.4

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

**Legend / Notes:**

- 1 = LGAC-2 and LGAC-3 removed from treatment process.
  - 2 = GWETS temporarily off-line to conduct media change out work.
  - 3 = LGAC-2 returned to treatment process.
  - 4 = Collected monthly 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 3A**  
**Carbon Vapor Extraction System Operations Summary - July**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow <sup>A</sup> (scfm)	VES Manifold Vacuum (in. Hg)	Carbon Inlet Temperature (°F)	Laboratory Process Concentration (ppmv)	Field Process Concentration <sup>B,C</sup> (ppmv)	Field Effluent Concentration <sup>B,C</sup> (ppmv)	Cumulative Vapor-Phase GRO Removed <sup>D</sup> (lb)
07/01/21	*		68,341	654	--	--	--	--	--	2,985,525
07/02/21	*		68,365	654	--	--	--	--	--	2,985,530
07/03/21	*		68,389	654	--	--	--	--	--	2,985,536
07/04/21	*		68,413	654	--	--	--	--	--	2,985,541
07/05/21	*		68,437	654	--	--	--	--	--	2,985,546
07/06/21	*		68,461	654	--	--	--	--	--	2,985,551
07/07/21	Technician	1, 2	68,485	649	3.7	130.0	16	195.6	0.2	2,985,557
07/08/21	*		68,509	649	--	--	--	--	--	2,985,562
07/09/21	*		68,533	649	--	--	--	--	--	2,985,567
07/10/21	*		68,556	649	--	--	--	--	--	2,985,572
07/11/21	*		68,580	649	--	--	--	--	--	2,985,577
07/12/21	*		68,604	649	--	--	--	--	--	2,985,583
07/13/21	*		68,627	649	--	--	--	--	--	2,985,588
07/14/21	*		68,651	649	--	--	--	--	--	2,985,593
07/15/21	*		68,675	649	--	--	--	--	--	2,985,598
07/16/21	Technician		68,699	663	3.7	134.0	--	188.6	0.0	2,985,603
07/17/21	*		68,721	663	--	--	--	--	--	2,985,609
07/18/21	*		68,744	663	--	--	--	--	--	2,985,614
07/19/21	Technician	3	68,767	663	--	--	--	--	--	2,985,619
07/20/21	*		68,790	663	--	--	--	--	--	2,985,624
07/21/21	*		68,813	663	--	--	--	--	--	2,985,629
07/22/21	*		68,836	663	--	--	--	--	--	2,985,634
07/23/21	Technician		68,859	658	3.3	118.0	--	198.0	0.0	2,985,639
07/24/21	*		68,884	658	--	--	--	--	--	2,985,645
07/25/21	*		68,909	658	--	--	--	--	--	2,985,650
07/26/21	*		68,934	658	--	--	--	--	--	2,985,656
07/27/21	*		68,959	658	--	--	--	--	--	2,985,662
07/28/21	Technician		68,984	669	3.3	134.0	--	198.2	0.0	2,985,667
07/29/21	*		69,008	669	--	--	--	--	--	2,985,672
07/30/21	*		69,031	669	--	--	--	--	--	2,985,678
07/31/21	*		69,055	669	--	--	--	--	--	2,985,683

Cumulative Mass TPHg Removed by the VES <sup>D</sup> (lb)			
Period	July	Quarter 3 to Date	April 1996 to Date
Mass	163	163	2,985,683

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

**Legend / Notes:**

- 1 = Collected monthly influent, after GAC-1, after GAC-2, and Effluent samples for laboratory analysis.
- 2 = Collected individual well vapor samples for laboratory analysis from HWs and Trunkline 2.
- 3 = VES temporarily shut down for maintenance.

\* = 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 - August**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow <sup>A</sup> (scfm)	VES Manifold Vacuum (in. Hg)	Carbon Inlet Temperature (°F)	Laboratory Process Concentration (ppmv)	Field Process Concentration <sup>B,C</sup> (ppmv)	Field Effluent Concentration <sup>B,C</sup> (ppmv)	Cumulative Vapor-Phase GRO Removed <sup>D</sup> (lb)
08/01/21	*		69,078	669	--	--	--	--	--	2,985,687
08/02/21	*		69,101	669	--	--	--	--	--	2,985,691
08/03/21	Technician		69,125	666	3.4	130.0	--	194.8	0.0	2,985,695
08/04/21	*		69,148	666	--	--	--	--	--	2,985,699
08/05/21	*		69,172	666	--	--	--	--	--	2,985,703
08/06/21	*		69,196	666	--	--	--	--	--	2,985,707
08/07/21	*		69,220	666	--	--	--	--	--	2,985,712
08/08/21	*		69,244	666	--	--	--	--	--	2,985,716
08/09/21	Technician	1	69,268	664	3.4	126.0	13	202.6	0.0	2,985,720
08/10/21	*		69,292	664	--	--	--	--	--	2,985,724
08/11/21	*		69,316	664	--	--	--	--	--	2,985,728
08/12/21	*		69,341	664	--	--	--	--	--	2,985,732
08/13/21	*		69,365	664	--	--	--	--	--	2,985,736
08/14/21	*		69,390	664	--	--	--	--	--	2,985,741
08/15/21	*		69,414	664	--	--	--	--	--	2,985,745
08/16/21	*		69,438	664	--	--	--	--	--	2,985,749
08/17/21	*		69,463	664	--	--	--	--	--	2,985,753
08/18/21	Technician		69,487	653	3.5	122.0	--	181.6	0.0	2,985,757
08/19/21	*		69,511	653	--	--	--	--	--	2,985,761
08/20/21	*		69,536	653	--	--	--	--	--	2,985,766
08/21/21	*		69,560	653	--	--	--	--	--	2,985,770
08/22/21	*		69,584	653	--	--	--	--	--	2,985,774
08/23/21	*		69,609	653	--	--	--	--	--	2,985,778
08/24/21	*		69,633	653	--	--	--	--	--	2,985,782
08/25/21	Technician		69,657	665	3.5	134.0	--	141.2	0.0	2,985,786
08/26/21	*		69,680	665	--	--	--	--	--	2,985,790
08/27/21	*		69,703	665	--	--	--	--	--	2,985,794
08/28/21	*		69,726	665	--	--	--	--	--	2,985,798
08/29/21	*		69,749	665	--	--	--	--	--	2,985,802
08/30/21	*		69,772	665	--	--	--	--	--	2,985,806
08/31/21	Technician		69,795	635	3.7	118.0	--	95.4	0.0	2,985,810

Cumulative Mass TPHg Removed by the VES <sup>A</sup> (lb)			
Period	August	Quarter 3 to Date	April 1996 to Date
Mass	127	290	2,985,810

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

**Legend / Notes:**

1 = Collected monthly influent, 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 - September**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow <sup>A</sup> (scfm)	VES Manifold Vacuum (in. Hg)	Carbon Inlet Temperature (°F)	Laboratory Process Concentration (ppmv)	Field Process Concentration <sup>B,C</sup> (ppmv)	Field Effluent Concentration <sup>B,C</sup> (ppmv)	Cumulative Vapor-Phase GRO Removed <sup>D</sup> (lb)
09/01/21	*		69,820	635	--	--	--	--	--	2,985,813
09/02/21	*		69,844	635	--	--	--	--	--	2,985,817
09/03/21	*		69,868	635	--	--	--	--	--	2,985,821
09/04/21	*		69,893	635	--	--	--	--	--	2,985,824
09/05/21	*		69,917	635	--	--	--	--	--	2,985,828
09/06/21	*		69,942	635	--	--	--	--	--	2,985,832
09/07/21	*		69,966	635	--	--	--	--	--	2,985,836
09/08/21	Technician	1, 2	69,990	661	3.5	132.0	--	200.7	0.0	2,985,839
09/09/21	*		70,014	661	--	--	--	--	--	2,985,843
09/10/21	*		70,037	661	--	--	--	--	--	2,985,847
09/11/21	*		70,060	661	--	--	--	--	--	2,985,851
09/12/21	*		70,083	661	--	--	--	--	--	2,985,854
09/13/21	*		70,106	661	--	--	--	--	--	2,985,858
09/14/21	Technician		70,130	651	3.7	122.0	--	168.0	0.0	2,985,862
09/15/21	*		70,154	651	--	--	--	--	--	2,985,865
09/16/21	*		70,178	651	--	--	--	--	--	2,985,869
09/17/21	*		70,201	651	--	--	--	--	--	2,985,873
09/18/21	*		70,225	651	--	--	--	--	--	2,985,876
09/19/21	*		70,249	651	--	--	--	--	--	2,985,880
09/20/21	Technician	3	70,273	643	3.8	122.0	12	155.4	0.3	2,985,884
09/21/21	*		70,298	643	--	--	--	--	--	2,985,888
09/22/21	*		70,322	643	--	--	--	--	--	2,985,891
09/23/21	*		70,346	643	--	--	--	--	--	2,985,895
09/24/21	*		70,371	643	--	--	--	--	--	2,985,899
09/25/21	*		70,395	643	--	--	--	--	--	2,985,903
09/26/21	*		70,420	643	--	--	--	--	--	2,985,906
09/27/21	Technician		70,444	636	4.0	118.0	--	215.9	0.0	2,985,910
09/28/21	Technician		70,465	636	--	--	--	--	--	2,985,913
09/29/21	*		70,487	636	--	--	--	--	--	2,985,917
09/30/21	*		70,509	636	--	--	--	--	--	2,985,920

Cumulative Mass TPHg Removed by the VES <sup>A</sup> (lb)			
Period	September	Quarter 3 to Date	April 1996 to Date
<b>Mass</b>	110	400	2,985,920

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

**Legend / Notes:**

- 1 = VES temporarily shut down for carbon change out work.
  - 2 = Vessel order switched to make GAC-2 primary.
  - 3 = Collected monthly influent, after GAC-1, after GAC-2, and Effluent samples for laboratory analysis.
  - = Not applicable or not measured
  - \* = Operational values interpolated from chart recorder data or previous monitoring event.
- 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 results for GRO (if not detected, half the detection limit is used)



**TABLE 4**  
**Historical Summary of Analytical Vapor Sampling Results - Influent Carbon VES**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	Vapor Extraction System Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		VOCs as Hexane <sup>A</sup>		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



**TABLE 4**  
**Historical Summary of Analytical Vapor Sampling Results - Influent Carbon VES**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	Vapor Extraction System Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		VOCs as Hexane <sup>A</sup>		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		Total Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
03/21/14		--	TO-3 & 8260B	1.5	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	<0.0050	<0.022	<0.010	<0.043	<0.015	<0.065	<0.010	<0.036
04/23/14		VEW-32, VEW-33, VEW-34, VEW-35, VEW-36 VEW-37, HW-1, HW-3, HW-5, HW-7	TO-3 & 8260B	1.9	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	<0.0050	<0.022	<0.010	<0.043	<0.015	<0.065	<0.010	<0.036
05/16/14	1	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36 VEW-37, HW-1, HW-3, HW-5, HW-7	TO-3 & 8260B	1.1	--	--	<3.0	<11	<0.0050	<0.016	<0.0050	<0.019	<0.0050	<0.022	<0.0050	<0.022	<0.010	<0.043	<0.015	<0.065	<0.010	<0.036
07/09/14	2	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36 VEW-37, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	24	<b>6.1</b>	<b>25</b>	<b>7.0</b>	<b>25</b>	<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	<b>7.3</b>	<b>30</b>	<b>8.4</b>	<b>30</b>	<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	<b>140</b>	<b>580</b>	<b>160</b>	<b>580</b>	<b>0.63</b>	<b>2.0</b>	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<b>0.23</b>	<b>1.0</b>	<b>0.23</b>	<b>1.0</b>	<0.6	<2.0
05/29/15	6,7	--	8015M & 8260M	103	<b>83</b>	<b>340</b>	<b>97</b>	<b>340</b>	<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	<b>32</b>	<b>130</b>	<b>37</b>	<b>130</b>	<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	<b>150</b>	<b>600</b>	<b>170</b>	<b>600</b>	<0.16	<0.50	<b>0.15</b>	<b>0.58</b>	<0.12	<0.50	<b>0.67</b>	<b>2.9</b>	<b>0.71</b>	<b>3.1</b>	<b>1.38</b>	<b>6.0</b>	<0.55	<2.0
07/15/15	6,9	VEW-32, VEW-33, VEW-34	8015M & 8260M	147	<b>170</b>	<b>700</b>	<b>200</b>	<b>700</b>	<0.16	<0.50	<b>0.53</b>	<b>2.0</b>	<b>0.18</b>	<b>0.78</b>	<b>0.99</b>	<b>4.3</b>	<b>1.5</b>	<b>6.3</b>	<b>2.49</b>	<b>10.6</b>	<0.55	<2.0
07/21/15	6,9	VEW-32, VEW-33, VEW-34	8015M & 8260M	259	<b>160</b>	<b>640</b>	<b>180</b>	<b>640</b>	<0.16	<0.50	<b>0.25</b>	<b>0.94</b>	<0.12	<0.50	<b>0.71</b>	<b>3.1</b>	<b>0.62</b>	<b>2.7</b>	<b>1.33</b>	<b>5.8</b>	<0.55	<2.0
07/29/15	6,9	VEW-32, VEW-33, VEW-34	8015M & 8260M	129	<b>170</b>	<b>710</b>	<b>200</b>	<b>710</b>	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<b>0.32</b>	<b>1.4</b>	<b>0.25</b>	<b>1.1</b>	<b>0.57</b>	<b>2.5</b>	<0.55	<2.0
08/17/15	6,10	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5	8015M & 8260M	135	<b>130</b>	<b>550</b>	<b>160</b>	<b>550</b>	<b>0.75</b>	<b>2.4</b>	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<b>0.28</b>	<b>1.2</b>	<b>0.28</b>	<b>1.2</b>	<0.55	<2.0
09/09/15	6,11	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	202	<b>190</b>	<b>760</b>	<b>220</b>	<b>760</b>	<b>0.30</b>	<b>0.95</b>	<b>0.74</b>	<b>2.8</b>	<b>0.76</b>	<b>3.3</b>	<b>0.69</b>	<b>3.0</b>	<b>2.5</b>	<b>11</b>	<b>3.19</b>	<b>14</b>	<0.55	<2.0
09/22/15	6,9	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	225	<b>150</b>	<b>600</b>	<b>170</b>	<b>600</b>	<b>0.27</b>	<b>0.85</b>	<b>0.37</b>	<b>1.4</b>	<0.12	<0.50	<b>0.71</b>	<b>3.1</b>	<b>0.58</b>	<b>2.5</b>	<b>1.29</b>	<b>5.6</b>	<0.55	<2.0
09/25/15	6,9	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	258	<b>220</b>	<b>890</b>	<b>250</b>	<b>890</b>	<b>0.41</b>	<b>1.3</b>	<b>0.64</b>	<b>2.4</b>	<b>0.17</b>	<b>0.75</b>	<b>0.74</b>	<b>3.2</b>	<b>0.85</b>	<b>3.7</b>	<b>1.59</b>	<b>6.9</b>	<0.55	<2.0
10/07/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	256	<b>230</b>	<b>940</b>	<b>270</b>	<b>940</b>	<b>0.69</b>	<b>2.2</b>	<b>0.82</b>	<b>3.1</b>	<b>0.22</b>	<b>0.97</b>	<b>0.41</b>	<b>1.8</b>	<b>1.1</b>	<b>4.6</b>	<b>1.51</b>	<b>6.4</b>	<0.55	<2.0
11/04/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	380	<b>290</b>	<b>1,200</b>	<b>340</b>	<b>1,200</b>	<b>0.88</b>	<b>2.8</b>	<b>1.6</b>	<b>5.9</b>	<b>0.25</b>	<b>1.1</b>	<b>1.4</b>	<b>6.2</b>	<b>2.1</b>	<b>9.0</b>	<b>3.5</b>	<b>15</b>	<0.55	<2.0
12/07/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	346	<b>320</b>	<b>1,300</b>	<b>370</b>	<b>1,300</b>	<b>0.69</b>	<b>2.2</b>	<b>1.9</b>	<b>7.0</b>	<b>0.15</b>	<b>0.64</b>	<b>0.76</b>	<b>3.3</b>	<b>0.94</b>	<b>4.1</b>	<b>1.7</b>	<b>7.4</b>	<0.55	<2.0
01/13/16	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	141	<b>110</b>	<b>470</b>	<b>130</b>	<b>470</b>	<b>0.16</b>	<b>0.52</b>	<b>0.29</b>	<b>1.1</b>	<0.12	<0.50	<b>0.22</b>	<b>0.95</b>	<b>0.30</b>	<b>1.3</b>	<b>0.52</b>	<b>2.3</b>	<0.55	<2.0
02/10/16	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	124	<b>98</b>	<b>400</b>	<b>110</b>	<b>400</b>	<b>0.59</b>	<b>1.9</b>	<b>0.66</b>	<b>2.5</b>	<b>0.23</b>	<b>1.0</b>	<b>0.39</b>	<b>1.7</b>	<b>0.6</b>	<b>2.6</b>	<b>0.99</b>	<b>4.3</b>	<0.55	<2.0
03/02/16	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	92	<b>54</b>	<b>220</b>	<b>63</b>	<b>220</b>	<0.16	<0.50	<b>0.25</b>	<b>0.93</b>	<0.12	<0.50	<b>0.14</b>	<b>0.62</b>	<0.23	<1.0	<b>0.14</b>	<b>0.62</b>	<0.55	<2.0



**TABLE 4**  
**Historical Summary of Analytical Vapor Sampling Results - Influent Carbon VES**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	Vapor Extraction System Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		VOCs as Hexane <sup>A</sup>		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)
04/06/16	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	124	120	490	140	490	0.38	1.2	0.29	1.1	<0.12	<0.50	0.17	0.72	<0.23	<1.0	0.17	0.72	<0.55	<2.0
05/04/16	6,7	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	107	100	410	120	410	0.31	1.0	0.20	0.77	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
06/06/16	6,12	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	73	59	240	68	240	0.59	1.9	0.50	1.9	<0.12	<0.50	0.41	1.8	0.51	2.2	0.92	4.0	<0.55	<2.0
07/06/16	6,13	HW-1, HW-3, HW-5	8015M & 8260M	49	37	150	43	150	0.41	1.3	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
09/01/16	6,13	HW-1, HW-3, HW-5	8015M & 8260M	46	18	75	21	75	0.41	1.3	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
10/12/16	6,13,14	HW-1, HW-3, HW-5	8015M & 8260M	43	19	79	22	79	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
11/01/16	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	114	81	330	94	330	0.53	1.7	0.23	0.86	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
12/05/16	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	96	86	350	100	350	0.31	1.0	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
01/09/17	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	86	68	280	80	280	0.63	2.0	0.24	0.89	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
02/06/17	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	93	66	270	77	270	0.44	1.4	0.19	0.72	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
03/15/17	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	96	76	310	88	310	0.53	1.7	0.24	0.9	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
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

**TABLE 4**  
**Historical Summary of Analytical Vapor Sampling Results - Influent Carbon VES**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	Vapor Extraction System Wells On Line	Laboratory Analysis Methods	GRO	GRO		VOCs as Hexane <sup>A</sup>		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		Total Xylenes		MTBE	
				Field OVA Reading	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
09/13/18	21	HW-1, HW-5, HW-7	8015M & 8260M	109	49	200	50	200	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
10/29/18	21	HW-1, HW-5, HW-7	8015M & 8260M	118	66	270	59	270	0.44	1.4	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
11/14/18	21	HW-1, HW-5, HW-7	8015M & 8260M	202	200	800	170	800	1.3	4.2	0.69	2.6	<0.12	<0.5	<0.12	<0.5	0.35	1.5	<0.35	<1.5	<0.55	<2.0
12/12/18	21	HW-1, HW-5, HW-7	8015M & 8260M	130	98	400	87	400	0.59	1.9	0.21	0.79	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
01/28/19	21	HW-1, HW-5, HW-7	8015M & 8260M	228	220	880	190	880	1.3	4.0	0.27	1.0	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
02/12/19	21, 22	HW-1, HW-5, HW-7	8015M & 8260M	258	240	1,000	220	1,000	1.0	3.3	0.23	0.88	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
04/03/19	21, 22	HW-1, HW-5, HW-7	8015M & 8260M	394	73	300	65	300	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
11/25/19	23	HW-1, HW-5, HW-7, HW-8, HW-9	8015M & 8260M	164	42	170	38	170	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.1	<0.35	<1.6	<0.55	<2.0
12/30/19		HW-1, HW-5, HW-7, HW-8, HW-9	8015M & 8260M	39	7.1	29	6.3	29	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
01/15/20		HW-1, HW-5, HW-7, HW-8, HW-9	8015M & 8260M	15	5.4	22	<5.7	22	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
02/18/20		HW-1, HW-5, HW-7, HW-8, HW-9	8015M & 8260M	12	<4.9	<20	<5.7	<20	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
02/27/20		HW-1, HW-5, HW-7, HW-8, HW-9	8015 & 8260B	16	<4.9	<20	<5.7	<20	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
03/16/20	24	HW-1, HW-5, HW-7	8015 & 8260B	105	18.09	74	16	74	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
04/01/20	25	HW-1, HW-5, HW-7, HW-8, HW-9	8015 & 8260B	47	8.31	34	7.5	34	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
04/15/20		HW-1, HW-5, HW-7, HW-8, HW-9	8015 & 8260B	87	9.5	39	8.6	39	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
05/15/20		HW-1, HW-5, HW-7, HW-8, HW-9	8015 & 8260B	119	17	68	15	68	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
06/22/20		HW-1, HW-5, HW-7, HW-8, HW-9	8015 & 8260B	151	24	98	21	98	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
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

**TABLE 4**  
**Historical Summary of Analytical Vapor Sampling Results - Influent Carbon VES**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Sample Date	Notes	Vapor Extraction System Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		VOCs as Hexane <sup>A</sup>		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		Total Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
09/20/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	155	<b>16</b>	<b>64</b>	<b>12</b>	<b>64</b>	<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.



**TABLE 5A**  
**Thermal Oxidizer Vapor Extraction System Operations Summary - July**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow <sup>A</sup> (scfm)	VES Manifold Vacuum (in. WC)	Oxidizer Inlet Temperature TE1 Excess Controller (°F)	Laboratory Process GRO Concentration (ppmv)	Field Inlet Process Oxidizer Concentration <sup>B,C</sup> (ppmv)	Field Effluent Concentration <sup>B,C</sup> (ppmv)	Cumulative Vapor-Phase GRO Removed <sup>D</sup> (lb)
07/01/21	*		14,016	764	--	--	--	--	--	300,388
07/02/21	*		14,040	764	--	--	--	--	--	300,520
07/03/21	*		14,065	764	--	--	--	--	--	300,651
07/04/21	*		14,089	764	--	--	--	--	--	300,782
07/05/21	*		14,113	764	--	--	--	--	--	300,913
07/06/21	*		14,137	764	--	--	--	--	--	301,044
07/07/21	Technician	1, 2	14,161	775	64	809	340	490	7	301,177
07/08/21	*		14,185	775	--	--	--	--	--	301,307
07/09/21	*		14,208	775	--	--	--	--	--	301,437
07/10/21	*		14,232	775	--	--	--	--	--	301,567
07/11/21	*		14,255	775	--	--	--	--	--	301,697
07/12/21	*		14,279	775	--	--	--	--	--	301,827
07/13/21	*		14,302	775	--	--	--	--	--	301,957
07/14/21	*		14,326	775	--	--	--	--	--	302,087
07/15/21	*		14,349	775	--	--	--	--	--	302,216
07/16/21	Technician		14,373	774	64	813	--	456	6	302,346
07/17/21	*		14,397	774	--	--	--	--	--	302,478
07/18/21	*		14,421	774	--	--	--	--	--	302,609
07/19/21	*		14,445	774	--	--	--	--	--	302,741
07/20/21	*		14,468	774	--	--	--	--	--	302,872
07/21/21	*		14,492	774	--	--	--	--	--	303,003
07/22/21	*		14,516	774	--	--	--	--	--	303,135
07/23/21	Technician		14,540	741	74	817	--	472	11	303,261
07/24/21	*		14,565	741	--	--	--	--	--	303,393
07/25/21	*		14,590	741	--	--	--	--	--	303,524
07/26/21	*		14,615	741	--	--	--	--	--	303,656
07/27/21	*		14,640	741	--	--	--	--	--	303,788
07/28/21	Technician		14,665	781	66	814	--	482	3	303,927
07/29/21	*		14,689	781	--	--	--	--	--	304,058
07/30/21	*		14,712	781	--	--	--	--	--	304,188
07/31/21	*		14,736	781	--	--	--	--	--	304,319

Cumulative Mass TPHg Removed by the VES <sup>D</sup> (lb)			
Period	July	Quarter 3 to Date	January 2018 to Date
Mass	4,061.6	4,061.6	312,159.9

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

**Legend / Notes:**

- 1 = Collected monthly influent and effluent samples for laboratory analysis.
- 2 = Collected trunkline 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-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)

- 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 - August**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow <sup>A</sup> (scfm)	VES Manifold Vacuum (in. WC)	Oxidizer Inlet Temperature TE1 Excess Controller (°F)	Laboratory Process GRO Concentration (ppmv)	Field Inlet Process Oxidizer Concentration <sup>B,C</sup> (ppmv)	Field Effluent Concentration <sup>B,C</sup> (ppmv)	Cumulative Vapor-Phase GRO Removed <sup>D</sup> (lb)
08/01/21	*		14,759	781	--	--	--	--	--	304,422
08/02/21	*		14,783	781	--	--	--	--	--	304,525
08/03/21	Technician		14,806	758	66	814	--	526	5	304,625
08/04/21	*		14,830	758	--	--	--	--	--	304,727
08/05/21	*		14,854	758	--	--	--	--	--	304,828
08/06/21	*		14,878	758	--	--	--	--	--	304,930
08/07/21	*		14,901	758	--	--	--	--	--	305,031
08/08/21	*		14,925	758	--	--	--	--	--	305,133
08/09/21	Technician	1	14,949	740	66	806	290	406	4	305,232
08/10/21	*		14,974	740	--	--	--	--	--	305,334
08/11/21	*		14,998	740	--	--	--	--	--	305,436
08/12/21	*		15,023	740	--	--	--	--	--	305,538
08/13/21	*		15,047	740	--	--	--	--	--	305,641
08/14/21	*		15,072	740	--	--	--	--	--	305,743
08/15/21	*		15,096	740	--	--	--	--	--	305,845
08/16/21	Technician	2	15,121	780	65	803	--	458	5	305,953
08/17/21	*		15,145	780	--	--	--	--	--	306,056
08/18/21	*		15,168	780	--	--	--	--	--	306,159
08/19/21	*		15,192	780	--	--	--	--	--	306,262
08/20/21	*		15,215	780	--	--	--	--	--	306,365
08/21/21	*		15,239	780	--	--	--	--	--	306,468
08/22/21	*		15,262	780	--	--	--	--	--	306,571
08/23/21	*		15,286	780	--	--	--	--	--	306,674
08/24/21	*		15,309	780	--	--	--	--	--	306,777
08/25/21	*		15,333	780	--	--	--	--	--	306,880
08/26/21	Technician		15,356	760	65	815	--	481	1	306,980
08/27/21	*		15,380	760	--	--	--	--	--	307,082
08/28/21	*		15,404	760	--	--	--	--	--	307,183
08/29/21	*		15,427	760	--	--	--	--	--	307,285
08/30/21	*		15,451	760	--	--	--	--	--	307,387
08/31/21	Technician		15,475	728	65	815	--	462	1	307,484

Cumulative Mass TPHg Removed by the VES <sup>D</sup> (lb)			
Period	August	Quarter 3 to Date	January 2018 to Date
Mass	3,165.0	7,226.7	315,325.0

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

**Legend / Notes:**

- 1 = Collected monthly influent and effluent samples for laboratory analysis.
- 2 = VES temporarily shut down for maintenance.

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-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)

- 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 - September**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow <sup>A</sup> (scfm)	VES Manifold Vacuum (in. WC)	Oxidizer Inlet Temperature TE1 Excess Controller (°F)	Laboratory Process GRO Concentration (ppmv)	Field Inlet Process Oxidizer Concentration <sup>B,C</sup> (ppmv)	Field Effluent Concentration <sup>B,C</sup> (ppmv)	Cumulative Vapor-Phase GRO Removed <sup>D</sup> (lb)
09/01/21	*		15,499	728	--	--	--	--	--	307,570
09/02/21	*		15,524	728	--	--	--	--	--	307,656
09/03/21	*		15,548	728	--	--	--	--	--	307,742
09/04/21	*		15,572	728	--	--	--	--	--	307,829
09/05/21	*		15,597	728	--	--	--	--	--	307,915
09/06/21	*		15,621	728	--	--	--	--	--	308,001
09/07/21	*		15,645	728	--	--	--	--	--	308,087
09/08/21	*		15,669	728	--	--	--	--	--	308,173
09/09/21	*		15,694	728	--	--	--	--	--	308,259
09/10/21	Technician		15,718	822	66	811	--	456	3	308,357
09/11/21	*		15,742	822	--	--	--	--	--	308,453
09/12/21	*		15,766	822	--	--	--	--	--	308,549
09/13/21	*		15,790	822	--	--	--	--	--	308,645
09/14/21	Technician		15,814	826	52	774	--	398	2	308,741
09/15/21	*		15,838	826	--	--	--	--	--	308,837
09/16/21	*		15,861	826	--	--	--	--	--	308,932
09/17/21	*		15,885	826	--	--	--	--	--	309,027
09/18/21	*		15,909	826	--	--	--	--	--	309,122
09/19/21	*		15,932	826	--	--	--	--	--	309,217
09/20/21	Technician	1	15,956	762	--	808	240	412	3	309,305
09/21/21	Technician		15,963	762	--	--	--	--	--	309,331
09/22/21	*		15,988	762	--	--	--	--	--	309,423
09/23/21	*		16,012	762	--	--	--	--	--	309,514
09/24/21	*		16,037	762	--	--	--	--	--	309,606
09/25/21	*		16,062	762	--	--	--	--	--	309,697
09/26/21	*		16,086	762	--	--	--	--	--	309,789
09/27/21	Technician	2	16,111	769	66	801	--	406	3	309,881
09/28/21	Technician		16,117	769	--	--	--	--	--	309,904
09/29/21	*		16,141	769	--	--	--	--	--	309,994
09/30/21	*		16,165	769	--	--	--	--	--	310,083

Cumulative Mass TPHg Removed by the VES <sup>A</sup> (lb)			
Period	September	Quarter 3 to Date	January 2018 to Date
Mass	2,599.5	9,826.2	317,924.5

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

**Legend / Notes:**

- 1 = Collected monthly influent and effluent samples for laboratory analysis.
- 2 = System automatically shut down due to suspected power failure.

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-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)

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

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

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



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

Sample Date	Notes	VES Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		VOCs as Hexane <sup>A</sup>		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

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

Sample Date	Notes	VES Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		VOCs as Hexane <sup>A</sup>		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)
07/10/19	2,6,9	Central Area - (TFR-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15, TFR-16), (TFR-5, TFR-7, TFR-9, TFR-10, TFR-12); Eastern Area - (RW-1, RW-11, RW-18, RW-13, RW-4, RW-5, RW-9, RW-10, TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Southern Area - (RW-23, RW-30, RW-31, RW-32, VEW-40, RW-26, RW-28, RW-24, RW-27, RW-33, RW-43, RW-22, RW-29, RW-45, RW-35, RW-40, RW-44, RW-36, RW-37, RW-41, RW-42, RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	1,962	2,100	8,500	1,900	8,500	5.3	17	0.37	1.6	<0.55	<2.0	0.58	2.2	0.25	1.1	0.78	3.4	1.03	4.5
08/05/19	6	Central Area - (TFR-21, TFR-26, TFR-27, TFR-34), (TFR-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), (TFR-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), (TFR-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), (TFR-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), (TFR-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-34), (TFR-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-7), (RW-13, RW-14), (RW-4, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	1,446	2,400	10,000	2,300	10,000	2.20	7.10	0.69	3.00	<1.1	<4	0.93	3.50	0.62	2.70	1.70	7.40	2.32	10

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

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

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

Sample Date	Notes	VES Wells On Line	Laboratory Analysis Methods	GRO	GRO		VOCs as Hexane <sup>A</sup>		Benzene		Ethylbenzene		MTBE		Toluene		o-Xylene		m,p-Xylenes		Total Xylenes	
				Field OVA Reading	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
10/5/2020		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
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

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

Sample Date	Notes	VES Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		VOCs as Hexane <sup>A</sup>		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)
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	<b>538</b>	<b>460</b>	<b>1,900</b>	<b>340</b>	<b>1,900</b>	<b>1.10</b>	<b>3.40</b>	<b>0.37</b>	<b>1.60</b>	<0.55	<2.0	<b>0.48</b>	<b>1.80</b>	<b>0.30</b>	<b>1.30</b>	<b>0.88</b>	<b>3.80</b>	<b>1.18</b>	<b>5.1</b>
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	<b>490</b>	<b>460</b>	<b>1,900</b>	<b>340</b>	<b>1,900</b>	<b>0.94</b>	<b>3.00</b>	<b>0.44</b>	<b>1.90</b>	<0.55	<2.0	<b>0.53</b>	<b>2.00</b>	<b>0.37</b>	<b>1.60</b>	<b>1.10</b>	<b>4.70</b>	<b>1.47</b>	<b>6.3</b>
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	<b>406</b>	<b>370</b>	<b>1,500</b>	<b>290</b>	<b>1,500</b>	<b>1.20</b>	<b>3.90</b>	<b>0.46</b>	<b>2.00</b>	<0.28	<1.0	<b>0.58</b>	<b>2.20</b>	<b>0.37</b>	<b>1.60</b>	<b>1.00</b>	<b>4.50</b>	<b>1.37</b>	<b>6.1</b>
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	<b>412</b>	<b>320</b>	<b>1,300</b>	<b>240</b>	<b>1,300</b>	<b>0.44</b>	<b>1.40</b>	<b>0.32</b>	<b>1.40</b>	<0.28	<1.0	<b>0.37</b>	<b>1.40</b>	<b>0.30</b>	<b>1.30</b>	<b>0.83</b>	<b>3.60</b>	<b>1.13</b>	<b>4.9</b>

**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 - Third Quarter 2021**  
 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 <sup>A</sup> (gallons)	LNAPL Removed with Socks <sup>A</sup> (pounds)	LNAPL Removed with Socks <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A, B</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A, B</sup> (pounds)
<i>End of Second Quarter 2021:</i>							148.8	1,018.5
07/08/21	--	35.30	--	0.0	0.0	0.0	148.8	1,018.5
07/13/21	--	35.24	--	0.0	0.0	0.0	148.8	1,018.5
07/23/21	--	35.60	--	0.0	0.0	0.0	148.8	1,018.5
07/29/21	--	34.87	--	0.0	1.5	0.2	149.1	1,020.0
08/06/21	--	35.58	--	0.0	0.0	0.0	149.1	1,020.0
08/24/21	--	35.64	--	0.0	0.0	0.0	149.1	1,020.0
09/13/21	--	35.17	--	0.0	0.0	0.0	149.1	1,020.0
09/28/21	--	34.99	--	0.0	0.0	0.0	149.1	1,020.0
<b>Cumulative for the Reporting Period <sup>A</sup>:</b>				<b>0.0</b>	<b>1.5</b>	<b>0.2</b>	<b>0.2</b>	<b>1.5</b>
<b>Cumulative Beginning January 2014 <sup>A, B</sup>:</b>				<b>112.0</b>	<b>253.6</b>	<b>37.1</b>	<b>149.1</b>	<b>1,020.0</b>

**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 - Third Quarter 2021**  
 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 <sup>A</sup> (gallons)	LNAPL Removed with Socks <sup>A</sup> (pounds)	LNAPL Removed with Socks <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A, B</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A, B</sup> (pounds)
<i>End of Second Quarter 2021:</i>							92.8	635.3
07/08/21	--	34.54	--	0.0	2.4	0.3	93.2	637.7
07/13/21	--	34.40	--	0.0	0.0	0.0	93.2	637.7
07/23/21	--	34.76	--	0.0	1.9	0.3	93.5	639.6
07/29/21	--	34.23	--	0.0	1.5	0.2	93.7	641.1
08/06/21	--	34.74	--	0.0	0.0	0.0	93.7	641.1
08/24/21	--	34.78	--	0.0	1.5	0.2	93.9	642.6
09/13/21	--	34.46	--	0.0	2.6	0.4	94.3	645.2
09/28/21	--	34.33	--	0.0	1.5	0.2	94.5	646.7
<b>Cumulative for the Reporting Period <sup>A</sup>:</b>				<b>0.0</b>	<b>11.4</b>	<b>1.7</b>	<b>1.7</b>	<b>11.4</b>
<b>Cumulative Beginning October 2016 <sup>A, B</sup>:</b>				<b>33.5</b>	<b>417.5</b>	<b>61.0</b>	<b>94.5</b>	<b>646.7</b>

**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 - Third Quarter 2021**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

<b>Date</b>	<b>Depth to LNAPL (feet btc)</b>	<b>Depth to Water (feet btc)</b>	<b>Measured LNAPL Thickness (feet)</b>	<b>LNAPL Removed Via Pumping and/or Bailing (gallons)</b>	<b>LNAPL Removed with Socks (pounds)</b>	<b>LNAPL Removed with Socks (gallons)</b>	<b>Cumulative LNAPL Removed Via Pumping, Bailing and Socks <sup>A</sup> (gallons)</b>	<b>Cumulative LNAPL Removed Via, Pumping, Bailing and Socks <sup>A</sup> (pounds)</b>
No Product Removal Via Bailing, Skimming, or Absorbant Socks During 3rd Quarter 2021								
<b>Cumulative for the Reporting Period:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning December 2014 <sup>A</sup>:</b>				<b>8.0</b>	<b>135.6</b>	<b>19.8</b>	<b>27.8</b>	<b>190.4</b>

**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 - Third Quarter 2021**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Product Removal Via Bailing, Skimming, or Absorbant Socks During 3rd Quarter 2021								
<b>Cumulative for the Reporting Period:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning June 2015 <sup>A</sup>:</b>				<b>6.75</b>	<b>199.1</b>	<b>29.08</b>	<b>35.8</b>	<b>245.2</b>

**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 - Third Quarter 2021**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2021								
<b>Cumulative for the Reporting Period:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning October 2018 <sup>A,B</sup>:</b>				<b>150.0</b>	<b>0.0</b>	<b>0.0</b>	<b>150.0</b>	<b>1,026.5</b>

**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 - Third Quarter 2021**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2021								
<b>Cumulative for the Reporting Period <sup>B</sup>:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning March 2017 <sup>A</sup>:</b>				<b>101.1</b>	<b>75.8</b>	<b>11.1</b>	<b>112.2</b>	<b>767.6</b>

**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 - Third Quarter 2021**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2021								
<b>Cumulative for the Reporting Period:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning April 2018 <sup>A,B</sup>:</b>				<b>284.3</b>	<b>0.0</b>	<b>0.0</b>	<b>284.3</b>	<b>1,945.7</b>

**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 - Third Quarter 2021**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2021								
<b>Cumulative for the Reporting Period:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning April 2018 <sup>A,B</sup>:</b>				<b>2.1</b>	<b>0.0</b>	<b>0.0</b>	<b>2.1</b>	<b>14.2</b>

**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 - Third Quarter 2021**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2021								
<b>Cumulative for the Reporting Period <sup>B</sup>:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning October 2016 <sup>A</sup>:</b>				<b>187.1</b>	<b>52.5</b>	<b>7.7</b>	<b>194.8</b>	<b>1,332.9</b>

**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 - Third Quarter 2021**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2021								
<b>Cumulative for the Reporting Period:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning October 2018 <sup>A,B</sup>:</b>				<b>23.0</b>	<b>0.0</b>	<b>0.0</b>	<b>23.0</b>	<b>157.4</b>

**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 - Third Quarter 2021**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2021								

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

**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 - Third Quarter 2021**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2021								
<b>Cumulative for the Reporting Period:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning October 2018 <sup>A,B</sup>:</b>				<b>360.0</b>	<b>0.0</b>	<b>0.0</b>	<b>360.0</b>	<b>2,463.6</b>

**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 - Third Quarter 2021**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2021								
<b>Cumulative for the Reporting Period:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning October 2018 <sup>A,B</sup>:</b>				<b>18.1</b>	<b>0.0</b>	<b>0.0</b>	<b>18.1</b>	<b>124.2</b>

**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 - Third Quarter 2021**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness <sup>A</sup> (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 <sup>B</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>B</sup> (pounds)
<i>End of Second Quarter 2021:</i>							294.5	2,015.2
07/08/21	32.62	37.40	4.78	3.1	--	--	297.5	2,036.2
07/13/21	33.32	37.05	3.73	2.3	--	--	299.8	2,051.9
07/20/21	33.56	36.74	3.18	2.3	--	--	302.1	2,067.6
07/30/21	33.22	35.82	2.60	1.5	--	--	303.7	2,078.1
08/06/21	32.92	35.38	2.46	1.5	--	--	305.2	2,088.6
08/17/21	30.02	33.62	3.60	2.3	--	--	307.5	2,104.3
08/26/21	30.50	33.05	2.55	1.5	--	--	309.0	2,114.8
09/01/21	33.51	35.22	1.71	1.5	--	--	310.6	2,125.3
09/13/21	34.01	34.36	0.35	0.8	--	--	311.3	2,130.5
09/21/21	33.69	34.63	0.94	0.8	--	--	312.1	2,135.8
<b>Cumulative for the Reporting Period:</b>				<b>17.6</b>	<b>0.0</b>	<b>0.0</b>	<b>17.6</b>	<b>120.6</b>
<b>Cumulative Beginning October 2018<sup>B,C</sup>:</b>				<b>312.1</b>	<b>0.0</b>	<b>0.0</b>	<b>312.1</b>	<b>2,135.8</b>

**Legend / Notes:**

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

A = Minor Fluctuation in LNAPL thickness measurements are attributed to changes in groundwater levels.

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

C = 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 - Third Quarter 2021**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2021								
<b>Cumulative for the Reporting Period:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning October 2018 <sup>A,B</sup>:</b>				<b>110.1</b>	<b>0.0</b>	<b>0.0</b>	<b>110.1</b>	<b>753.3</b>

**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 - Third Quarter 2021**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness <sup>A</sup> (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing <sup>B</sup> (gallons)	LNAPL Removed with Socks <sup>B</sup> (pounds)	LNAPL Removed with Socks <sup>B</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>B,C</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>B,C</sup> (pounds)
<i>End of Second Quarter 2021:</i>							929.2	6,358.6
07/08/21	33.05	36.47	3.42	2.3	--	--	931.5	6,374.3
07/13/21	33.94	37.27	3.33	2.3	--	--	933.8	6,390.0
07/20/21	33.78	37.26	3.48	2.3	--	--	936.1	6,405.8
07/30/21	32.95	35.73	2.78	1.5	--	--	937.6	6,416.2
08/06/21	33.34	35.62	2.28	1.5	--	--	939.1	6,426.7
08/17/21	29.30	32.00	2.70	1.5	--	--	940.7	6,437.2
08/26/21	29.65	32.95	3.30	2.3	--	--	943.0	6,452.9
09/01/21	33.90	36.63	2.73	1.5	--	--	944.5	6,463.4
09/13/21	33.88	36.61	2.73	1.5	--	--	946.0	6,473.9
09/21/21	33.74	35.76	2.02	1.5	--	--	947.6	6,484.4

<b>Cumulative for the Reporting Period<sup>B</sup>:</b>	<b>18.4</b>	<b>0.0</b>	<b>0.0</b>	<b>18.4</b>	<b>125.8</b>
<b>Cumulative Beginning April 2018<sup>B,C,D,E</sup>:</b>	<b>947.6</b>	<b>0.0</b>	<b>0.0</b>	<b>947.6</b>	<b>6,484.4</b>

**Legend / Notes:**

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

A = Minor Fluctuation in LNAPL thickness measurements are attributed to changes in groundwater levels.

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

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

D = 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).

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



**TABLE 7Q**  
**Summary of LNAPL Removal in Well TFR-33 - Third Quarter 2021**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2021								
<b>Cumulative for the Reporting Period:</b>				<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning October 2018 <sup>A,B</sup>:</b>				<b>123.0</b>	<b>0.0</b>	<b>0.0</b>	<b>123.0</b>	<b>841.7</b>

**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 - Third Quarter 2021**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2021								

<b>Cumulative for the Reporting Period:</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning May 2016 - July 2016 <sup>A</sup>:</b>	<b>47.5</b>	<b>0.0</b>	<b>0.0</b>	<b>47.5</b>	<b>325.1</b>	<b>0.0</b>
<b>Cumulative Beginning August 2016 - September 2019 <sup>B</sup>:</b>	<b>593.4</b>	<b>0.0</b>	<b>0.0</b>	<b>593.4</b>	<b>4,061.5</b>	<b>0.0</b>
<b>Cumulative Beginning May 2016 <sup>A</sup>:</b>	<b>679.1</b>	<b>0.0</b>	<b>0.0</b>	<b>679.1</b>	<b>4,647.1</b>	<b>0.0</b>

**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 - Third Quarter 2021**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2021								

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

**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 - Third Quarter 2021**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2021								

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

**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 - Third Quarter 2021**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2021								

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

**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 - Third Quarter 2021**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2021								

<b>Cumulative for the Reporting Period:</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Cumulative Beginning April 2016 - July 2016 <sup>A</sup>:</b>	<b>54.5</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>54.5</b>	<b>373.0</b>
<b>Cumulative Beginning August 2016 - June 2019 <sup>B</sup>:</b>	<b>62.5</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>62.5</b>	<b>427.7</b>
<b>Cumulative Beginning April 2016 <sup>A</sup>:</b>	<b>117.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>117.0</b>	<b>800.7</b>

**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 - Third Quarter 2021**  
 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 <sup>A</sup> (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks <sup>A</sup> (pounds)
No Pumping/Skimming from Product Recovery System Well During 3rd Quarter 2021								

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

**Legend / Notes:**

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

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

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

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

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

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

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

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
02/03/12		--	--	120	340	--	--	--	--	--	--	--	--	--	--
02/17/12		--	--	--	--	10	<0.50	1.5	7.4	1.2	15	1.2	0.39	<2.0	<2.0
02/24/12		--	--	180	--	26	<0.50	1.0	7.0	1.2	<10	1.2	0.41	<2.0	<2.0
03/02/12		--	--	--	--	23	<0.50	1.4	11	2.4	8.7	1.4	0.47	<2.0	<2.0
03/06/12		--	--	--	--	28	<0.50	1.0	9.0	1.7	13	1.1	0.37	<2.0	<2.0
06/15/12		--	--	--	--	39	13	17	88	26	<10	1.3	0.52	<2.0	<2.0
08/31/12		--	--	820	940	--	--	--	--	--	--	--	--	--	--
09/27/12		--	--	5,300	3,800	--	--	--	--	--	--	--	--	--	--
10/23/12		--	--	--	--	67	60	110	460	140	<10	<0.50	<2.0	<2.0	<2.0
01/31/13		--	--	3,600	--	--	--	--	--	--	--	--	--	--	--
05/01/13		--	--	6,300	5,500	20	4.7	8.0	41	14	4.8	0.56	<2.0	<2.0	<2.0
07/12/13		--	--	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
08/20/13		--	--	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
12/19/13		--	--	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
02/07/14		--	--	1,500	2,300	--	--	--	--	--	--	--	--	--	--
03/21/14		--	--	--	--	61	5.1	23	150	45	<10	0.87	<2.0	<2.0	<2.0
05/29/14	1	--	8015M & 8260B	--	--	29	1.0	30	180	45	<10	1.0	<2.0	<2.0	<2.0
07/09/14	2	GW-15, GW-16	8015M & 8260B	720	1,800	82	3.8	27	110	31	<7.0	<0.40	<0.50	<0.40	<0.30
08/13/14		GW-15, GW-16	8015M & 8260B	150	1,500	57	3.7	30	130	36	<7.0	0.77	<0.50	<0.40	<0.30
09/17/14		GW-15, GW-16	8015M & 8260B	800	3,500	23	0.73	20	170	40	<7.0	0.83	<0.50	<0.40	<0.30
10/20/14		GW-15, GW-16	8015M & 8260B	560	3,600	31	2.2	40	240	54	<7.0	0.6	<0.50	<0.40	<0.30
11/17/14	3,4,1	GW-15, GW-16	8015M & 8260B	260	1,400	21	0.71	10	62	18	<7.0	<0.40	<0.50	<0.40	<0.30
12/17/14	4,1	GW-15, GW-16	8015M & 8260B	190	880	23	0.66	8.8	48	14	<7.0	<0.40	<0.50	<0.40	<0.30
01/14/15	4,1	GW-15, GW-16	8015M & 8260B	4,600	3,800	150	2.8	29	130	37	<7.0	<0.40	<0.50	<0.40	<0.30
02/20/15	4,1	GW-15, GW-16	8015M & 8260B	2,500	8,100	230	9.8	220	880	220	<7.0	0.45	<0.50	<0.40	<0.30
03/27/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	620	980	9.9	<0.30	2.7	18	5.9	<7.0	1.0	<0.50	<0.40	<0.30

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

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



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

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
07/19/17	5	GW-2, GW-15, GW-16	8015M & 8260B	<b>75 J</b>	<40	<b>3.4</b>	<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	<b>80 J</b>	<40	<b>4.0</b>	<0.30	<0.20	<0.40	<0.30	<7.0	<b>0.88 J</b>	<0.50	<0.40	<0.30
09/13/17		GW-2, GW-15, GW-16	8015M & 8260B	<b>84 J</b>	<40	<0.20	<0.30	<0.20	<0.40	<0.30	<7.0	<b>0.69 J</b>	<0.50	<0.40	<0.30
10/16/17		GW-2, GW-15, GW-16	8015M & 8260B	<b>64 J</b>	<40	<b>3.7</b>	<0.30	<0.20	<0.40	<0.30	<7.0	<b>0.54 J</b>	<0.50	<0.40	<0.30
11/13/17		GW-2, GW-15, GW-16	8015M & 8260B	<b>78 J</b>	<40	<b>4.5</b>	<0.30	<0.20	<0.40	<0.30	<7.0	<b>0.54 J</b>	<0.50	<0.40	<0.30
12/11/17	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	<b>2.8</b>	<0.30	<0.20	<0.40	<0.30	<b>8.8 J</b>	<0.40	<0.50	<0.40	<0.30
01/11/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<b>73 J</b>	<40	<b>2.0</b>	<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	<b>130</b>	<40	<b>5.3</b>	<0.30	<0.20	<0.40	<0.30	<7.0	<b>0.49 J</b>	<0.50	<0.40	<0.30
03/20/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	<b>4.4</b>	<0.30	<0.20	<0.40	<0.30	<7.0	<b>0.47 J</b>	<0.50	<0.40	<0.30
04/02/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<b>65 J</b>	<40	<b>2.9</b>	<0.30	<0.20	<0.40	<0.30	<7.0	<b>0.50 J</b>	<0.50	<0.40	<0.30
05/02/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<b>130</b>	<40	<b>2.5</b>	<0.30	<0.20	<0.40	<0.30	<7.0	<b>0.74 J</b>	<0.50	<0.40	<0.30
06/04/18		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	<b>0.74</b>	<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	<b>1.1</b>	<0.30	<0.20	<0.40	<0.30	<7.0	<b>0.41 J</b>	<0.50	<0.40	<0.30
08/06/18		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	<b>3.1</b>	<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	<b>0.38 J</b>	<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	<b>2.4</b>	<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	<b>2.0</b>	<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	<b>170</b>	<100	<0.5	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0
01/08/19		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	--	<40	<b>1.4</b>	<0.30	<0.20	<0.40	<0.30	<7.0	<b>0.92 J</b>	<0.50	<0.40	<0.30
02/06/19	9	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	<b>1.4</b>	<0.30	<0.20	<b>0.52 J</b>	<0.30	<7.0	<b>0.49 J</b>	<0.50	<0.40	<0.30
01/30/20	10,11	GW-13, GW-15, GW-16	8015B	<b>790</b>	--	--	--	--	--	--	--	--	--	--	--
03/11/20	10,11	GW-15, GW-16	8015B & EPA 624	<b>370</b>	--	<5	<5	<5	<1	<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	<b>610</b>	<b>490</b>	<b>46</b>	<5	<5	<10	<5	<10	<5	<5	<1.0	<1.0
06/24/20		GW-16, GMW-31, GW-14R	8015B & EPA 624	<b>850</b>	<b>640</b>	<b>79</b>	<5	<5	<10	<5	<b>12</b>	<b>6.4</b>	<5	<1.0	<1.0
07/24/20	12	GW-16, GMW-31, GW-14R	8015B & EPA 624	<b>1,000</b>	<b>150</b>	<b>6.2</b>	<5	<5	<10	<5	<b>18</b>	<5	<5	<1.0	<1.0

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

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
11/24/20	12	GW-16, GMW-31, GW-14R	8015B & EPA 624	<b>430</b>	<b>190</b>	<b>5.3</b>	<5	<5	<10	<5	<b>12</b>	<5	<5	<1.0	<1.0
01/28/21	13	GW-16, GMW-31, GW-14R	8015B & EPA 624	<b>860</b>	<b>410</b>	<b>34</b>	<5	<5	<10	<5	<b>25</b>	<5	<5	<1.0	<1.0
02/10/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	<b>1,500</b>	<b>740</b>	<b>48</b>	<5	<5	<10	<5	<b>30</b>	<b>5.2</b>	<5	<1.0	<1.0
05/05/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	<b>470</b>	<b>190</b>	<b>8.6</b>	<5	<5	<10	<5	<b>14</b>	<5	<5	<1.0	<1.0
06/11/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	<b>540</b>	<b>260</b>	<b>7.0</b>	<5	<5	<10	<5	<b>17</b>	<5	<5	<1.0	<1.0
07/09/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	<b>480</b>	<b>250</b>	<b>6.2</b>	<5	<5	<10	<5	<b>21</b>	<5	<5	<1.0	<1.0
08/18/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	<b>500</b>	<b>110</b>	<5	<5	<5	<10	<5	<b>26</b>	<5	<5	<1.0	<1.0
09/27/21		GMW-31, GW-14R	8015B & EPA 624	<b>800</b>	<b>220</b>	<5	<5	<5	<10	<5	<b>33</b>	<5	<5	<1.0	<1.0

**Legend / Notes:**

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

GWETS = Groundwater extraction and treatment system  
 TPHd = Total petroleum hydrocarbons as diesel  
 ETBE = Ethyl tertiary-butyl ether  
 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.



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

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

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

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

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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Depth for Horizontal Wells or Interval in Feet Below Grade for Vertical Wells					
			HW-1	HW-3 **	HW-5	HW-7 **	HW-8	HW-9
			25	25	25	25	60	220
07/16/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -50	--	--	--	--	--	--
07/30/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -50	--	--	--	--	--	--
08/29/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -50	--	--	--	--	--	--
12/03/18	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30,-32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	--	--	--	--	--
01/25/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30,-32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	1,127	--	375	474	--	--
02/12/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30,-32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	1,845	--	696	718	--	--
03/06/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30,-32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	1,309	--	1,115	939	--	--
03/12/19	15,17	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30,-32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	--	--	--	--	--
03/20/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30,-32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	591	--	234	730	--	--
03/26/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30,-32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	--	--	--	--	--
04/09/19	15,18	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30,-32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	>15,000	--	1,541	1,725	--	--
11/25/19	19,20	HW-1, HW-5, HW-7, HW-8, HW-9	730	--	501	730	--	1,820
12/16/19		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

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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Depth for Horizontal Wells or Interval in Feet Below Grade for Vertical Wells					
			HW-1	HW-3 **	HW-5	HW-7 **	HW-8	HW-9
			25	25	25	25	60	220
03/24/20		HW-1, HW-5, HW-7, HW-8, HW-9	339	--	57	156	6	2,681
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**  
**Historical Summary of Field Vapor Readings - Former Tank Farm Horizontal Wells**  
 DFSP, Norwalk  
 15306 Norwalk Blvd., Norwalk, CA

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Depth for Horizontal Wells or Interval in Feet Below Grade for Vertical Wells					
			HW-1	HW-3 **	HW-5	HW-7 **	HW-8	HW-9
			25	25	25	25	60	220
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
8/31/21		HW-1, HW-9, HW-5, HW-7	13	--	18	46	--	455

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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Depth for Horizontal Wells or Interval in Feet Below Grade for Vertical Wells					
			HW-1	HW-3 **	HW-5	HW-7 **	HW-8	HW-9
			25	25	25	25	60	220
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

**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.

\* = 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**  
**Historical 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 #5, VECV #15				Truckline #4, VECV #16				Truckline #6, VECV #18				Truckline #5, VECV #19				Truckline #5, VECV #20												
			TFR-21	TFR-26	TFR-27	TFR-28	TFR-34	TF-18	RTF-18-E	RTF-18-W	RTF-18-NW	RTF-18-NW	TFR-20	TFR-23	TFR-24	TFR-30	TFR-33	TFR-29	TFR-32	TFR-35	TFR-37	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		
06/27/18	1.2	HW-1, HW-5, HW-7, VEV-38, VEV-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
7/16/2018	1.2	HW-1, HW-5, HW-7, VEV-38, VEV-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
7/30/2018	1.2	HW-1, HW-5, HW-7, VEV-38, VEV-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
08/30/18	1.2	HW-1, HW-5, HW-7, VEV-38, VEV-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/03/18	1.2	HW-1, HW-5, HW-7, RW-1, 4, -5, -9, -10, -11, -14, -18, VEV-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -51, TFR-5, 7, -9, -10, -11, -13, -16, -30, -33, -35, -36, -37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/28/19	1.2	HW-1, HW-5, HW-7, RW-1, 4, -5, -9, -10, -11, -14, -18, VEV-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/03/19	1.2	HW-1, HW-5, HW-7, RW-1, 4, -5, -9, -10, -11, -14, -18, VEV-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -51, TFR-5, 7, -9, -10, -11, -13, -16, -30, -33, -35, -36, -37	--	--	--	--	--	--	--	--	--	--	--	--	7,520	17,360	--	--	5	4	--	--	15,540	--	--	9	3,950	--	--	556	120	3,290	1,457	71	--	--			
06/05/19	1.2	HW-1, HW-5, HW-7, RW-1, 4, -5, -9, -10, -11, -14, -18, VEV-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -51, TFR-5, 7, -9, -10, -11, -13, -16, -30, -33, -35, -36, -37	--	--	--	--	--	6,960	9,150	4,060	--	--	32,760	9,990	13,510	13,850	--	--	--	--	16,230	19,200	22,980	32,760	--	--	7,530	--	2,450	203	--	3,260	1,890	--	1,020	--	--		
07/22/19		(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)	23,400	11,410	6,560	3,280	866	3,020	4,460	2,100	813	1,667	--	--	32,760	12,600	11,250	32,760	--	--	--	--	9,420	7,780	19,760	32,760	--	--	3,790	460	1,180	154	--	2,310	2,410	--	1,470		
08/26/19	4	(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)	2,040	382	578	4	146	3,060	2,960	2,150	510	3,180	59	2,230	32,760	7,350	5,270	6,480	40	22	13	24	7,050	6,100	16,220	32,760	98	11	2,760	709	939	95	35	1,715	1,740	26	942		
09/23/19		(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)	6,530	3,520	2,560	--	383	3,150	3,700	3,380	348	3,070	--	529	32,760	3,400	1,840	14,420	--	--	--	--	5,040	4,230	12,600	28,450	--	--	1,811	318	260	51	--	1,245	1,220	--	1,218		
12/06/19	4	(TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12)	7,350	4,360	3,056	2,745	574	3,220	6,060	4,960	4,210	3,490	10	2,260	24,000	5,960	3,730	22,400	68	144	28	118	5,180	3,008	11,480	24,000	204	4	4,030	359	814	8	7	1,226	1,460	24	938		
01/08/20		(TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12)	8,400	4,260	3,400	2,600	800	5,530	4,330	5,750	1,500	3,180	--	4,000	27,950	6,100	3,200	--	--	--	--	4,300	2,400	11,640	28,000	--	--	4,800	150	960	--	--	1,375	1,520	--	310			
03/05/20	4	(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, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15, TFR-16), (TFR-7, TFR-9, TFR-12)	6,920	3,250	1,916	3,238	660	4,620	3,410	2,612	162	1,946	6	1,074	27,850	4,370	2,688	4,080	85	3,940	42	46	3,064	2,560	11,180	32,760	442	8	3,080	74	1,140	12	2	1,320	1,222	15	116		
05/01/20		(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)	6,140	2,512	1,650	2,170	546	3,372	3,446	3,476	1,286	1,886	--	1,520	21,530	5,296	1,970	--	--	--	--	3,123	2,136	10,532	29,750	--	--	2,460	146	574	--	--	572	715	--	197			
06/02/20		(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)	5,720	2,130	1,490	2,210	335	1,845	2,450	1,810	36	1,254	--	1,135	19,750	3,780	2,036	--	--	--	--	2,610	1,930	7,820	--	--	1,686	224	220	--	--	306	424	--	155				
09/30/20	4	(TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12)	5,780	1,958	702	964	300	1,100	2,040	1,044	120	1,630	58	184	19,180	1,374	590	7,800	120	62	54	72	1,208	936	6,590	27,830	2,062	36	1,000	100	70	32	22	138	272	20	274		
10/22/20		(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, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12)	5,960	2,234	802	1,355	304	890	1,878	636	164	1,455	52	286	20,150	1,550	725	5,680	--	--	--	--	1,076	930	6,780	27,400	10,950	--	1,226	120	76	--	--	132	312	--	404		
01/21/21	4	(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, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12)	1,588	572	668	286	96	444	3,426	3,674	564	3,650	6	38	10,430	596	746	8,130	--	--	--	--	1,412	822	2,674	17,420	6,190	4	2,343	280	278	6	0	388	536	2	462		

**TABLE 9B**  
**Historical 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

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

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

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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade																							
			Truckline #1, VECV #1					Truckline #1, VECV #2					Truckline #1, VECV #3					Truckline #1, VECV #4				Truckline #1, VECV #5				
			RW-1	RW-6	RW-15	RW-16	RW-17	VEW-32	VEW-37	RW-2	RW-7	RW-11	VEW-33	VEW-36	RW-8	RW-12	RW-18	VEW-34	VEW-35	RW-13	RW-14	RW-3	RW-4	RW-5	RW-9	RW-10
			15 - 35	17 - 37	18 - 38	14 - 34	19 - 39	10 - 25	10 - 25	13 - 33	17 - 37	16 - 36	10 - 25	10 - 25	16.5 - 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	2,824	>10,000
07/16/18	4,5	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	725	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/30/18	4,5	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	--	--	--	--	--	--	--	401	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/29/18	4,5	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	--	--	--	--	--	--	--	475	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/03/18	4,5	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	--	--	--	--	--	--	--	--	641	--	--	--	--	952	--	--	--	8,157	--	--	>15,000	>15,000	>15,000
03/12/19	3,6	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	190	0	0	16	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/27/19	3,6	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	838	0	--	--	--	--	--	402	--	1,172	--	--	--	--	992	--	--	13,772	--	--	1,021	1,850	6,280	2,150
06/05/19	3	RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	574	--	--	--	--	--	--	--	10	--	--	--	--	--	420	--	--	3,420	--	--	776	1,083	4,210	1,143
07/23/19		(RW-1), (RW-11), (RW-18), (RW-13), (RW-4), RW-5, RW-9, RW-10)	643	--	--	--	--	--	--	--	6	--	--	--	--	--	130	--	--	724.0	--	--	851	805	2,750	1,238
08/26/19	7	(RW-1), (RW-18), (RW-13), (RW-4), RW-5, RW-9, RW-10)	678	2	3	19	3	--	--	33	52	5	--	40.0	37	7	7	13.0	7.0	1,520	1,380	522	430	512	1,455	
09/23/19		(RW-1), (RW-18), (RW-13), (RW-4), RW-5, RW-9, RW-10)	682	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	177	258	306	179	145	679	

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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade																							
			Truckline #1, VECV #1					Truckline #1, VECV #2					Truckline #1, VECV #3					Truckline #1, VECV #4					Truckline #1, VECV #5			
			RW-1	RW-6	RW-15	RW-16	RW-17	VEW-32	VEW-37	RW-2	RW-7	RW-11	VEW-33	VEW-36	RW-8	RW-12	RW-18	VEW-34	VEW-35	RW-13	RW-14	RW-3	RW-4	RW-5	RW-9	RW-10
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

**Legend / Notes:**

GRO = Gasoline range organics      ppmv = Parts per million by volume      OVA = Organic Vapor Analyzer      -- = Readings not taken      VES = Vapor extraction system  
 Concentrations measured using calibrated field OVA.  
 1 = Wells RW-1, RW-2, RW-7, RW-9, RW-12, RW-13 and RW-18 initially tied into carbon VES during early August 2017 following installation per SGI's June 30, 2017 *Remediation Well Installation Update Report*.  
 2 = For full list of wells on line, see SGI's November 15, 2017 *Remediation Status Report - Third Quarter 2017* and February 15, 2018 *Remediation Status Report - Fourth Quarter 2017*, respectively.  
 3 = See Tables 9A, 9B and 9D for applicable HW, VEW and RW on line well field vapor readings.  
 4 = Wells RW-1, RW-2, RW-7, RW-9, RW-12, RW-13 and RW-18 disconnected from carbon VES and tied into thermal oxidizer VES upon 01/08/18 startup.  
 5 = Wells RW-3 through RW-6, RW-8, RW-10, RW-11, and RW-14 through RW-17 tied into thermal oxidizer VES during mid-February 2018 following installation per SGI's June 30, 2017 *Remediation Well Installation Update Report*.  
 6 = New Thermal Oxidizer system startup on 3/13/19.  
 7 = Closed wells were opened to check for rebound concentrations.  
 \* = Carbon VES only through 2017 and also includes thermal oxidizer VES wells online after 2017.



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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade																																
			Trunkline #2, VECV #6		Trunkline #2, VECV #7				Trunkline #2, VECV #8				Trunkline #2, VECV #9				Trunkline #2, VECV #10				Trunkline #2, VECV #11				Trunkline #2, VECV #12				Trunkline #2, VECV #13						
			RW-21	RW-23	VEW-39	RW-30	RW-31	RW-32	RW-34	VEW-38	VEW-40	RW-26	RW-28	RW-24	RW-25	RW-27	RW-33	RW-43	RW-19	RW-20	RW-22	RW-29	RW-45	RW-35	RW-36	RW-39	RW-40	RW-44	RW-36	RW-37	RW-41	RW-42	RW-46	RW-47	RW-48
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

**Legend / Notes:**

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



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

Well ID	Sample Date	Notes	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
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	17.0	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		
HW-3 *	07/09/14	1	8015 & 8260B	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	8015 & 8260B	140	46	190	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	10/23/14			2.9	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	04/27/15			400	290	1,200	0.17	0.55	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	0.30	1.3	<0.55	<2.0
	08/10/15			676	930	3,800	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	02/08/16			300	320	1,300	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	04/06/16			260	210	870	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/08/16			190	120	480	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	01/18/17	2		180	85	300	0.34	1.1	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	11/02/17			105	39	160	0.21	0.7	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	02/12/18			75	90	370	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	03/28/18			91	140	560	0.63	2.0	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/06/18			--	100	410	0.50	1.6	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	02/12/19			696	270	1,100	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	11/25/19			501	170	710	0.56	1.8	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	02/18/20			4	<4.9	<20	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	05/15/20			8	<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		6	<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		



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

Well ID	Sample Date	Notes	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		MTBE		
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	
HW-7 *	07/09/14	1	8015 & 8260B	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	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	04/27/15	810		590	2,400	3.4	11	0.69	2.6	0.32	1.4	0.20	0.88	1.2	5.0	<0.55	<2.0		
	08/10/15	732		950	3,900	6.3	20	0.34	1.3	0.64	2.8	0.30	1.3	2.3	10	<0.55	<2.0		
	02/08/16	240		190	780	1.2	3.8	0.37	1.4	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	04/06/16	220		170	710	1.4	4.4	0.53	2.0	<0.12	<0.50	<0.12	<0.50	0.28	1.2	<0.55	<2.0		
	08/08/16	230		170	710	2.0	6.5	0.56	2.1	<0.12	<0.50	<0.12	<0.50	0.32	1.4	<0.55	<2.0		
	01/18/17	2		200	110	370	2.0	6.5	0.82	3.1	0.12	0.52	0.12	0.51	0.35	1.5	<0.55	<2.0	
	05/03/17	260		240	1,000	2.1	6.6	1.2	4.6	0.15	0.64	0.15	0.66	0.51	2.2	<0.55	<2.0		
	11/02/17	334		210	860	2.3	7.4	1.2	4.4	0.18	0.78	0.16	0.68	0.51	2.2	<0.55	<2.0		
	02/12/18	290		230	960	1.3	4.0	0.48	1.8	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	03/28/18	270		190	760	0.59	1.9	0.21	0.79	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	08/06/18	--		210	840	1.30	4.2	0.80	3.00	0.12	0.53	0	1	0	2	<0.55	<2.0		
	02/12/19	696		240	1,000	2.30	7.2	0.88	3.30	0.14	0.60	0	1	0	2	<0.55	<2.0		
	11/25/19	730		240	1,000	0.53	1.7	0.42	1.60	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0		
	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	34.0	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				
HW-8	11/25/19	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	02/18/20	3	<4.9	<20	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0			
	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			
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				
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			

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

Well ID	Sample Date	Notes	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
VEW-33	02/08/16		8015 & 8260B	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
VEW-34	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
VEW-35	04/27/15			4.8	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/10/15			16.4	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/17			4.5	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-36	07/09/14	1		6.4	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	10/23/14			9.1	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	04/27/15			5.7	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/10/15			2.2	8.1	33	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/17			6.7	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-37	07/09/14	1		20	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	10/23/14			151	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	04/27/15			2.4	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/10/15		3.9	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	06/27/17		5.7	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
VEW-38	06/27/17	3	331	37	150	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	07/27/17		--	490	2,000	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	09/07/17		480	440	1,800	<0.16	<0.50	<0.13	<0.50	0.17	0.74	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	06/27/18	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	



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

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



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

Well ID	Sample Date	Notes	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
RW-32	08/16/17	5	8015 & 8260B	<b>820</b>	<b>880</b>	<b>3,600</b>	<0.16	<0.50	<0.13	<0.50	<b>0.78</b>	<b>3.4</b>	<0.12	<0.50	<b>0.28</b>	<b>1.2</b>	<0.55	<2.0
	09/07/17			<b>715</b>	<b>810</b>	<b>3,300</b>	<b>0.17</b>	<b>0.54</b>	<0.13	<0.50	<b>0.55</b>	<b>2.4</b>	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/18	4		<b>421</b>	<b>66</b>	<b>270</b>	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-33	08/16/17	5		<b>1,230</b>	<b>860</b>	<b>3,500</b>	<0.16	<0.50	<0.13	<0.50	<b>0.44</b>	<b>1.9</b>	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	09/07/17			<b>836</b>	<b>640</b>	<b>2,600</b>	<0.16	<0.50	<0.13	<0.50	<b>0.35</b>	<b>1.5</b>	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/18	4		<b>843</b>	<b>210</b>	<b>840</b>	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-34	06/27/18	4		<b>46</b>	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-35	06/27/18	4		<b>416</b>	<b>83</b>	<b>340</b>	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-36	06/27/18	4		<b>452</b>	<b>440</b>	<b>1,800</b>	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<10
RW-37	06/27/18	4		<b>1,509</b>	<b>210</b>	<b>850</b>	<0.31	<1.0	<0.27	<1.0	<0.23	<1.0	<0.23	<1.0	<0.46	<2.0	<1.1	<4.0
RW-38	06/27/18	4		<b>134</b>	<b>24</b>	<b>100</b>	<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		<b>24</b>	<b>37</b>	<b>150</b>	<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		<b>1,782</b>	<b>2,900</b>	<b>12,000</b>	<0.78	<2.5	<0.66	<2.5	<b>0.78</b>	<b>3.4</b>	<0.58	<2.5	<1.2	<5.0	<2.8	<10
RW-41	06/27/18	4		<b>849</b>	<b>1,300</b>	<b>5,300</b>	<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		<b>3,040</b>	<b>1,500</b>	<b>6,200</b>	<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		<b>886</b>	<b>230</b>	<b>950</b>	<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		<b>728</b>	<b>88</b>	<b>360</b>	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<b>2.2</b>	<b>9.4</b>	<b>0.60</b>	<b>2.6</b>	<0.55	<2.0
RW-45	06/27/18	4		<b>56</b>	<b>14</b>	<b>57</b>	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<b>0.12</b>	<b>0.50</b>	<0.23	<1.0	<0.55	<2.0
RW-46	06/27/18	4		<b>191</b>	<b>44</b>	<b>180</b>	<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		<b>751</b>	<b>240</b>	<b>1,000</b>	<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		<b>1,454</b>	<b>540</b>	<b>2,200</b>	<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		<b>823</b>	<b>180</b>	<b>720</b>	<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		<b>5,000</b>	<b>1,600</b>	<b>6,500</b>	<0.78	<2.5	<0.66	<2.5	<b>1.2</b>	<b>5.0</b>	<0.58	<2.5	<1.2	<5.0	<2.8	<10
RTF-18-NW	10/05/17	7		<b>9,000</b>	<b>16,000</b>	<b>67,000</b>	<b>100</b>	<b>330</b>	<b>0.18</b>	<b>0.66</b>	<b>12</b>	<b>52</b>	<b>13</b>	<b>56</b>	<b>60</b>	<b>260</b>	<0.55	<2.0
	10/09/17	7		<b>3,635</b>	<b>18,000</b>	<b>72,000</b>	<b>170</b>	<b>550</b>	<1.3	<5.0	<b>17</b>	<b>75</b>	<b>19</b>	<b>83</b>	<b>92</b>	<b>400</b>	<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 - July**  
 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)
07/01/21	*		13993.7	--	--	--	--	--	--	--
07/02/21	*		14017.4	--	--	--	--	--	--	--
07/03/21	*		14041.1	--	--	--	--	--	--	--
07/04/21	*		14064.7	--	--	--	--	--	--	--
07/05/21	*		14088.4	--	--	--	--	--	--	--
07/06/21	*		14112.1	--	--	--	--	--	--	--
07/07/21	*		14135.7	--	--	--	--	--	--	--
07/08/21	Technician		14159.4	12	225	106	9	8.0	7	99
07/09/21	*		14183.9	--	--	--	--	--	--	--
07/10/21	*		14208.4	--	--	--	--	--	--	--
07/11/21	*		14232.9	--	--	--	--	--	--	--
07/12/21	*		14257.4	--	--	--	--	--	--	--
07/13/21	Technician		14281.9	10	230	116	8	9.0	7	110
07/14/21	*		14305.9	--	--	--	--	--	--	--
07/15/21	*		14329.9	--	--	--	--	--	--	--
07/16/21	*		14353.9	--	--	--	--	--	--	--
07/17/21	*		14377.9	--	--	--	--	--	--	--
07/18/21	*		14401.9	--	--	--	--	--	--	--
07/19/21	*		14425.8	--	--	--	--	--	--	--
07/20/21	*		14449.8	--	--	--	--	--	--	--
07/21/21	*		14473.8	--	--	--	--	--	--	--
07/22/21	*		14497.8	--	--	--	--	--	--	--
07/23/21	Technician		14521.8	10	220	106	8	9.0	8	103
07/24/21	*		14545.7	--	--	--	--	--	--	--
07/25/21	*		14569.5	--	--	--	--	--	--	--
07/26/21	*		14593.4	--	--	--	--	--	--	--
07/27/21	*		14617.2	--	--	--	--	--	--	--
07/28/21	*		14641.1	--	--	--	--	--	--	--
07/29/21	Technician		14664.9	12	230	109	9	8.5	8	103
07/30/21	*		14689.4	--	--	--	--	--	--	--
07/31/21	*		14713.9	--	--	--	--	--	--	--

**Legend / Notes:**

System operating under SCAQMD Various Locations Permit #G52288

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

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

psig = pounds per square inch  
 in. WC = inches of water column  
 °F = Degrees Fahrenheit  
 NA = Not available  
 HE = Heat Exchanger  
 -- = Not applicable or not measured  
 \* = Operational values interpolated from chart recorder data or previous monitoring event.



**TABLE 11B**  
**Biosparge System Operations Summary - August**  
 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)
08/01/21	*		14738.3	--	--	--	--	--	--	--
08/02/21	*		14762.8	--	--	--	--	--	--	--
08/03/21	Technician		14787.3	10	230	114	8	8.5	7.5	110
08/04/21	*		14810.0	--	--	--	--	--	--	--
08/05/21	*		14834.0	--	--	--	--	--	--	--
08/06/21	*		14858.0	--	--	--	--	--	--	--
08/07/21	*		14882.1	--	--	--	--	--	--	--
08/08/21	*		14906.1	--	--	--	--	--	--	--
08/09/21	*		14930.1	--	--	--	--	--	--	--
08/10/21	*		14954.1	--	--	--	--	--	--	--
08/11/21	*		14978.2	--	--	--	--	--	--	--
08/12/21	Technician		15002.2	10	220	108	7	8.5	7.0	108
08/13/21	*		15026.2	--	--	--	--	--	--	--
08/14/21	*		15050.2	--	--	--	--	--	--	--
08/15/21	*		15074.1	--	--	--	--	--	--	--
08/16/21	*		15098.1	--	--	--	--	--	--	--
08/17/21	*		15122.1	--	--	--	--	--	--	--
08/18/21	*		15146.1	--	--	--	--	--	--	--
08/19/21	*		15170.1	--	--	--	--	--	--	--
08/20/21	*		15194.0	--	--	--	--	--	--	--
08/21/21	*		15218.0	--	--	--	--	--	--	--
08/22/21	*		15242.0	--	--	--	--	--	--	--
08/23/21	*		15266.0	--	--	--	--	--	--	--
08/24/21	*		15289.9	--	--	--	--	--	--	--
08/25/21	*		15313.9	--	--	--	--	--	--	--
08/26/21	Technician		15337.9	10	230	115	7	8.5	7.0	112
08/27/21	*		15362.1	--	--	--	--	--	--	--
08/28/21	*		15386.3	--	--	--	--	--	--	--
08/29/21	*		15410.5	--	--	--	--	--	--	--
08/30/21	*		15434.8	--	--	--	--	--	--	--
08/31/21	*		15459.0	--	--	--	--	--	--	--

**Legend / Notes:**

System operating under SCAQMD Various Locations Permit #G52288

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

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

psig = pounds per square inch  
 in. WC = inches of water column  
 °F = Degrees Fahrenheit  
 NA = Not available  
 HE = Heat Exchanger  
 -- = Not applicable or not measured  
 \* = Operational values interpolated from chart recorder data or previous monitoring event.



**TABLE 11C**  
**Biosparge System Operations Summary - September**  
 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)
09/01/21	*		15,483.2	--	--	--	--	--	--	--
09/02/21	*		15,507.4	--	--	--	--	--	--	--
09/03/21	*		15,531.6	--	--	--	--	--	--	--
09/04/21	*		15,555.8	--	--	--	--	--	--	--
09/05/21	*		15,580.1	--	--	--	--	--	--	--
09/06/21	*		15,604.3	--	--	--	--	--	--	--
09/07/21	*		15,628.5	--	--	--	--	--	--	--
09/08/21	*		15,652.7	--	--	--	--	--	--	--
09/09/21	*		15,676.9	--	--	--	--	--	--	--
09/10/21	*		15,701.1	--	--	--	--	--	--	--
09/11/21	*		15,725.4	--	--	--	--	--	--	--
09/12/21	*		15,749.6	--	--	--	--	--	--	--
09/13/21	*		15,773.8	--	--	--	--	--	--	--
09/14/21	*		15,798.0	--	--	--	--	--	--	--
09/15/21	*		15,822.2	--	--	--	--	--	--	--
09/16/21	*		15,846.4	--	--	--	--	--	--	--
09/17/21	*		15,870.7	--	--	--	--	--	--	--
09/18/21	*		15,894.9	--	--	--	--	--	--	--
09/19/21	*		15,919.1	--	--	--	--	--	--	--
09/20/21	Technician	1	15,943.3	11	240	118	8	8.5	7.5	109
09/21/21	*		15,964.2	--	--	--	--	--	--	--
09/22/21	*		15,985.1	--	--	--	--	--	--	--
09/23/21	*		16,005.9	--	--	--	--	--	--	--
09/24/21	*		16,026.8	--	--	--	--	--	--	--
09/25/21	*		16,047.7	--	--	--	--	--	--	--
09/26/21	*		16,068.6	--	--	--	--	--	--	--
09/27/21	*	2	16,089.4	--	--	--	--	--	--	--
09/28/21	Technician	3	16,110.3	10	215	102	10	8.4	9.5	95
09/29/21	*		16,123.0	--	--	--	--	--	--	--
09/30/21	*		16,135.7	--	--	--	--	--	--	--

**Legend / Notes:**

System operating under SCAQMD Various Locations Permit #G52288

- 1 = Biosparge survey was conducted in the Eastern 15-acre parcel to confirm system optimization and zone of influence.
- 2 = Biosparge system automatically shut down due to suspected power outage.
- 3 = Biosparge system restarted.

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

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

psig = pounds per square inch

in. WC = inches of water column

°F = Degrees Fahrenheit

NA = Not available

HE = Heat Exchanger

-- = Not applicable or not measured

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



**APPENDIX A**

**LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS**





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

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July 13, 2021

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013  
A5334104 / 1G07023**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/07/21 16:16 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile  
Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334104  
**Date Received:** 07/07/21  
**Date Reported:** 07/13/21

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

VES After GAC-1	1G07023-01	Vapor	5	07/07/21 13:39	07/07/21 16:16
VES After GAC-2	1G07023-02	Vapor	5	07/07/21 13:38	07/07/21 16:16

**VOCs Gasoline Range Organics Vapor**

VES After GAC-1	1G07023-01	Vapor	5	07/07/21 13:39	07/07/21 16:16
VES After GAC-2	1G07023-02	Vapor	5	07/07/21 13:38	07/07/21 16:16

**VOCs in Vapor as Hexane**

VES After GAC-1	1G07023-01	Vapor	5	07/07/21 13:39	07/07/21 16:16
VES After GAC-2	1G07023-02	Vapor	5	07/07/21 13:38	07/07/21 16:16

**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:** A5334104**Date Received:** 07/07/21**Date Reported:** 07/13/21**Sampled:** 07/07/21**Prepared:** 07/08/21**Analyzed:** 07/08/21**VES After GAC-1****1G07023-01 (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

93.8 %

70-140

Dibromofluoromethane

96.4 %

70-140

Toluene-d8

95.0 %

70-140

**Viorel Vasile**  
Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334104  
**Date Received:** 07/07/21  
**Date Reported:** 07/13/21  
**Sampled:** 07/07/21  
**Prepared:** 07/08/21  
**Analyzed:** 07/08/21

**VES After GAC-2**  
**1G07023-02 (Vapor)**

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	94.6 %	70-140
Dibromofluoromethane	101 %	70-140
Toluene-d8	94.0 %	70-140

**Viorel Vasile**  
 Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334104  
**Date Received:** 07/07/21  
**Date Reported:** 07/13/21  
**Sampled:** 07/07/21  
**Prepared:** 07/08/21  
**Analyzed:** 07/08/21

**VES After GAC-1**

**1G07023-01 (Vapor)**

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

**Viorel Vasile**  
Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334104  
**Date Received:** 07/07/21  
**Date Reported:** 07/13/21  
**Sampled:** 07/07/21  
**Prepared:** 07/08/21  
**Analyzed:** 07/08/21

**VES After GAC-2**

**1G07023-02 (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	113 %	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:** A5334104  
**Date Received:** 07/07/21  
**Date Reported:** 07/13/21  
**Units:** ppmv

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<b>Date Sampled:</b>	07/07/21	07/07/21	
<b>Date Prepared:</b>	07/08/21	07/08/21	
<b>Date Analyzed:</b>	07/08/21	07/08/21	
<b>AA ID No:</b>	1G07023-01	1G07023-02	
<b>Client ID No:</b>	VES After GAC-1	VES After GAC-2	
<b>Matrix:</b>	Vapor	Vapor	
<b>Dilution Factor:</b>	1	1	MRL

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#### 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:** A5334104  
**Date Received:** 07/07/21  
**Date Reported:** 07/13/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B1G0815 - *** DEFAULT PREP ***</i>										
<b>Blank (B1G0815-BLK1)</b>				Prepared & Analyzed: 07/08/21						
Benzene	<0.25	0.25	ug/L							
Ethylbenzene	<0.25	0.25	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L							
Toluene	<0.25	0.25	ug/L							
o-Xylene	<0.25	0.25	ug/L							
m,p-Xylenes	<0.50	0.50	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	46.6		ug/L	50.0		93.3	70-140			
<i>Surrogate: Dibromofluoromethane</i>	48.3		ug/L	50.0		96.7	70-140			
<i>Surrogate: Toluene-d8</i>	47.4		ug/L	50.0		94.8	70-140			
<b>LCS (B1G0815-BS1)</b>				Prepared & Analyzed: 07/08/21						
Benzene	<b>17.2</b>	0.50	ug/L	20.0		86.1	75-125			
Ethylbenzene	<b>22.0</b>	0.50	ug/L	20.0		110	75-125			
Methyl-tert-Butyl Ether (MTBE)	<b>36.2</b>	2.0	ug/L	40.0		90.5	75-125			
Toluene	<b>20.2</b>	0.50	ug/L	20.0		101	75-125			
o-Xylene	<b>21.8</b>	0.50	ug/L	20.0		109	75-125			
m,p-Xylenes	<b>44.1</b>	1.0	ug/L	40.0		110	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	48.1		ug/L	50.0		96.1	70-140			
<i>Surrogate: Dibromofluoromethane</i>	43.8		ug/L	50.0		87.6	70-140			
<i>Surrogate: Toluene-d8</i>	48.5		ug/L	50.0		97.0	70-140			
<b>LCS Dup (B1G0815-BSD1)</b>				Prepared & Analyzed: 07/08/21						
Benzene	<b>18.4</b>	0.50	ug/L	20.0		91.8	75-125	6.35	30	
Ethylbenzene	<b>22.2</b>	0.50	ug/L	20.0		111	75-125	0.633	30	
Methyl-tert-Butyl Ether (MTBE)	<b>39.6</b>	2.0	ug/L	40.0		99.1	75-125	9.05	30	
Toluene	<b>21.0</b>	0.50	ug/L	20.0		105	75-125	4.07	30	
o-Xylene	<b>21.4</b>	0.50	ug/L	20.0		107	75-125	1.76	30	
m,p-Xylenes	<b>44.8</b>	1.0	ug/L	40.0		112	75-125	1.53	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	47.8		ug/L	50.0		95.7	70-140			
<i>Surrogate: Dibromofluoromethane</i>	45.5		ug/L	50.0		91.0	70-140			
<i>Surrogate: Toluene-d8</i>	47.6		ug/L	50.0		95.2	70-140			
<b>Duplicate (B1G0815-DUP1)</b>				<b>Source: 1G07025-01</b> Prepared & Analyzed: 07/08/21						

**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:** A5334104  
**Date Received:** 07/07/21  
**Date Reported:** 07/13/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B1G0815 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B1G0815-DUP1) Continued Source: 1G07025-01 Prepared &amp; Analyzed: 07/08/21</b>										
Benzene	3.13	0.50	ug/L		2.97			5.25	30	
Ethylbenzene	1.98	0.50	ug/L		1.86			6.25	30	
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L						30	
Toluene	2.09	0.50	ug/L		1.97			5.91	30	
o-Xylene	1.71	0.50	ug/L		1.60			6.65	30	
m,p-Xylenes	4.85	1.0	ug/L		4.68			3.57	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>45.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>90.9</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>50.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>100</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>96.8</i>	<i>70-140</i>			
<b>Gasoline Range Organics in Vapor by GC/FID - Quality Control</b>										
<i>Batch B1G0819 - *** DEFAULT PREP ***</i>										
<b>Blank (B1G0819-BLK1) Prepared &amp; Analyzed: 07/08/21</b>										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>57.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>114</i>	<i>70-130</i>			
<b>LCS (B1G0819-BS1) Prepared &amp; Analyzed: 07/08/21</b>										
Gasoline Range Organics (GRO)	491	20	ug/L	500		98.3	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>57.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>116</i>	<i>70-130</i>			
<b>LCS Dup (B1G0819-BSD1) Prepared &amp; Analyzed: 07/08/21</b>										
Gasoline Range Organics (GRO)	576	20	ug/L	500		115	75-125	15.9	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>64.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>129</i>	<i>70-130</i>			
<b>Duplicate (B1G0819-DUP1) Source: 1G07024-01 Prepared &amp; Analyzed: 07/08/21</b>										
Gasoline Range Organics (GRO)	86.2	20	ug/L		89.8			4.06	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>56.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>113</i>	<i>70-130</i>			
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B1G0819 - *** DEFAULT PREP ***</i>										
<b>Blank (B1G0819-BLK1) Prepared &amp; Analyzed: 07/08/21</b>										
Total VOCs as Hexane	<4.9	4.9	ppmv							
<b>Duplicate (B1G0819-DUP1) Source: 1G07024-01 Prepared &amp; Analyzed: 07/08/21</b>										

**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:** A5334104  
**Date Received:** 07/07/21  
**Date Reported:** 07/13/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B1G0819 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B1G0819-DUP1) Continued Source: 1G07024-01 Prepared &amp; Analyzed: 07/08/21</b>										
Total VOCs as Hexane	15.7	4.9	ppmv		16.3			3.56	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:** A5334104  
**Date Received:** 07/07/21  
**Date Reported:** 07/13/21

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### Special Notes

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

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**Viorel Vasile**  
Operations Manager





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

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July 13, 2021

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013  
A5334105 / 1G07024**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/07/21 16:16 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile  
Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334105  
**Date Received:** 07/07/21  
**Date Reported:** 07/13/21

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

VES Carbon-Influent	1G07024-01	Vapor	5	07/07/21 13:40	07/07/21 16:16
VES Carbon-Effluent	1G07024-02	Vapor	5	07/07/21 13:37	07/07/21 16:16

**VOCs Gasoline Range Organics Vapor**

VES Carbon-Influent	1G07024-01	Vapor	5	07/07/21 13:40	07/07/21 16:16
VES Carbon-Effluent	1G07024-02	Vapor	5	07/07/21 13:37	07/07/21 16:16

**VOCs in Vapor as Hexane**

VES Carbon-Influent	1G07024-01	Vapor	5	07/07/21 13:40	07/07/21 16:16
VES Carbon-Effluent	1G07024-02	Vapor	5	07/07/21 13:37	07/07/21 16:16

**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:** A5334105  
**Date Received:** 07/07/21  
**Date Reported:** 07/13/21  
**Sampled:** 07/07/21  
**Prepared:** 07/08/21  
**Analyzed:** 07/08/21

**VES Carbon-Influent**  
**1G07024-01 (Vapor)**

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	95.7 %	70-140
Dibromofluoromethane	102 %	70-140
Toluene-d8	94.4 %	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:** A5334105  
**Date Received:** 07/07/21  
**Date Reported:** 07/13/21  
**Sampled:** 07/07/21  
**Prepared:** 07/08/21  
**Analyzed:** 07/08/21

**VES Carbon-Effluent**  
**1G07024-02 (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	92.3 %	70-140
Dibromofluoromethane	96.2 %	70-140
Toluene-d8	93.9 %	70-140

**Viorel Vasile**  
 Operations Manager





### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334105  
**Date Received:** 07/07/21  
**Date Reported:** 07/13/21  
**Sampled:** 07/07/21  
**Prepared:** 07/08/21  
**Analyzed:** 07/08/21

**VES Carbon-Influent**  
**1G07024-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	90	ug/L	20	22	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>			<b>%REC Limits</b>	
a,a,a-Trifluorotoluene		115 %			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:** A5334105  
**Date Received:** 07/07/21  
**Date Reported:** 07/13/21  
**Sampled:** 07/07/21  
**Prepared:** 07/08/21  
**Analyzed:** 07/08/21

**VES Carbon-Effluent**  
**1G07024-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
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  
**Method:** VOCs in Vapor as Hexane

**AA Project No:** A5334105  
**Date Received:** 07/07/21  
**Date Reported:** 07/13/21  
**Units:** ppmv

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<b>Date Sampled:</b>	07/07/21	07/07/21	
<b>Date Prepared:</b>	07/08/21	07/08/21	
<b>Date Analyzed:</b>	07/08/21	07/08/21	
<b>AA ID No:</b>	1G07024-01	1G07024-02	
<b>Client ID No:</b>	VES	VES	
	Carbon-Influent	Carbon-Effluent	
<b>Matrix:</b>	Vapor	Vapor	
<b>Dilution Factor:</b>	1	1	MRL

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**VOCs in Vapor as Hexane (EPA 8015M)**

Total VOCs as Hexane	<b>16</b>	<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:** A5334105  
**Date Received:** 07/07/21  
**Date Reported:** 07/13/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B1G0815 - *** DEFAULT PREP ***</i>										
<b>Blank (B1G0815-BLK1)</b>				Prepared & Analyzed: 07/08/21						
Benzene	<0.25	0.25	ug/L							
Ethylbenzene	<0.25	0.25	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L							
Toluene	<0.25	0.25	ug/L							
o-Xylene	<0.25	0.25	ug/L							
m,p-Xylenes	<0.50	0.50	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	46.6		ug/L	50.0		93.3	70-140			
<i>Surrogate: Dibromofluoromethane</i>	48.3		ug/L	50.0		96.7	70-140			
<i>Surrogate: Toluene-d8</i>	47.4		ug/L	50.0		94.8	70-140			
<b>LCS (B1G0815-BS1)</b>				Prepared & Analyzed: 07/08/21						
Benzene	<b>17.2</b>	0.50	ug/L	20.0		86.1	75-125			
Ethylbenzene	<b>22.0</b>	0.50	ug/L	20.0		110	75-125			
Methyl-tert-Butyl Ether (MTBE)	<b>36.2</b>	2.0	ug/L	40.0		90.5	75-125			
Toluene	<b>20.2</b>	0.50	ug/L	20.0		101	75-125			
o-Xylene	<b>21.8</b>	0.50	ug/L	20.0		109	75-125			
m,p-Xylenes	<b>44.1</b>	1.0	ug/L	40.0		110	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	48.1		ug/L	50.0		96.1	70-140			
<i>Surrogate: Dibromofluoromethane</i>	43.8		ug/L	50.0		87.6	70-140			
<i>Surrogate: Toluene-d8</i>	48.5		ug/L	50.0		97.0	70-140			
<b>LCS Dup (B1G0815-BSD1)</b>				Prepared & Analyzed: 07/08/21						
Benzene	<b>18.4</b>	0.50	ug/L	20.0		91.8	75-125	6.35	30	
Ethylbenzene	<b>22.2</b>	0.50	ug/L	20.0		111	75-125	0.633	30	
Methyl-tert-Butyl Ether (MTBE)	<b>39.6</b>	2.0	ug/L	40.0		99.1	75-125	9.05	30	
Toluene	<b>21.0</b>	0.50	ug/L	20.0		105	75-125	4.07	30	
o-Xylene	<b>21.4</b>	0.50	ug/L	20.0		107	75-125	1.76	30	
m,p-Xylenes	<b>44.8</b>	1.0	ug/L	40.0		112	75-125	1.53	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	47.8		ug/L	50.0		95.7	70-140			
<i>Surrogate: Dibromofluoromethane</i>	45.5		ug/L	50.0		91.0	70-140			
<i>Surrogate: Toluene-d8</i>	47.6		ug/L	50.0		95.2	70-140			
<b>Duplicate (B1G0815-DUP1)</b>				Source: 1G07025-01 Prepared & Analyzed: 07/08/21						

**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:** A5334105  
**Date Received:** 07/07/21  
**Date Reported:** 07/13/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B1G0815 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B1G0815-DUP1) Continued Source: 1G07025-01 Prepared &amp; Analyzed: 07/08/21</b>										
Benzene	3.13	0.50	ug/L		2.97			5.25	30	
Ethylbenzene	1.98	0.50	ug/L		1.86			6.25	30	
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L						30	
Toluene	2.09	0.50	ug/L		1.97			5.91	30	
o-Xylene	1.71	0.50	ug/L		1.60			6.65	30	
m,p-Xylenes	4.85	1.0	ug/L		4.68			3.57	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	45.4		ug/L	50.0		90.9	70-140			
<i>Surrogate: Dibromofluoromethane</i>	50.1		ug/L	50.0		100	70-140			
<i>Surrogate: Toluene-d8</i>	48.4		ug/L	50.0		96.8	70-140			
<b>Gasoline Range Organics in Vapor by GC/FID - Quality Control</b>										
<i>Batch B1G0819 - *** DEFAULT PREP ***</i>										
<b>Blank (B1G0819-BLK1) Prepared &amp; Analyzed: 07/08/21</b>										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	57.1		ug/L	50.0		114	70-130			
<b>LCS (B1G0819-BS1) Prepared &amp; Analyzed: 07/08/21</b>										
Gasoline Range Organics (GRO)	491	20	ug/L	500		98.3	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	57.8		ug/L	50.0		116	70-130			
<b>LCS Dup (B1G0819-BSD1) Prepared &amp; Analyzed: 07/08/21</b>										
Gasoline Range Organics (GRO)	576	20	ug/L	500		115	75-125	15.9	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	64.7		ug/L	50.0		129	70-130			
<b>Duplicate (B1G0819-DUP1) Source: 1G07024-01 Prepared &amp; Analyzed: 07/08/21</b>										
Gasoline Range Organics (GRO)	86.2	20	ug/L		89.8			4.06	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	56.4		ug/L	50.0		113	70-130			
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B1G0819 - *** DEFAULT PREP ***</i>										
<b>Blank (B1G0819-BLK1) Prepared &amp; Analyzed: 07/08/21</b>										
Total VOCs as Hexane	<4.9	4.9	ppmv							
<b>Duplicate (B1G0819-DUP1) Source: 1G07024-01 Prepared &amp; Analyzed: 07/08/21</b>										

**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:** A5334105  
**Date Received:** 07/07/21  
**Date Reported:** 07/13/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B1G0819 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B1G0819-DUP1) Continued Source: 1G07024-01 Prepared &amp; Analyzed: 07/08/21</b>										
Total VOCs as Hexane	15.7	4.9	ppmv		16.3			3.56	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:** A5334105  
**Date Received:** 07/07/21  
**Date Reported:** 07/13/21

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### Special Notes

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**Viorel Vasile**  
Operations Manager







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

---

August 24, 2021

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013  
A5334166 / 1H09016**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/09/21 18:23 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5334166  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21

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

VES After GAC-1	1H09016-01	Vapor	5	08/09/21 09:36	08/09/21 18:23
VES After GAC-2	1H09016-02	Vapor	5	08/09/21 09:35	08/09/21 18:23

**VOCs Gasoline Range Organics Vapor**

VES After GAC-1	1H09016-01	Vapor	5	08/09/21 09:36	08/09/21 18:23
VES After GAC-2	1H09016-02	Vapor	5	08/09/21 09:35	08/09/21 18:23

**VOCs in Vapor as Hexane**

VES After GAC-1	1H09016-01	Vapor	5	08/09/21 09:36	08/09/21 18:23
VES After GAC-2	1H09016-02	Vapor	5	08/09/21 09:35	08/09/21 18:23

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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  
**Matrix:** Vapor  
**Dilution:** 1  
**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M

**AA Project No:** A5334166  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21  
**Sampled:** 08/09/21  
**Prepared:** 08/10/21  
**Analyzed:** 08/10/21

**VES After GAC-1**  
**1H09016-01 (Vapor)**

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	123 %	70-140
Dibromofluoromethane	132 %	70-140
Toluene-d8	104 %	70-140

**Viorel Vasile**  
 Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334166  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21  
**Sampled:** 08/09/21  
**Prepared:** 08/10/21  
**Analyzed:** 08/10/21

**VES After GAC-2**  
**1H09016-02 (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	130 %	70-140
Dibromofluoromethane	110 %	70-140
Toluene-d8	115 %	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:** A5334166  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21  
**Sampled:** 08/09/21  
**Prepared:** 08/10/21  
**Analyzed:** 08/10/21

**VES After GAC-1**  
**1H09016-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	44	ug/L	20	11	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>				<b>%REC Limits</b>
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:** A5334166  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21  
**Sampled:** 08/09/21  
**Prepared:** 08/10/21  
**Analyzed:** 08/10/21

**VES After GAC-2**

**1H09016-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>				<b>%REC Limits</b>
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  
**Method:** VOCs in Vapor as Hexane

**AA Project No:** A5334166  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21  
**Units:** ppmv

<b>Date Sampled:</b>	08/09/21	08/09/21	
<b>Date Prepared:</b>	08/10/21	08/10/21	
<b>Date Analyzed:</b>	08/10/21	08/10/21	
<b>AA ID No:</b>	1H09016-01	1H09016-02	
<b>Client ID No:</b>	VES After GAC-1	VES After GAC-2	
<b>Matrix:</b>	Vapor	Vapor	
<b>Dilution Factor:</b>	1	1	MRL

### VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	<b>8.3</b>	<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:** A5334166  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B1H1020 - *** DEFAULT PREP ***</i>										
<b>Blank (B1H1020-BLK1)</b>				Prepared & Analyzed: 08/10/21						
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>	62.4		ug/L	50.0		125	70-140			
<i>Surrogate: Dibromofluoromethane</i>	65.0		ug/L	50.0		130	70-140			
<i>Surrogate: Toluene-d8</i>	52.7		ug/L	50.0		105	70-140			
<b>LCS (B1H1020-BS1)</b>				Prepared & Analyzed: 08/10/21						
Benzene	<b>20.9</b>	0.50	ug/L	20.0		104	75-125			
Ethylbenzene	<b>20.2</b>	0.50	ug/L	20.0		101	75-125			
Methyl-tert-Butyl Ether (MTBE)	<b>46.6</b>	2.0	ug/L	40.0		116	75-125			
Toluene	<b>18.8</b>	0.50	ug/L	20.0		93.8	75-125			
o-Xylene	<b>19.1</b>	0.50	ug/L	20.0		95.6	75-125			
m,p-Xylenes	<b>38.2</b>	1.0	ug/L	40.0		95.4	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	62.2		ug/L	50.0		124	70-140			
<i>Surrogate: Dibromofluoromethane</i>	58.0		ug/L	50.0		116	70-140			
<i>Surrogate: Toluene-d8</i>	53.6		ug/L	50.0		107	70-140			
<b>LCS Dup (B1H1020-BSD1)</b>				Prepared & Analyzed: 08/10/21						
Benzene	<b>21.6</b>	0.50	ug/L	20.0		108	75-125	3.39	30	
Ethylbenzene	<b>20.4</b>	0.50	ug/L	20.0		102	75-125	1.38	30	
Methyl-tert-Butyl Ether (MTBE)	<b>48.0</b>	2.0	ug/L	40.0		120	75-125	2.90	30	
Toluene	<b>19.4</b>	0.50	ug/L	20.0		97.0	75-125	3.46	30	
o-Xylene	<b>19.6</b>	0.50	ug/L	20.0		97.8	75-125	2.28	30	
m,p-Xylenes	<b>38.6</b>	1.0	ug/L	40.0		96.5	75-125	1.12	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	57.8		ug/L	50.0		116	70-140			
<i>Surrogate: Dibromofluoromethane</i>	57.9		ug/L	50.0		116	70-140			
<i>Surrogate: Toluene-d8</i>	53.6		ug/L	50.0		107	70-140			
<b>Duplicate (B1H1020-DUP1)</b>				Source: 1H09016-01 Prepared & Analyzed: 08/10/21						

**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:** A5334166  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B1H1020 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B1H1020-DUP1) Continued Source: 1H09016-01 Prepared &amp; Analyzed: 08/10/21</b>										
Benzene	<0.25	0.25	ug/L		<0.50				30	
Ethylbenzene	<0.25	0.25	ug/L		<0.50				30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L		<2.0				30	
Toluene	<0.25	0.25	ug/L		<0.50				30	
o-Xylene	<0.25	0.25	ug/L		<0.50				30	
m,p-Xylenes	<0.50	0.50	ug/L		<1.0				30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>60.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>122</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>66.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>134</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>52.6</i>		<i>ug/L</i>	<i>50.0</i>		<i>105</i>	<i>70-140</i>			
<b>Gasoline Range Organics in Vapor by GC/FID - Quality Control</b>										
<i>Batch B1H1021 - *** DEFAULT PREP ***</i>										
<b>Blank (B1H1021-BLK1) Prepared &amp; Analyzed: 08/10/21</b>										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>50.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>100</i>	<i>70-130</i>			
<b>LCS (B1H1021-BS1) Prepared &amp; Analyzed: 08/10/21</b>										
Gasoline Range Organics (GRO)	<b>482</b>	20	ug/L	500		96.5	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>58.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>117</i>	<i>70-130</i>			
<b>LCS Dup (B1H1021-BSD1) Prepared &amp; Analyzed: 08/10/21</b>										
Gasoline Range Organics (GRO)	<b>448</b>	20	ug/L	500		89.5	75-125	7.50	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>58.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>118</i>	<i>70-130</i>			
<b>Duplicate (B1H1021-DUP1) Source: 1H10005-01 Prepared &amp; Analyzed: 08/10/21</b>										
Gasoline Range Organics (GRO)	<b>2190</b>	20	ug/L		2120			3.13	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>59.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>118</i>	<i>70-130</i>			
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B1H1021 - *** DEFAULT PREP ***</i>										
<b>Blank (B1H1021-BLK1) Prepared &amp; Analyzed: 08/10/21</b>										
Total VOCs as Hexane	<4.9	4.9	ppmv							
<b>Duplicate (B1H1021-DUP1) Source: 1H10005-01 Prepared &amp; Analyzed: 08/10/21</b>										

**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:** A5334166  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B1H1021 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B1H1021-DUP1) Continued Source: 1H10005-01 Prepared &amp; Analyzed: 08/10/21</b>										
Total VOCs as Hexane	425	4.9	ppmv		412			3.14	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:** A5334166  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21

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### Special Notes

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

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**Viorel Vasile**  
Operations Manager





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

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August 24, 2021

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013  
A5334167 / 1H09017**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/09/21 18:23 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile  
Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334167  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21

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

VES Carbon-Influent	1H09017-01	Vapor	5	08/09/21 09:37	08/09/21 18:23
VES Carbon-Effluent	1H09017-02	Vapor	5	08/09/21 09:33	08/09/21 18:23

**VOCs Gasoline Range Organics Vapor**

VES Carbon-Influent	1H09017-01	Vapor	5	08/09/21 09:37	08/09/21 18:23
VES Carbon-Effluent	1H09017-02	Vapor	5	08/09/21 09:33	08/09/21 18:23

**VOCs in Vapor as Hexane**

VES Carbon-Influent	1H09017-01	Vapor	5	08/09/21 09:37	08/09/21 18:23
VES Carbon-Effluent	1H09017-02	Vapor	5	08/09/21 09:33	08/09/21 18:23

**Viorel Vasile**  
Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334167  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21  
**Sampled:** 08/09/21  
**Prepared:** 08/10/21  
**Analyzed:** 08/10/21

**VES Carbon-Influent**  
**1H09017-01 (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	124 %	70-140
Dibromofluoromethane	125 %	70-140
Toluene-d8	107 %	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:** A5334167  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21  
**Sampled:** 08/09/21  
**Prepared:** 08/10/21  
**Analyzed:** 08/10/21

**VES Carbon-Effluent**  
**1H09017-02 (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	122 %	70-140
Dibromofluoromethane	71.0 %	70-140
Toluene-d8	104 %	70-140

**Viorel Vasile**  
 Operations Manager





### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334167  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21  
**Sampled:** 08/09/21  
**Prepared:** 08/10/21  
**Analyzed:** 08/10/21

**VES Carbon-Influent**  
**1H09017-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	69	ug/L	20	17	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>			<b>%REC Limits</b>	
a,a,a-Trifluorotoluene		98.1 %			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:** A5334167  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21  
**Sampled:** 08/09/21  
**Prepared:** 08/10/21  
**Analyzed:** 08/10/21

**VES Carbon-Effluent**  
**1H09017-02 (Vapor)**

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

**Viorel Vasile**  
 Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334167  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21  
**Units:** ppmv

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<b>Date Sampled:</b>	08/09/21	08/09/21	
<b>Date Prepared:</b>	08/10/21	08/10/21	
<b>Date Analyzed:</b>	08/10/21	08/10/21	
<b>AA ID No:</b>	1H09017-01	1H09017-02	
<b>Client ID No:</b>	VES	VES	
	Carbon-Influent	Carbon-Effluent	
<b>Matrix:</b>	Vapor	Vapor	
<b>Dilution Factor:</b>	1	1	MRL

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**VOCs in Vapor as Hexane (EPA 8015M)**

Total VOCs as Hexane	<b>13</b>	<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:** A5334167  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B1H1020 - *** DEFAULT PREP ***</i>										
<b>Blank (B1H1020-BLK1)</b>				Prepared & Analyzed: 08/10/21						
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>	62.4		ug/L	50.0		125	70-140			
<i>Surrogate: Dibromofluoromethane</i>	65.0		ug/L	50.0		130	70-140			
<i>Surrogate: Toluene-d8</i>	52.7		ug/L	50.0		105	70-140			
<b>LCS (B1H1020-BS1)</b>				Prepared & Analyzed: 08/10/21						
Benzene	<b>20.9</b>	0.50	ug/L	20.0		104	75-125			
Ethylbenzene	<b>20.2</b>	0.50	ug/L	20.0		101	75-125			
Methyl-tert-Butyl Ether (MTBE)	<b>46.6</b>	2.0	ug/L	40.0		116	75-125			
Toluene	<b>18.8</b>	0.50	ug/L	20.0		93.8	75-125			
o-Xylene	<b>19.1</b>	0.50	ug/L	20.0		95.6	75-125			
m,p-Xylenes	<b>38.2</b>	1.0	ug/L	40.0		95.4	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	62.2		ug/L	50.0		124	70-140			
<i>Surrogate: Dibromofluoromethane</i>	58.0		ug/L	50.0		116	70-140			
<i>Surrogate: Toluene-d8</i>	53.6		ug/L	50.0		107	70-140			
<b>LCS Dup (B1H1020-BSD1)</b>				Prepared & Analyzed: 08/10/21						
Benzene	<b>21.6</b>	0.50	ug/L	20.0		108	75-125	3.39	30	
Ethylbenzene	<b>20.4</b>	0.50	ug/L	20.0		102	75-125	1.38	30	
Methyl-tert-Butyl Ether (MTBE)	<b>48.0</b>	2.0	ug/L	40.0		120	75-125	2.90	30	
Toluene	<b>19.4</b>	0.50	ug/L	20.0		97.0	75-125	3.46	30	
o-Xylene	<b>19.6</b>	0.50	ug/L	20.0		97.8	75-125	2.28	30	
m,p-Xylenes	<b>38.6</b>	1.0	ug/L	40.0		96.5	75-125	1.12	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	57.8		ug/L	50.0		116	70-140			
<i>Surrogate: Dibromofluoromethane</i>	57.9		ug/L	50.0		116	70-140			
<i>Surrogate: Toluene-d8</i>	53.6		ug/L	50.0		107	70-140			
<b>Duplicate (B1H1020-DUP1)</b>				<b>Source: 1H09016-01</b> Prepared & Analyzed: 08/10/21						

**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: A5334167  
Date Received: 08/09/21  
Date Reported: 08/24/21

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 B1H1020 - \*\*\* DEFAULT PREP \*\*\*

Duplicate (B1H1020-DUP1) Continued Source: 1H09016-01 Prepared & Analyzed: 08/10/21

Benzene	<0.25	0.25	ug/L						30	
Ethylbenzene	<0.25	0.25	ug/L						30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	<0.25	0.25	ug/L						30	
o-Xylene	<0.25	0.25	ug/L						30	
m,p-Xylenes	<0.50	0.50	ug/L						30	
Surrogate: 4-Bromofluorobenzene	60.8		ug/L	50.0		122	70-140			
Surrogate: Dibromofluoromethane	66.9		ug/L	50.0		134	70-140			
Surrogate: Toluene-d8	52.6		ug/L	50.0		105	70-140			

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

Batch B1H1021 - \*\*\* DEFAULT PREP \*\*\*

Blank (B1H1021-BLK1) Prepared & Analyzed: 08/10/21

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	50.2		ug/L	50.0		100	70-130			

LCS (B1H1021-BS1) Prepared & Analyzed: 08/10/21

Gasoline Range Organics (GRO)	482	20	ug/L	500		96.5	75-125			
Surrogate: a,a,a-Trifluorotoluene	58.4		ug/L	50.0		117	70-130			

LCS Dup (B1H1021-BSD1) Prepared & Analyzed: 08/10/21

Gasoline Range Organics (GRO)	448	20	ug/L	500		89.5	75-125	7.50	30	
Surrogate: a,a,a-Trifluorotoluene	58.9		ug/L	50.0		118	70-130			

Duplicate (B1H1021-DUP1) Source: 1H10005-01 Prepared & Analyzed: 08/10/21

Gasoline Range Organics (GRO)	2190	20	ug/L		2120			3.13	30	
Surrogate: a,a,a-Trifluorotoluene	59.0		ug/L	50.0		118	70-130			

#### VOCs in Vapor as Hexane - Quality Control

Batch B1H1021 - \*\*\* DEFAULT PREP \*\*\*

Blank (B1H1021-BLK1) Prepared & Analyzed: 08/10/21

Total VOCs as Hexane	<4.9	4.9	ppmv							
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Duplicate (B1H1021-DUP1) Source: 1H10005-01 Prepared & Analyzed: 08/10/21

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:** A5334167  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B1H1021 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B1H1021-DUP1) Continued Source: 1H10005-01 Prepared &amp; Analyzed: 08/10/21</b>										
Total VOCs as Hexane	425	4.9	ppmv		412			3.14	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:** A5334167  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21

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### Special Notes

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

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**Viorel Vasile**  
Operations Manager



**AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD**

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

23127

Client: The Source Group, Inc. Project Name / No.: DFSP - Norwalk / 091-NOR-001 Task 2-10 Sampler's Name: Glenn Androska

Project Manager: Neil Irish Site Address: 15306 Norwalk Blvd Sampler's Signature: *Glenn Androska*

Phone: 562-597-1055 City: Norwalk P.O. No.: \_\_\_\_\_

Fax: 569-597-1070 State & Zip: CA 90650 Quote No.: \_\_\_\_\_

**TAT Turnaround Codes \*\***

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

Client I.D.	Sample Matrix	Time	Date	No. of Cont.	Please enter the TAT Turnaround Codes ** below				Special Instructions
					Total VOCs Gas 8015	Total VOCs Hexane 8016	BTEX/MTBE 8260B		
VES Carbon-Influent	Air	0937	8-9-21	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		VOC's reported as GRO (detection limit = 4.9 ppmv) and VOCs as Hexane (detection limit = 4.9 ppmv)
VES Carbon-Effluent	Air	0933	4	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Benzene (detection limit = 0.15 ppmv)
				Relinquished by <i>Glenn Androska</i>		Date	Time	Received by	
				Relinquished by _____		8-9-21	18:23	Received by <i>[Signature]</i>	
				Relinquished by _____				Received by _____	

**PRIORITY**

EXPIRES 05/31/2010

A5334167/1H09017

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





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

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September 29, 2021

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013  
A5334243 / 1I20019**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 09/20/21 15:48 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5334243  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21

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

VES After GAC-1	1I20019-01	Vapor	5	09/20/21 10:09	09/20/21 15:48
VES After GAC-2	1I20019-02	Vapor	5	09/20/21 10:08	09/20/21 15:48

**VOCs Gasoline Range Organics Vapor**

VES After GAC-1	1I20019-01	Vapor	5	09/20/21 10:09	09/20/21 15:48
VES After GAC-2	1I20019-02	Vapor	5	09/20/21 10:08	09/20/21 15:48

**VOCs in Vapor as Hexane**

VES After GAC-1	1I20019-01	Vapor	5	09/20/21 10:09	09/20/21 15:48
VES After GAC-2	1I20019-02	Vapor	5	09/20/21 10:08	09/20/21 15:48

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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  
**Matrix:** Vapor  
**Dilution:** 0.5  
**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M

**AA Project No:** A5334243  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21  
**Sampled:** 09/20/21  
**Prepared:** 09/21/21  
**Analyzed:** 09/22/21

**VES After GAC-1**  
**1120019-01 (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

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	81.3 %	70-140
Dibromofluoromethane	148 % S-GC	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:** A5334243  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21  
**Sampled:** 09/20/21  
**Prepared:** 09/21/21  
**Analyzed:** 09/22/21

**VES After GAC-2**  
**1120019-02 (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	83.1 %	70-140
Dibromofluoromethane	138 %	70-140
Toluene-d8	114 %	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:** A5334243  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21  
**Sampled:** 09/20/21  
**Prepared:** 09/21/21  
**Analyzed:** 09/21/21

**VES After GAC-1**  
**1120019-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>			<b>%REC Limits</b>	
a,a,a-Trifluorotoluene		93.2 %			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:** A5334243  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21  
**Sampled:** 09/20/21  
**Prepared:** 09/21/21  
**Analyzed:** 09/21/21

**VES After GAC-2**  
**1120019-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
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:** A5334243  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21  
**Units:** ppmv

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<b>Date Sampled:</b>	09/20/21	09/20/21	
<b>Date Prepared:</b>	09/21/21	09/21/21	
<b>Date Analyzed:</b>	09/21/21	09/21/21	
<b>AA ID No:</b>	1120019-01	1120019-02	
<b>Client ID No:</b>	VES After GAC-1	VES After GAC-2	
<b>Matrix:</b>	Vapor	Vapor	
<b>Dilution Factor:</b>	1	1	MRL

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**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:** A5334243  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B1I2121 - *** DEFAULT PREP ***</i>										
<b>Blank (B1I2121-BLK1)</b> <span style="float: right;">Prepared: 09/21/21 Analyzed: 09/22/21</span>										
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>40.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>81.5</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>68.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>136</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>57.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>114</i>	<i>70-140</i>			
<b>LCS (B1I2121-BS1)</b> <span style="float: right;">Prepared: 09/21/21 Analyzed: 09/22/21</span>										
Benzene	<b>19.6</b>	0.50	ug/L	20.0		98.1	75-125			
Ethylbenzene	<b>22.4</b>	0.50	ug/L	20.0		112	75-125			
Methyl-tert-Butyl Ether (MTBE)	<b>31.0</b>	2.0	ug/L	40.0		77.5	75-125			
Toluene	<b>20.5</b>	0.50	ug/L	20.0		102	75-125			
o-Xylene	<b>23.4</b>	0.50	ug/L	20.0		117	75-125			
m,p-Xylenes	<b>47.3</b>	1.0	ug/L	40.0		118	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>40.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>79.9</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>59.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>118</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>58.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>116</i>	<i>70-140</i>			
<b>LCS Dup (B1I2121-BSD1)</b> <span style="float: right;">Prepared: 09/21/21 Analyzed: 09/22/21</span>										
Benzene	<b>20.2</b>	0.50	ug/L	20.0		101	75-125	2.86	30	
Ethylbenzene	<b>22.4</b>	0.50	ug/L	20.0		112	75-125	0.223	30	
Methyl-tert-Butyl Ether (MTBE)	<b>35.3</b>	2.0	ug/L	40.0		88.3	75-125	13.0	30	
Toluene	<b>20.2</b>	0.50	ug/L	20.0		101	75-125	1.47	30	
o-Xylene	<b>23.6</b>	0.50	ug/L	20.0		118	75-125	0.937	30	
m,p-Xylenes	<b>46.6</b>	1.0	ug/L	40.0		116	75-125	1.49	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>39.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>78.0</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>61.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>122</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>56.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>114</i>	<i>70-140</i>			
<b>Duplicate (B1I2121-DUP1)</b> <span style="float: right;">Source: 1I20019-01 Prepared: 09/21/21 Analyzed: 09/22/21</span>										

**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:** A5334243  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21

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 B112121 - \*\*\* DEFAULT PREP \*\*\*

**Duplicate (B112121-DUP1) Continued**      **Source: 1120019-01**      Prepared: 09/21/21      Analyzed: 09/22/21

Benzene	<0.25	0.25	ug/L		<0.25				30	
Ethylbenzene	<0.25	0.25	ug/L		<0.25				30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L		0.360				30	
Toluene	<0.25	0.25	ug/L		<0.25				30	
o-Xylene	<0.25	0.25	ug/L		<0.25				30	
m,p-Xylenes	<0.50	0.50	ug/L		<0.50				30	
<i>Surrogate: 4-Bromofluorobenzene</i>	41.8		ug/L	50.0		83.6	70-140			
<i>Surrogate: Dibromofluoromethane</i>	69.9		ug/L	50.0		140	70-140			
<i>Surrogate: Toluene-d8</i>	56.6		ug/L	50.0		113	70-140			

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

Batch B112122 - \*\*\* DEFAULT PREP \*\*\*

**Blank (B112122-BLK1)**      Prepared & Analyzed: 09/21/21

Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	44.0		ug/L	50.0		88.0	70-130			

**LCS (B112122-BS1)**      Prepared & Analyzed: 09/21/21

Gasoline Range Organics (GRO)	441	20	ug/L	500		88.2	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	50.9		ug/L	50.0		102	70-130			

**LCS Dup (B112122-BSD1)**      Prepared & Analyzed: 09/21/21

Gasoline Range Organics (GRO)	552	20	ug/L	500		110	75-125	22.4	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	58.1		ug/L	50.0		116	70-130			

**Duplicate (B112122-DUP1)**      **Source: 1120021-01**      Prepared & Analyzed: 09/21/21

Gasoline Range Organics (GRO)	1310	100	ug/L		1310			0.192	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	53.5		ug/L	50.0		107	70-130			

**VOCs in Vapor as Hexane - Quality Control**

Batch B112122 - \*\*\* DEFAULT PREP \*\*\*

**Blank (B112122-BLK1)**      Prepared & Analyzed: 09/21/21

Total VOCs as Hexane	<4.9	4.9	ppmv							
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**Duplicate (B112122-DUP1)**      **Source: 1120021-01**      Prepared & Analyzed: 09/21/21

**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:** A5334243  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B112122 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B112122-DUP1) Continued Source: 1120021-01 Prepared &amp; Analyzed: 09/21/21</b>										
Total VOCs as Hexane	238	24	ppmv		237			0.430	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:** A5334243  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21

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### Special Notes

[1] = **S-GC** : Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

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

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**Viorel Vasile**  
Operations Manager





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

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September 29, 2021

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013  
A5334244 / 1120020**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 09/20/21 15:48 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile  
Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334244  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21

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

VES Carbon-Influent	1I20020-01	Vapor	5	09/20/21 10:10	09/20/21 15:48
VES Carbon-Effluent	1I20020-02	Vapor	5	09/20/21 10:06	09/20/21 15:48

**VOCs Gasoline Range Organics Vapor**

VES Carbon-Influent	1I20020-01	Vapor	5	09/20/21 10:10	09/20/21 15:48
VES Carbon-Effluent	1I20020-02	Vapor	5	09/20/21 10:06	09/20/21 15:48

**VOCs in Vapor as Hexane**

VES Carbon-Influent	1I20020-01	Vapor	5	09/20/21 10:10	09/20/21 15:48
VES Carbon-Effluent	1I20020-02	Vapor	5	09/20/21 10:06	09/20/21 15:48

**Viorel Vasile**  
Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334244  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21  
**Sampled:** 09/20/21  
**Prepared:** 09/22/21  
**Analyzed:** 09/22/21

**VES Carbon-Influent**  
**1120020-01 (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	84.5 %	70-140
Dibromofluoromethane	148 % S-GC	70-140
Toluene-d8	115 %	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:** A5334244  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21  
**Sampled:** 09/20/21  
**Prepared:** 09/22/21  
**Analyzed:** 09/22/21

**VES Carbon-Effluent**  
**1120020-02 (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	86.0 %	70-140
Dibromofluoromethane	144 % S-GC	70-140
Toluene-d8	115 %	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:** A5334244  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21  
**Sampled:** 09/20/21  
**Prepared:** 09/21/21  
**Analyzed:** 09/21/21

### VES Carbon-Influent

#### 1120020-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	64	ug/L	20	16	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>				<b><u>%REC Limits</u></b>
a,a,a-Trifluorotoluene		88.6 %				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:** A5334244  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21  
**Sampled:** 09/20/21  
**Prepared:** 09/21/21  
**Analyzed:** 09/21/21

**VES Carbon-Effluent**  
**1120020-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>			<b>%REC Limits</b>	
a,a,a-Trifluorotoluene		93.0 %			70-130	

**Viorel Vasile**  
 Operations Manager



## LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334244  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21  
**Units:** ppmv

<b>Date Sampled:</b>	09/20/21	09/20/21	
<b>Date Prepared:</b>	09/21/21	09/21/21	
<b>Date Analyzed:</b>	09/21/21	09/21/21	
<b>AA ID No:</b>	1120020-01	1120020-02	
<b>Client ID No:</b>	VES	VES	
	Carbon-Influent	Carbon-Effluent	
<b>Matrix:</b>	Vapor	Vapor	
<b>Dilution Factor:</b>	1	1	MRL

### VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	<b>12</b>	<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:** A5334244  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B1I2212 - *** DEFAULT PREP ***</i>										
<b>Blank (B1I2212-BLK1)</b> Prepared & Analyzed: 09/22/21										
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>	40.9		ug/L	50.0		81.8	70-140			
<i>Surrogate: Dibromofluoromethane</i>	69.3		ug/L	50.0		139	70-140			
<i>Surrogate: Toluene-d8</i>	56.8		ug/L	50.0		114	70-140			
<b>LCS (B1I2212-BS1)</b> Prepared & Analyzed: 09/22/21										
Benzene	<b>20.4</b>	0.50	ug/L	20.0		102	75-125			
Ethylbenzene	<b>21.6</b>	0.50	ug/L	20.0		108	75-125			
Methyl-tert-Butyl Ether (MTBE)	<b>34.7</b>	2.0	ug/L	40.0		86.7	75-125			
Toluene	<b>19.8</b>	0.50	ug/L	20.0		98.8	75-125			
o-Xylene	<b>22.5</b>	0.50	ug/L	20.0		113	75-125			
m,p-Xylenes	<b>45.4</b>	1.0	ug/L	40.0		113	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	39.6		ug/L	50.0		79.2	70-140			
<i>Surrogate: Dibromofluoromethane</i>	61.7		ug/L	50.0		123	70-140			
<i>Surrogate: Toluene-d8</i>	57.8		ug/L	50.0		116	70-140			
<b>LCS Dup (B1I2212-BSD1)</b> Prepared & Analyzed: 09/22/21										
Benzene	<b>22.1</b>	0.50	ug/L	20.0		111	75-125	8.29	30	
Ethylbenzene	<b>21.9</b>	0.50	ug/L	20.0		110	75-125	1.38	30	
Methyl-tert-Butyl Ether (MTBE)	<b>35.4</b>	2.0	ug/L	40.0		88.4	75-125	1.97	30	
Toluene	<b>19.9</b>	0.50	ug/L	20.0		99.6	75-125	0.706	30	
o-Xylene	<b>22.0</b>	0.50	ug/L	20.0		110	75-125	2.20	30	
m,p-Xylenes	<b>44.8</b>	1.0	ug/L	40.0		112	75-125	1.31	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	40.3		ug/L	50.0		80.7	70-140			
<i>Surrogate: Dibromofluoromethane</i>	62.6		ug/L	50.0		125	70-140			
<i>Surrogate: Toluene-d8</i>	58.2		ug/L	50.0		116	70-140			
<b>Duplicate (B1I2212-DUP1)</b> Source: 1120020-01 Prepared & Analyzed: 09/22/21										

**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:** A5334244  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21

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 B112212 - \*\*\* DEFAULT PREP \*\*\*

**Duplicate (B112212-DUP1) Continued**      **Source: 1120020-01**      Prepared & Analyzed: 09/22/21

Benzene	<0.25	0.25	ug/L		<0.25				30	
Ethylbenzene	<0.25	0.25	ug/L		<0.25				30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L		<1.0				30	
Toluene	<0.25	0.25	ug/L		<0.25				30	
o-Xylene	<0.25	0.25	ug/L		<0.25				30	
m,p-Xylenes	<0.50	0.50	ug/L		<0.50				30	
Surrogate: 4-Bromofluorobenzene	42.6		ug/L	50.0		85.2	70-140			
Surrogate: Dibromofluoromethane	75.0		ug/L	50.0		150	70-140			S-GC
Surrogate: Toluene-d8	57.6		ug/L	50.0		115	70-140			

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

Batch B112122 - \*\*\* DEFAULT PREP \*\*\*

**Blank (B112122-BLK1)**      Prepared & Analyzed: 09/21/21

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	44.0		ug/L	50.0		88.0	70-130			

**LCS (B112122-BS1)**      Prepared & Analyzed: 09/21/21

Gasoline Range Organics (GRO)	441	20	ug/L	500		88.2	75-125			
Surrogate: a,a,a-Trifluorotoluene	50.9		ug/L	50.0		102	70-130			

**LCS Dup (B112122-BSD1)**      Prepared & Analyzed: 09/21/21

Gasoline Range Organics (GRO)	552	20	ug/L	500		110	75-125	22.4	30	
Surrogate: a,a,a-Trifluorotoluene	58.1		ug/L	50.0		116	70-130			

**Duplicate (B112122-DUP1)**      **Source: 1120021-01**      Prepared & Analyzed: 09/21/21

Gasoline Range Organics (GRO)	1310	100	ug/L		1310			0.192	30	
Surrogate: a,a,a-Trifluorotoluene	53.5		ug/L	50.0		107	70-130			

**VOCs in Vapor as Hexane - Quality Control**

Batch B112122 - \*\*\* DEFAULT PREP \*\*\*

**Blank (B112122-BLK1)**      Prepared & Analyzed: 09/21/21

Total VOCs as Hexane	<4.9	4.9	ppmv							
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**Duplicate (B112122-DUP1)**      **Source: 1120021-01**      Prepared & Analyzed: 09/21/21

**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:** A5334244  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B112122 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B112122-DUP1) Continued Source: 1120021-01 Prepared &amp; Analyzed: 09/21/21</b>										
Total VOCs as Hexane	238	24	ppmv		237			0.430	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:** A5334244  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21

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### Special Notes

[1] = **S-GC** : Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

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

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**Viorel Vasile**  
Operations Manager



# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

23346

Page 1 of 1

**Client:** The Source Group, Inc. **Project Name / No.:** DFSP - Norwalk / 091-NOR-001 Task 2-10 **Sampler's Name:** Glenn Androska

**Project Manager:** Neil Irish **Site Address:** 15306 Norwalk Blvd **Sampler's Signature:** *Glenn Androska*

**Phone:** 562-597-1055 **City:** Norwalk **P.O. No.:**

**Fax:** 569-597-1070 **State & Zip:** CA 90650 **Quote No.:**

### TAT Turnaround Codes \*\*

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

### ANALYSIS REQUESTED (Test Name)

Client I.D.	Date	Time	Sample Matrix	No. of Cont	Please enter the TAT Turnaround Codes ** below			Special Instructions
					Total VOCs Gas 8015	Total VOCs Hexane 8015	BTEX/MTBE 8260B	
VES Carbon-Influent	9-20-21	1010	Air	1	✓	✓		VOC's reported as
VES Carbon-Effluent	"	1000	Air	1	✓	✓		GRO (detection limit = 4.9 ppmv) and VOCs as Hexane (detection limit = 4.9 ppmv)
								Benzene (detection limit = 0.15 ppmv)

**Relinquished by:** *Glenn Androska* **Date:** 9-20-21 **Time:** 12:15 **Received by:**

**Relinquished by:** *Glenn Androska* **Date:** 9-20-21 **Time:** 15:08 **Received by:**

**Relinquished by:** *Glenn Androska* **Date:** **Time:** **Received by:**

**Client I.D.:** A5334244/120020

**Date:** 9/20/21 **Time:** 16:30 **Signature:** *Stacy*

**Priority:** PRIORITY

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





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

---

July 14, 2021

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013  
A5334106 / 1G07025**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/07/21 16:16 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile  
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5334106  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21

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

VES Thermox-Influent	1G07025-01	Vapor	5	07/07/21 14:00	07/07/21 16:16
VES Thermox-Effluent	1G07025-02	Vapor	5	07/07/21 13:57	07/07/21 16:16

**VOCs Gasoline Range Organics Vapor**

VES Thermox-Influent	1G07025-01	Vapor	5	07/07/21 14:00	07/07/21 16:16
VES Thermox-Effluent	1G07025-02	Vapor	5	07/07/21 13:57	07/07/21 16:16

**VOCs in Vapor as Hexane**

VES Thermox-Influent	1G07025-01	Vapor	5	07/07/21 14:00	07/07/21 16:16
VES Thermox-Effluent	1G07025-02	Vapor	5	07/07/21 13:57	07/07/21 16:16

**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:** A5334106  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21  
**Sampled:** 07/07/21  
**Prepared:** 07/08/21  
**Analyzed:** 07/08/21

**VES Thermax-Influent**  
**1G07025-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	3.0	ug/L	0.50	0.94	ppmv	0.16
Ethylbenzene	1.9	ug/L	0.50	0.44	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	2.0	ug/L	0.50	0.53	ppmv	0.13
o-Xylene	1.6	ug/L	0.50	0.37	ppmv	0.12
m,p-Xylenes	4.7	ug/L	1.0	1.1	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	91.0 %	70-140
Dibromofluoromethane	99.9 %	70-140
Toluene-d8	96.2 %	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:** 0.5

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

**AA Project No:** A5334106

**Date Received:** 07/07/21

**Date Reported:** 07/14/21

**Sampled:** 07/07/21

**Prepared:** 07/08/21

**Analyzed:** 07/08/21

### VES Thermax-Effluent

#### 1G07025-02 (Vapor)

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

#### Surrogates

4-Bromofluorobenzene

#### %REC

92.7 %

Dibromofluoromethane

96.3 %

Toluene-d8

94.6 %

#### %REC Limits

70-140

70-140

70-140

**Viorel Vasile**  
Operations Manager



## LABORATORY ANALYSIS RESULTS

**Client:** The Source Group, Inc. (SH)

**Project No:** 04-NDLA-013

**Project Name:** DFSP Norwalk VES AQMD

**Matrix:** Vapor

**Dilution:** 5

**Method:** Gasoline Range Organics in Vapor by GC/FID

**AA Project No:** A5334106

**Date Received:** 07/07/21

**Date Reported:** 07/14/21

**Sampled:** 07/07/21

**Prepared:** 07/09/21

**Analyzed:** 07/09/21

### VES Thermax-Influent

#### 1G07025-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>1900</b>	ug/L	20	<b>460</b>	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>				<b><u>%REC Limits</u></b>
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:** 1  
**Method:** Gasoline Range Organics in Vapor by GC/FID

**AA Project No:** A5334106  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21  
**Sampled:** 07/07/21  
**Prepared:** 07/08/21  
**Analyzed:** 07/08/21

**VES Thermax-Effluent**  
**1G07025-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		83.2 %			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:** A5334106  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21  
**Units:** ppmv

<b>Date Sampled:</b>	07/07/21	07/07/21	
<b>Date Prepared:</b>	07/09/21	07/08/21	
<b>Date Analyzed:</b>	07/09/21	07/08/21	
<b>AA ID No:</b>	1G07025-01	1G07025-02	
<b>Client ID No:</b>	VES	VES	
	Thermox-Influent	Thermox-Effluent	
<b>Matrix:</b>	Vapor	Vapor	
<b>Dilution Factor:</b>	5	1	MRL

### VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	<b>340</b>	<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:** A5334106  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B1G0815 - *** DEFAULT PREP ***</i>										
<b>Blank (B1G0815-BLK1)</b>				Prepared & Analyzed: 07/08/21						
Benzene	<0.25	0.25	ug/L							
Ethylbenzene	<0.25	0.25	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L							
Toluene	<0.25	0.25	ug/L							
o-Xylene	<0.25	0.25	ug/L							
m,p-Xylenes	<0.50	0.50	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	46.6		ug/L	50.0		93.3	70-140			
<i>Surrogate: Dibromofluoromethane</i>	48.3		ug/L	50.0		96.7	70-140			
<i>Surrogate: Toluene-d8</i>	47.4		ug/L	50.0		94.8	70-140			
<b>LCS (B1G0815-BS1)</b>				Prepared & Analyzed: 07/08/21						
Benzene	<b>17.2</b>	0.50	ug/L	20.0		86.1	75-125			
Ethylbenzene	<b>22.0</b>	0.50	ug/L	20.0		110	75-125			
Methyl-tert-Butyl Ether (MTBE)	<b>36.2</b>	2.0	ug/L	40.0		90.5	75-125			
Toluene	<b>20.2</b>	0.50	ug/L	20.0		101	75-125			
o-Xylene	<b>21.8</b>	0.50	ug/L	20.0		109	75-125			
m,p-Xylenes	<b>44.1</b>	1.0	ug/L	40.0		110	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	48.1		ug/L	50.0		96.1	70-140			
<i>Surrogate: Dibromofluoromethane</i>	43.8		ug/L	50.0		87.6	70-140			
<i>Surrogate: Toluene-d8</i>	48.5		ug/L	50.0		97.0	70-140			
<b>LCS Dup (B1G0815-BSD1)</b>				Prepared & Analyzed: 07/08/21						
Benzene	<b>18.4</b>	0.50	ug/L	20.0		91.8	75-125	6.35	30	
Ethylbenzene	<b>22.2</b>	0.50	ug/L	20.0		111	75-125	0.633	30	
Methyl-tert-Butyl Ether (MTBE)	<b>39.6</b>	2.0	ug/L	40.0		99.1	75-125	9.05	30	
Toluene	<b>21.0</b>	0.50	ug/L	20.0		105	75-125	4.07	30	
o-Xylene	<b>21.4</b>	0.50	ug/L	20.0		107	75-125	1.76	30	
m,p-Xylenes	<b>44.8</b>	1.0	ug/L	40.0		112	75-125	1.53	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	47.8		ug/L	50.0		95.7	70-140			
<i>Surrogate: Dibromofluoromethane</i>	45.5		ug/L	50.0		91.0	70-140			
<i>Surrogate: Toluene-d8</i>	47.6		ug/L	50.0		95.2	70-140			
<b>Duplicate (B1G0815-DUP1)</b>				Source: 1G07025-01 Prepared & Analyzed: 07/08/21						

**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:** A5334106  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B1G0815 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B1G0815-DUP1) Continued Source: 1G07025-01 Prepared &amp; Analyzed: 07/08/21</b>										
Benzene	3.13	0.50	ug/L		2.97			5.25	30	
Ethylbenzene	1.98	0.50	ug/L		1.86			6.25	30	
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L		<2.0				30	
Toluene	2.09	0.50	ug/L		1.97			5.91	30	
o-Xylene	1.71	0.50	ug/L		1.60			6.65	30	
m,p-Xylenes	4.85	1.0	ug/L		4.68			3.57	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	45.4		ug/L	50.0		90.9	70-140			
<i>Surrogate: Dibromofluoromethane</i>	50.1		ug/L	50.0		100	70-140			
<i>Surrogate: Toluene-d8</i>	48.4		ug/L	50.0		96.8	70-140			
<b>Gasoline Range Organics in Vapor by GC/FID - Quality Control</b>										
<i>Batch B1G0819 - *** DEFAULT PREP ***</i>										
<b>Blank (B1G0819-BLK1) Prepared &amp; Analyzed: 07/08/21</b>										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	57.1		ug/L	50.0		114	70-130			
<b>LCS (B1G0819-BS1) Prepared &amp; Analyzed: 07/08/21</b>										
Gasoline Range Organics (GRO)	491	20	ug/L	500		98.3	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	57.8		ug/L	50.0		116	70-130			
<b>LCS Dup (B1G0819-BSD1) Prepared &amp; Analyzed: 07/08/21</b>										
Gasoline Range Organics (GRO)	576	20	ug/L	500		115	75-125	15.9	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	64.7		ug/L	50.0		129	70-130			
<b>Duplicate (B1G0819-DUP1) Source: 1G07024-01 Prepared &amp; Analyzed: 07/08/21</b>										
Gasoline Range Organics (GRO)	86.2	20	ug/L		89.8			4.06	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	56.4		ug/L	50.0		113	70-130			
<i>Batch B1G0902 - *** DEFAULT PREP ***</i>										
<b>Blank (B1G0902-BLK1) Prepared &amp; Analyzed: 07/09/21</b>										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	53.4		ug/L	50.0		107	70-130			
<b>LCS (B1G0902-BS1) Prepared &amp; Analyzed: 07/09/21</b>										

**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:** A5334106  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Gasoline Range Organics in Vapor by GC/FID - Quality Control</b>										
<i>Batch B1G0902 - *** DEFAULT PREP ***</i>										
<b>LCS (B1G0902-BS1) Continued</b> Prepared & Analyzed: 07/09/21										
Gasoline Range Organics (GRO)	533	20	ug/L	500		107	75-125			
Surrogate: a,a,a-Trifluorotoluene	59.3		ug/L	50.0		119	70-130			
<b>LCS Dup (B1G0902-BSD1)</b> Prepared & Analyzed: 07/09/21										
Gasoline Range Organics (GRO)	577	20	ug/L	500		115	75-125	7.99	30	
Surrogate: a,a,a-Trifluorotoluene	62.0		ug/L	50.0		124	70-130			
<b>Duplicate (B1G0902-DUP1)</b> Source: 1G07026-02 Prepared & Analyzed: 07/09/21										
Gasoline Range Organics (GRO)	805	20	ug/L		832			3.32	30	
Surrogate: a,a,a-Trifluorotoluene	55.4		ug/L	50.0		111	70-130			
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B1G0819 - *** DEFAULT PREP ***</i>										
<b>Blank (B1G0819-BLK1)</b> Prepared & Analyzed: 07/08/21										
Total VOCs as Hexane	<4.9	4.9	ppmv							
<b>Duplicate (B1G0819-DUP1)</b> Source: 1G07024-01 Prepared & Analyzed: 07/08/21										
Total VOCs as Hexane	15.7	4.9	ppmv		16.3			3.56	30	
<i>Batch B1G0902 - *** DEFAULT PREP ***</i>										
<b>Blank (B1G0902-BLK1)</b> Prepared & Analyzed: 07/09/21										
Total VOCs as Hexane	<4.9	4.9	ppmv							
<b>Duplicate (B1G0902-DUP1)</b> Source: 1G07026-02 Prepared & Analyzed: 07/09/21										
Total VOCs as Hexane	146	4.9	ppmv		150			2.86	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:** A5334106  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21

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### Special Notes

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

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**Viorel Vasile**  
Operations Manager



# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

22933

Page 1 of 1

**Client:** The Source Group, Inc.      **Project Name / No.:** DFSP - Norwalk / 091-NOR-001 Task 2-10      **Sampler's Name:** Glenn Andreosko

**Project Manager:** Neil Irish      **Site Address:** 15306 Norwalk Blvd      **Sampler's Signature:** *Glenn Andreosko*

**Phone:** 562-597-1055      **City:** Norwalk      **P.O. No.:**

**Fax:** 569-597-1070      **State & Zip:** CA 90650      **Quote No.:**

### TAT Turnaround Codes \*\*

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

### ANALYSIS REQUESTED (Test Name)

Client I.D.	Date	Time	Sample Matrix	No. of Cont	Special Instructions
VES Thermox-Influent	7-7-21	1400	Air	1	VOC's reported as
VES Thermox-Effluent	"	1357	Air	1	GRO (detection limit = 4.9 ppmv) and VOCs as Hexane (detection limit = 4.9 ppmv) Benzene (detection limit = 0.15 ppmv)

Client I.D.	Date	Time	Sample Matrix	No. of Cont	Please enter the TAT Turnaround Codes ** below			Special Instructions
					TOTAL VOCs GAS 8019	TOTAL VOCs HEXANE 8015	BTEX/MTBE 8260B	
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Client I.D.	Date	Time	Relinquished by	Date	Time	Received by
	7-7-21	1400	<i>Glenn Andreosko</i>	7-7-21	2330	<i>[Signature]</i>
	"	1357	<i>[Signature]</i>	7-7-21	1616	<i>[Signature]</i>
			Relinquished by			Received by

AS334106/1607025

PRIORITY  
HPS  
RUSH  
12/11/21  
CSC-008  
CSC-008

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



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

---

August 24, 2021

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013  
A5334168 / 1H09018**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 08/09/21 18:23 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile  
Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334168  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21

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

VES Thermox-Influent	1H09018-01	Vapor	5	08/09/21 09:55	08/09/21 18:23
VES Thermox-Effluent	1H09018-02	Vapor	5	08/09/21 09:51	08/09/21 18:23

**VOCs Gasoline Range Organics Vapor**

VES Thermox-Influent	1H09018-01	Vapor	5	08/09/21 09:55	08/09/21 18:23
VES Thermox-Effluent	1H09018-02	Vapor	5	08/09/21 09:51	08/09/21 18:23

**VOCs in Vapor as Hexane**

VES Thermox-Influent	1H09018-01	Vapor	5	08/09/21 09:55	08/09/21 18:23
VES Thermox-Effluent	1H09018-02	Vapor	5	08/09/21 09:51	08/09/21 18:23

---

**Viorel Vasile**  
Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334168  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21  
**Sampled:** 08/09/21  
**Prepared:** 08/10/21  
**Analyzed:** 08/10/21

**VES Thermax-Influent**  
**1H09018-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	3.9	ug/L	0.50	1.2	ppmv	0.16
Ethylbenzene	2.0	ug/L	0.50	0.46	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<1.0	ug/L	2.0	<0.28	ppmv	0.55
Toluene	2.2	ug/L	0.50	0.58	ppmv	0.13
o-Xylene	1.6	ug/L	0.50	0.37	ppmv	0.12
m,p-Xylenes	4.5	ug/L	1.0	1.0	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	118 %	70-140
Dibromofluoromethane	130 %	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:** 0.5  
**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M

**AA Project No:** A5334168  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21  
**Sampled:** 08/09/21  
**Prepared:** 08/10/21  
**Analyzed:** 08/10/21

**VES Thermax-Effluent**  
**1H09018-02 (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	124 %	70-140
Dibromofluoromethane	79.2 %	70-140
Toluene-d8	103 %	70-140

**Viorel Vasile**  
 Operations Manager





### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334168  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21  
**Sampled:** 08/09/21  
**Prepared:** 08/10/21  
**Analyzed:** 08/10/21

**VES Thermax-Influent**  
**1H09018-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	1500	ug/L	20	370	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>				<b>%REC Limits</b>
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:** A5334168  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21  
**Sampled:** 08/09/21  
**Prepared:** 08/10/21  
**Analyzed:** 08/10/21

### VES Thermax-Effluent

#### 1H09018-02 (Vapor)

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

**Viorel Vasile**  
 Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334168  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21  
**Units:** ppmv

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<b>Date Sampled:</b>	08/09/21	08/09/21	
<b>Date Prepared:</b>	08/10/21	08/10/21	
<b>Date Analyzed:</b>	08/10/21	08/10/21	
<b>AA ID No:</b>	1H09018-01	1H09018-02	
<b>Client ID No:</b>	VES	VES	
	Thermox-Influent	Thermox-Effluent	
<b>Matrix:</b>	Vapor	Vapor	
<b>Dilution Factor:</b>	5	1	MRL

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**VOCs in Vapor as Hexane (EPA 8015M)**

Total VOCs as Hexane	<b>290</b>	<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:** A5334168  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B1H1020 - *** DEFAULT PREP ***</i>										
<b>Blank (B1H1020-BLK1)</b>				Prepared & Analyzed: 08/10/21						
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>	62.4		ug/L	50.0		125	70-140			
<i>Surrogate: Dibromofluoromethane</i>	65.0		ug/L	50.0		130	70-140			
<i>Surrogate: Toluene-d8</i>	52.7		ug/L	50.0		105	70-140			
<b>LCS (B1H1020-BS1)</b>				Prepared & Analyzed: 08/10/21						
Benzene	<b>20.9</b>	0.50	ug/L	20.0		104	75-125			
Ethylbenzene	<b>20.2</b>	0.50	ug/L	20.0		101	75-125			
Methyl-tert-Butyl Ether (MTBE)	<b>46.6</b>	2.0	ug/L	40.0		116	75-125			
Toluene	<b>18.8</b>	0.50	ug/L	20.0		93.8	75-125			
o-Xylene	<b>19.1</b>	0.50	ug/L	20.0		95.6	75-125			
m,p-Xylenes	<b>38.2</b>	1.0	ug/L	40.0		95.4	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	62.2		ug/L	50.0		124	70-140			
<i>Surrogate: Dibromofluoromethane</i>	58.0		ug/L	50.0		116	70-140			
<i>Surrogate: Toluene-d8</i>	53.6		ug/L	50.0		107	70-140			
<b>LCS Dup (B1H1020-BSD1)</b>				Prepared & Analyzed: 08/10/21						
Benzene	<b>21.6</b>	0.50	ug/L	20.0		108	75-125	3.39	30	
Ethylbenzene	<b>20.4</b>	0.50	ug/L	20.0		102	75-125	1.38	30	
Methyl-tert-Butyl Ether (MTBE)	<b>48.0</b>	2.0	ug/L	40.0		120	75-125	2.90	30	
Toluene	<b>19.4</b>	0.50	ug/L	20.0		97.0	75-125	3.46	30	
o-Xylene	<b>19.6</b>	0.50	ug/L	20.0		97.8	75-125	2.28	30	
m,p-Xylenes	<b>38.6</b>	1.0	ug/L	40.0		96.5	75-125	1.12	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	57.8		ug/L	50.0		116	70-140			
<i>Surrogate: Dibromofluoromethane</i>	57.9		ug/L	50.0		116	70-140			
<i>Surrogate: Toluene-d8</i>	53.6		ug/L	50.0		107	70-140			
<b>Duplicate (B1H1020-DUP1)</b>				Source: 1H09016-01 Prepared & Analyzed: 08/10/21						

**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:** A5334168  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B1H1020 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B1H1020-DUP1) Continued Source: 1H09016-01 Prepared &amp; Analyzed: 08/10/21</b>										
Benzene	<0.25	0.25	ug/L						30	
Ethylbenzene	<0.25	0.25	ug/L						30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	<0.25	0.25	ug/L						30	
o-Xylene	<0.25	0.25	ug/L						30	
m,p-Xylenes	<0.50	0.50	ug/L						30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>60.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>122</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>66.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>134</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>52.6</i>		<i>ug/L</i>	<i>50.0</i>		<i>105</i>	<i>70-140</i>			
<b>Gasoline Range Organics in Vapor by GC/FID - Quality Control</b>										
<i>Batch B1H1021 - *** DEFAULT PREP ***</i>										
<b>Blank (B1H1021-BLK1) Prepared &amp; Analyzed: 08/10/21</b>										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>50.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>100</i>	<i>70-130</i>			
<b>LCS (B1H1021-BS1) Prepared &amp; Analyzed: 08/10/21</b>										
Gasoline Range Organics (GRO)	<b>482</b>	20	ug/L	500		96.5	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>58.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>117</i>	<i>70-130</i>			
<b>LCS Dup (B1H1021-BSD1) Prepared &amp; Analyzed: 08/10/21</b>										
Gasoline Range Organics (GRO)	<b>448</b>	20	ug/L	500		89.5	75-125	7.50	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>58.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>118</i>	<i>70-130</i>			
<b>Duplicate (B1H1021-DUP1) Source: 1H10005-01 Prepared &amp; Analyzed: 08/10/21</b>										
Gasoline Range Organics (GRO)	<b>2190</b>	20	ug/L		2120			3.13	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>59.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>118</i>	<i>70-130</i>			
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B1H1021 - *** DEFAULT PREP ***</i>										
<b>Blank (B1H1021-BLK1) Prepared &amp; Analyzed: 08/10/21</b>										
Total VOCs as Hexane	<4.9	4.9	ppmv							
<b>Duplicate (B1H1021-DUP1) Source: 1H10005-01 Prepared &amp; Analyzed: 08/10/21</b>										

**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:** A5334168  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B1H1021 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B1H1021-DUP1) Continued Source: 1H10005-01 Prepared &amp; Analyzed: 08/10/21</b>										
Total VOCs as Hexane	425	4.9	ppmv		412			3.14	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:** A5334168  
**Date Received:** 08/09/21  
**Date Reported:** 08/24/21

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### Special Notes

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

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**Viorel Vasile**  
Operations Manager







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

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September 29, 2021

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013  
A5334245 / 1120021**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 09/20/21 15:48 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile  
Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334245  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21

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

VES Thermox-Influent	1I20021-01	Vapor	5	09/20/21 10:35	09/20/21 15:48
VES Thermox-Effluent	1I20021-02	Vapor	5	09/20/21 10:32	09/20/21 15:48

**VOCs Gasoline Range Organics Vapor**

VES Thermox-Influent	1I20021-01	Vapor	5	09/20/21 10:35	09/20/21 15:48
VES Thermox-Effluent	1I20021-02	Vapor	5	09/20/21 10:32	09/20/21 15:48

**VOCs in Vapor as Hexane**

VES Thermox-Influent	1I20021-01	Vapor	5	09/20/21 10:35	09/20/21 15:48
VES Thermox-Effluent	1I20021-02	Vapor	5	09/20/21 10:32	09/20/21 15:48

**Viorel Vasile**  
Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334245  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21  
**Sampled:** 09/20/21  
**Prepared:** 09/23/21  
**Analyzed:** 09/24/21

**VES Thermax-Influent**  
**1120021-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	1.4	ug/L	0.50	0.44	ppmv	0.16
Ethylbenzene	1.4	ug/L	0.50	0.32	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<1.0	ug/L	2.0	<0.28	ppmv	0.55
Toluene	1.4	ug/L	0.50	0.37	ppmv	0.13
o-Xylene	1.3	ug/L	0.50	0.30	ppmv	0.12
m,p-Xylenes	3.6	ug/L	1.0	0.83	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	75.2 %	70-140
Dibromofluoromethane	153 % S-GC	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:** A5334245  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21  
**Sampled:** 09/20/21  
**Prepared:** 09/23/21  
**Analyzed:** 09/24/21

**VES Thermax-Effluent**  
**1120021-02 (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	82.9 %	70-140
Dibromofluoromethane	157 % S-GC	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:** 5  
**Method:** Gasoline Range Organics in Vapor by GC/FID

**AA Project No:** A5334245  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21  
**Sampled:** 09/20/21  
**Prepared:** 09/21/21  
**Analyzed:** 09/21/21

**VES Thermax-Influent**  
**1120021-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	1300	ug/L	20	320	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>			<b>%REC Limits</b>	
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:** A5334245  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21  
**Sampled:** 09/20/21  
**Prepared:** 09/21/21  
**Analyzed:** 09/21/21

**VES Thermax-Effluent**  
**1120021-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
a,a,a-Trifluorotoluene		92.7 %			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:** A5334245  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21  
**Units:** ppmv

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<b>Date Sampled:</b>	09/20/21	09/20/21	
<b>Date Prepared:</b>	09/21/21	09/21/21	
<b>Date Analyzed:</b>	09/21/21	09/21/21	
<b>AA ID No:</b>	1120021-01	1120021-02	
<b>Client ID No:</b>	VES	VES	
	Thermox-Influent	Thermox-Effluent	
<b>Matrix:</b>	Vapor	Vapor	
<b>Dilution Factor:</b>	5	1	MRL

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**VOCs in Vapor as Hexane (EPA 8015M)**

Total VOCs as Hexane	<b>240</b>	<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:** A5334245  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B1I2227 - *** DEFAULT PREP ***</i>										
<b>Blank (B1I2227-BLK1)</b> Prepared & Analyzed: 09/23/21										
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>	40.7		ug/L	50.0		81.4	70-140			
<i>Surrogate: Dibromofluoromethane</i>	69.5		ug/L	50.0		139	70-140			
<i>Surrogate: Toluene-d8</i>	56.2		ug/L	50.0		112	70-140			
<b>LCS (B1I2227-BS1)</b> Prepared & Analyzed: 09/23/21										
Benzene	<b>22.0</b>	0.50	ug/L	20.0		110	75-125			
Ethylbenzene	<b>22.4</b>	0.50	ug/L	20.0		112	75-125			
Methyl-tert-Butyl Ether (MTBE)	<b>32.9</b>	2.0	ug/L	40.0		82.3	75-125			
Toluene	<b>20.4</b>	0.50	ug/L	20.0		102	75-125			
o-Xylene	<b>22.9</b>	0.50	ug/L	20.0		114	75-125			
m,p-Xylenes	<b>46.1</b>	1.0	ug/L	40.0		115	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	41.0		ug/L	50.0		82.0	70-140			
<i>Surrogate: Dibromofluoromethane</i>	61.7		ug/L	50.0		123	70-140			
<i>Surrogate: Toluene-d8</i>	58.0		ug/L	50.0		116	70-140			
<b>LCS Dup (B1I2227-bsd1)</b> Prepared: 09/23/21 Analyzed: 09/24/21										
Benzene	<b>19.1</b>	0.50	ug/L	20.0		95.4	75-125	14.3	30	
Ethylbenzene	<b>21.7</b>	0.50	ug/L	20.0		108	75-125	3.36	30	
Methyl-tert-Butyl Ether (MTBE)	<b>33.8</b>	2.0	ug/L	40.0		84.4	75-125	2.55	30	
Toluene	<b>20.1</b>	0.50	ug/L	20.0		100	75-125	1.48	30	
o-Xylene	<b>22.8</b>	0.50	ug/L	20.0		114	75-125	0.482	30	
m,p-Xylenes	<b>45.6</b>	1.0	ug/L	40.0		114	75-125	1.16	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	39.7		ug/L	50.0		79.4	70-140			
<i>Surrogate: Dibromofluoromethane</i>	61.3		ug/L	50.0		123	70-140			
<i>Surrogate: Toluene-d8</i>	58.4		ug/L	50.0		117	70-140			
<b>Duplicate (B1I2227-DUP1)</b> Source: 1120021-01 Prepared: 09/23/21 Analyzed: 09/24/21										

**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:** A5334245  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21

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 B112227 - \*\*\* DEFAULT PREP \*\*\*

**Duplicate (B112227-DUP1) Continued** Source: 1120021-01 Prepared: 09/23/21 Analyzed: 09/24/21

Benzene	1.43	0.25	ug/L		1.42			0.702	30	
Ethylbenzene	1.68	0.25	ug/L		1.35			21.8	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L		<1.0				30	
Toluene	1.73	0.25	ug/L		1.40			20.7	30	
o-Xylene	1.52	0.25	ug/L		1.26			18.8	30	
m,p-Xylenes	4.39	0.50	ug/L		3.62			19.1	30	
Surrogate: 4-Bromofluorobenzene	36.5		ug/L	50.0		73.0	70-140			
Surrogate: Dibromofluoromethane	69.8		ug/L	50.0		140	70-140			
Surrogate: Toluene-d8	56.2		ug/L	50.0		112	70-140			

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

Batch B112122 - \*\*\* DEFAULT PREP \*\*\*

**Blank (B112122-BLK1)**

Prepared &amp; Analyzed: 09/21/21

Gasoline Range Organics (GRO)	<20	20	ug/L							
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Surrogate: a,a,a-Trifluorotoluene 44.0 ug/L 50.0 88.0 70-130

**LCS (B112122-BS1)**

Prepared &amp; Analyzed: 09/21/21

Gasoline Range Organics (GRO)	441	20	ug/L	500		88.2	75-125			
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Surrogate: a,a,a-Trifluorotoluene 50.9 ug/L 50.0 102 70-130

**LCS Dup (B112122-BSD1)**

Prepared &amp; Analyzed: 09/21/21

Gasoline Range Organics (GRO)	552	20	ug/L	500		110	75-125	22.4	30	
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Surrogate: a,a,a-Trifluorotoluene 58.1 ug/L 50.0 116 70-130

**Duplicate (B112122-DUP1)**

Source: 1120021-01

Prepared &amp; Analyzed: 09/21/21

Gasoline Range Organics (GRO)	1310	100	ug/L		1310			0.192	30	
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Surrogate: a,a,a-Trifluorotoluene 53.5 ug/L 50.0 107 70-130

**VOCs in Vapor as Hexane - Quality Control**

Batch B112122 - \*\*\* DEFAULT PREP \*\*\*

**Blank (B112122-BLK1)**

Prepared &amp; Analyzed: 09/21/21

Total VOCs as Hexane	<4.9	4.9	ppmv							
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**Duplicate (B112122-DUP1)**

Source: 1120021-01

Prepared &amp; Analyzed: 09/21/21

**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:** A5334245  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B112122 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B112122-DUP1) Continued Source: 1120021-01 Prepared &amp; Analyzed: 09/21/21</b>										
Total VOCs as Hexane	238	24	ppmv		237			0.430	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:** A5334245  
**Date Received:** 09/20/21  
**Date Reported:** 09/29/21

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### Special Notes

[1] = **S-GC** : Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

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

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**Viorel Vasile**  
Operations Manager





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

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July 15, 2021

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013  
A5334108 / 1G07027**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/07/21 16:16 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile  
Operations Manager



**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5334108  
**Date Received:** 07/07/21  
**Date Reported:** 07/15/21

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

HW-1	1G07027-01	Vapor	5	07/07/21 14:28	07/07/21 16:16
HW-5	1G07027-02	Vapor	5	07/07/21 14:29	07/07/21 16:16
HW-7	1G07027-03	Vapor	5	07/07/21 14:30	07/07/21 16:16
HW-9	1G07027-04	Vapor	5	07/07/21 14:32	07/07/21 16:16

**VOCs Gasoline Range Organics Vapor**

HW-1	1G07027-01	Vapor	5	07/07/21 14:28	07/07/21 16:16
HW-5	1G07027-02	Vapor	5	07/07/21 14:29	07/07/21 16:16
HW-7	1G07027-03	Vapor	5	07/07/21 14:30	07/07/21 16:16
HW-9	1G07027-04	Vapor	5	07/07/21 14:32	07/07/21 16:16

**VOCs in Vapor as Hexane**

HW-1	1G07027-01	Vapor	5	07/07/21 14:28	07/07/21 16:16
HW-5	1G07027-02	Vapor	5	07/07/21 14:29	07/07/21 16:16
HW-7	1G07027-03	Vapor	5	07/07/21 14:30	07/07/21 16:16
HW-9	1G07027-04	Vapor	5	07/07/21 14:32	07/07/21 16:16

**Viorel Vasile**  
Operations Manager



### LABORATORY ANALYSIS RESULTS

<b>Client:</b>	The Source Group, Inc. (SH)	<b>AA Project No:</b>	A5334108
<b>Project No:</b>	04-NDLA-013	<b>Date Received:</b>	07/07/21
<b>Project Name:</b>	DFSP Norwalk VES AQMD	<b>Date Reported:</b>	07/15/21
<b>Matrix:</b>	Vapor	<b>Sampled:</b>	07/07/21
<b>Dilution:</b>	1	<b>Prepared:</b>	07/08/21
<b>Method:</b>	VOCs BTEX/MTBE Vapor by GC/MS 8260M	<b>Analyzed:</b>	07/08/21

HW-1

1G07027-01 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	93.8 %	70-140
Dibromofluoromethane	99.1 %	70-140
Toluene-d8	94.4 %	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:** VOCs BTEX/MTBE Vapor by GC/MS 8260M

**AA Project No:** A5334108  
**Date Received:** 07/07/21  
**Date Reported:** 07/15/21  
**Sampled:** 07/07/21  
**Prepared:** 07/08/21  
**Analyzed:** 07/08/21

**HW-5**

**1G07027-02 (Vapor)**

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	91.8 %	70-140
Dibromofluoromethane	98.0 %	70-140
Toluene-d8	93.9 %	70-140

**Viorel Vasile**  
 Operations Manager





### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334108  
**Date Received:** 07/07/21  
**Date Reported:** 07/15/21  
**Sampled:** 07/07/21  
**Prepared:** 07/08/21  
**Analyzed:** 07/08/21

HW-7

1G07027-03 (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	93.9 %	70-140
Dibromofluoromethane	99.7 %	70-140
Toluene-d8	94.9 %	70-140

**Viorel Vasile**  
 Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334108  
**Date Received:** 07/07/21  
**Date Reported:** 07/15/21  
**Sampled:** 07/07/21  
**Prepared:** 07/08/21  
**Analyzed:** 07/08/21

**HW-9**

**1G07027-04 (Vapor)**

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	91.5 %	70-140
Dibromofluoromethane	98.3 %	70-140
Toluene-d8	95.3 %	70-140

**Viorel Vasile**  
Operations Manager



### LABORATORY ANALYSIS RESULTS

<b>Client:</b>	The Source Group, Inc. (SH)	<b>AA Project No:</b>	A5334108
<b>Project No:</b>	04-NDLA-013	<b>Date Received:</b>	07/07/21
<b>Project Name:</b>	DFSP Norwalk VES AQMD	<b>Date Reported:</b>	07/15/21
<b>Matrix:</b>	Vapor	<b>Sampled:</b>	07/07/21
<b>Dilution:</b>	1	<b>Prepared:</b>	07/08/21
<b>Method:</b>	Gasoline Range Organics in Vapor by GC/FID	<b>Analyzed:</b>	07/08/21

HW-1

1G07027-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	68	ug/L	20	17	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>				<b>%REC Limits</b>
a,a,a-Trifluorotoluene		115 %				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:** A5334108  
**Date Received:** 07/07/21  
**Date Reported:** 07/15/21  
**Sampled:** 07/07/21  
**Prepared:** 07/09/21  
**Analyzed:** 07/09/21

**HW-5**

**1G07027-02 (Vapor)**

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

**Viorel Vasile**  
Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334108  
**Date Received:** 07/07/21  
**Date Reported:** 07/15/21  
**Sampled:** 07/07/21  
**Prepared:** 07/08/21  
**Analyzed:** 07/08/21

HW-7

1G07027-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	140	ug/L	20	34	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>				<b>%REC Limits</b>
a,a,a-Trifluorotoluene		120 %				70-130

**Viorel Vasile**  
Operations Manager



## LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334108  
**Date Received:** 07/07/21  
**Date Reported:** 07/15/21  
**Sampled:** 07/07/21  
**Prepared:** 07/08/21  
**Analyzed:** 07/08/21

**HW-9**

**1G07027-04 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>670</b>	ug/L	20	<b>160</b>	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>				<b><u>%REC Limits</u></b>
a,a,a-Trifluorotoluene		121 %				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:** A5334108  
**Date Received:** 07/07/21  
**Date Reported:** 07/15/21  
**Units:** ppmv

<b>Date Sampled:</b>	07/07/21	07/07/21	07/07/21	07/07/21
<b>Date Prepared:</b>	07/08/21	07/09/21	07/08/21	07/08/21
<b>Date Analyzed:</b>	07/08/21	07/09/21	07/08/21	07/08/21
<b>AA ID No:</b>	1G07027-01	1G07027-02	1G07027-03	1G07027-04
<b>Client ID No:</b>	HW-1	HW-5	HW-7	HW-9
<b>Matrix:</b>	Vapor	Vapor	Vapor	Vapor
<b>Dilution Factor:</b>	1	1	1	1
				MRL

### VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	12	<4.9	25	120	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:** A5334108  
**Date Received:** 07/07/21  
**Date Reported:** 07/15/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B1G0815 - *** DEFAULT PREP ***</i>										
<b>Blank (B1G0815-BLK1)</b> Prepared & Analyzed: 07/08/21										
Benzene	<0.25	0.25	ug/L							
Ethylbenzene	<0.25	0.25	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L							
Toluene	<0.25	0.25	ug/L							
o-Xylene	<0.25	0.25	ug/L							
m,p-Xylenes	<0.50	0.50	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	46.6		ug/L	50.0		93.3	70-140			
<i>Surrogate: Dibromofluoromethane</i>	48.3		ug/L	50.0		96.7	70-140			
<i>Surrogate: Toluene-d8</i>	47.4		ug/L	50.0		94.8	70-140			
<b>LCS (B1G0815-BS1)</b> Prepared & Analyzed: 07/08/21										
Benzene	<b>17.2</b>	0.50	ug/L	20.0		86.1	75-125			
Ethylbenzene	<b>22.0</b>	0.50	ug/L	20.0		110	75-125			
Methyl-tert-Butyl Ether (MTBE)	<b>36.2</b>	2.0	ug/L	40.0		90.5	75-125			
Toluene	<b>20.2</b>	0.50	ug/L	20.0		101	75-125			
o-Xylene	<b>21.8</b>	0.50	ug/L	20.0		109	75-125			
m,p-Xylenes	<b>44.1</b>	1.0	ug/L	40.0		110	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	48.1		ug/L	50.0		96.1	70-140			
<i>Surrogate: Dibromofluoromethane</i>	43.8		ug/L	50.0		87.6	70-140			
<i>Surrogate: Toluene-d8</i>	48.5		ug/L	50.0		97.0	70-140			
<b>LCS Dup (B1G0815-BSD1)</b> Prepared & Analyzed: 07/08/21										
Benzene	<b>18.4</b>	0.50	ug/L	20.0		91.8	75-125	6.35	30	
Ethylbenzene	<b>22.2</b>	0.50	ug/L	20.0		111	75-125	0.633	30	
Methyl-tert-Butyl Ether (MTBE)	<b>39.6</b>	2.0	ug/L	40.0		99.1	75-125	9.05	30	
Toluene	<b>21.0</b>	0.50	ug/L	20.0		105	75-125	4.07	30	
o-Xylene	<b>21.4</b>	0.50	ug/L	20.0		107	75-125	1.76	30	
m,p-Xylenes	<b>44.8</b>	1.0	ug/L	40.0		112	75-125	1.53	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	47.8		ug/L	50.0		95.7	70-140			
<i>Surrogate: Dibromofluoromethane</i>	45.5		ug/L	50.0		91.0	70-140			
<i>Surrogate: Toluene-d8</i>	47.6		ug/L	50.0		95.2	70-140			
<b>Duplicate (B1G0815-DUP1)</b> Source: 1G07025-01 Prepared & Analyzed: 07/08/21										

**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:** A5334108  
**Date Received:** 07/07/21  
**Date Reported:** 07/15/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B1G0815 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B1G0815-DUP1) Continued Source: 1G07025-01 Prepared &amp; Analyzed: 07/08/21</b>										
Benzene	3.13	0.50	ug/L		2.97			5.25	30	
Ethylbenzene	1.98	0.50	ug/L		1.86			6.25	30	
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L						30	
Toluene	2.09	0.50	ug/L		1.97			5.91	30	
o-Xylene	1.71	0.50	ug/L		1.60			6.65	30	
m,p-Xylenes	4.85	1.0	ug/L		4.68			3.57	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	45.4		ug/L	50.0		90.9	70-140			
<i>Surrogate: Dibromofluoromethane</i>	50.1		ug/L	50.0		100	70-140			
<i>Surrogate: Toluene-d8</i>	48.4		ug/L	50.0		96.8	70-140			
<b>Gasoline Range Organics in Vapor by GC/FID - Quality Control</b>										
<i>Batch B1G0819 - *** DEFAULT PREP ***</i>										
<b>Blank (B1G0819-BLK1) Prepared &amp; Analyzed: 07/08/21</b>										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	57.1		ug/L	50.0		114	70-130			
<b>LCS (B1G0819-BS1) Prepared &amp; Analyzed: 07/08/21</b>										
Gasoline Range Organics (GRO)	491	20	ug/L	500		98.3	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	57.8		ug/L	50.0		116	70-130			
<b>LCS Dup (B1G0819-BSD1) Prepared &amp; Analyzed: 07/08/21</b>										
Gasoline Range Organics (GRO)	576	20	ug/L	500		115	75-125	15.9	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	64.7		ug/L	50.0		129	70-130			
<b>Duplicate (B1G0819-DUP1) Source: 1G07024-01 Prepared &amp; Analyzed: 07/08/21</b>										
Gasoline Range Organics (GRO)	86.2	20	ug/L		89.8			4.06	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	56.4		ug/L	50.0		113	70-130			
<i>Batch B1G0902 - *** DEFAULT PREP ***</i>										
<b>Blank (B1G0902-BLK1) Prepared &amp; Analyzed: 07/09/21</b>										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	53.4		ug/L	50.0		107	70-130			
<b>LCS (B1G0902-BS1) Prepared &amp; Analyzed: 07/09/21</b>										

**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:** A5334108  
**Date Received:** 07/07/21  
**Date Reported:** 07/15/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Gasoline Range Organics in Vapor by GC/FID - Quality Control</b>										
<i>Batch B1G0902 - *** DEFAULT PREP ***</i>										
<b>LCS (B1G0902-BS1) Continued</b> Prepared & Analyzed: 07/09/21										
Gasoline Range Organics (GRO)	533	20	ug/L	500		107	75-125			
Surrogate: a,a,a-Trifluorotoluene	59.3		ug/L	50.0		119	70-130			
<b>LCS Dup (B1G0902-BSD1)</b> Prepared & Analyzed: 07/09/21										
Gasoline Range Organics (GRO)	577	20	ug/L	500		115	75-125	7.99	30	
Surrogate: a,a,a-Trifluorotoluene	62.0		ug/L	50.0		124	70-130			
<b>Duplicate (B1G0902-DUP1)</b> Source: 1G07026-02 Prepared & Analyzed: 07/09/21										
Gasoline Range Organics (GRO)	805	20	ug/L		832			3.32	30	
Surrogate: a,a,a-Trifluorotoluene	55.4		ug/L	50.0		111	70-130			
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B1G0819 - *** DEFAULT PREP ***</i>										
<b>Blank (B1G0819-BLK1)</b> Prepared & Analyzed: 07/08/21										
Total VOCs as Hexane	<4.9	4.9	ppmv							
<b>Duplicate (B1G0819-DUP1)</b> Source: 1G07024-01 Prepared & Analyzed: 07/08/21										
Total VOCs as Hexane	15.7	4.9	ppmv		16.3			3.56	30	
<i>Batch B1G0902 - *** DEFAULT PREP ***</i>										
<b>Blank (B1G0902-BLK1)</b> Prepared & Analyzed: 07/09/21										
Total VOCs as Hexane	<4.9	4.9	ppmv							
<b>Duplicate (B1G0902-DUP1)</b> Source: 1G07026-02 Prepared & Analyzed: 07/09/21										
Total VOCs as Hexane	146	4.9	ppmv		150			2.86	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:** A5334108  
**Date Received:** 07/07/21  
**Date Reported:** 07/15/21

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### Special Notes

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

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**Viorel Vasile**  
Operations Manager





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

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July 14, 2021

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013  
A5334107 / 1G07026**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 07/07/21 16:16 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile  
Operations Manager



**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5334107  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21

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

Trunkline#1(East)	1G07026-01	Vapor	5	07/07/21 14:14	07/07/21 16:16
Trunkline#2(South)	1G07026-02	Vapor	5	07/07/21 14:17	07/07/21 16:16
Trunkline#3(Central S)	1G07026-03	Vapor	5	07/07/21 14:21	07/07/21 16:16
Trunkline#4(Central E)	1G07026-04	Vapor	5	07/07/21 14:20	07/07/21 16:16
Trunkline#5(Central W)	1G07026-05	Vapor	5	07/07/21 14:19	07/07/21 16:16

**VOCs Gasoline Range Organics Vapor**

Trunkline#1(East)	1G07026-01	Vapor	5	07/07/21 14:14	07/07/21 16:16
Trunkline#2(South)	1G07026-02	Vapor	5	07/07/21 14:17	07/07/21 16:16
Trunkline#3(Central S)	1G07026-03	Vapor	5	07/07/21 14:21	07/07/21 16:16
Trunkline#4(Central E)	1G07026-04	Vapor	5	07/07/21 14:20	07/07/21 16:16
Trunkline#5(Central W)	1G07026-05	Vapor	5	07/07/21 14:19	07/07/21 16:16

**VOCs in Vapor as Hexane**

Trunkline#1(East)	1G07026-01	Vapor	5	07/07/21 14:14	07/07/21 16:16
Trunkline#2(South)	1G07026-02	Vapor	5	07/07/21 14:17	07/07/21 16:16
Trunkline#3(Central S)	1G07026-03	Vapor	5	07/07/21 14:21	07/07/21 16:16
Trunkline#4(Central E)	1G07026-04	Vapor	5	07/07/21 14:20	07/07/21 16:16
Trunkline#5(Central W)	1G07026-05	Vapor	5	07/07/21 14:19	07/07/21 16:16

**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:** A5334107  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21  
**Sampled:** 07/07/21  
**Prepared:** 07/08/21  
**Analyzed:** 07/08/21

**Trunkline#1(East)**  
**1G07026-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	0.75	ug/L	0.50	0.23	ppmv	0.16
Ethylbenzene	1.1	ug/L	0.50	0.25	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	1.4	ug/L	0.50	0.37	ppmv	0.13
o-Xylene	1.0	ug/L	0.50	0.23	ppmv	0.12
m,p-Xylenes	3.1	ug/L	1.0	0.71	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	88.2 %	70-140
Dibromofluoromethane	98.9 %	70-140
Toluene-d8	96.9 %	70-140

**Viorel Vasile**  
 Operations Manager



### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334107  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21  
**Sampled:** 07/07/21  
**Prepared:** 07/08/21  
**Analyzed:** 07/08/21

**Trunkline#2(South)**  
**1G07026-02 (Vapor)**

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	98.0 %	70-140
Dibromofluoromethane	98.0 %	70-140
Toluene-d8	98.1 %	70-140

**Viorel Vasile**  
 Operations Manager





**LABORATORY ANALYSIS RESULTS**

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

**AA Project No:** A5334107  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21  
**Sampled:** 07/07/21  
**Prepared:** 07/08/21  
**Analyzed:** 07/08/21

**Trunkline#3(Central S)**

**1G07026-03 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	5.2	ug/L	0.50	1.6	ppmv	0.16
Ethylbenzene	3.4	ug/L	0.50	0.78	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	0.67	ug/L	0.50	0.18	ppmv	0.13
o-Xylene	3.2	ug/L	0.50	0.74	ppmv	0.12
m,p-Xylenes	9.8	ug/L	1.0	2.3	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	90.7 %	70-140
Dibromofluoromethane	96.7 %	70-140
Toluene-d8	99.2 %	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:** A5334107  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21  
**Sampled:** 07/07/21  
**Prepared:** 07/08/21  
**Analyzed:** 07/08/21

**Trunkline#4(Central E)**  
**1G07026-04 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	12	ug/L	0.50	3.8	ppmv	0.16
Ethylbenzene	6.1	ug/L	0.50	1.4	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	13	ug/L	0.50	3.4	ppmv	0.13
o-Xylene	6.6	ug/L	0.50	1.5	ppmv	0.12
m,p-Xylenes	17	ug/L	1.0	3.9	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	88.5 %	70-140
Dibromofluoromethane	99.4 %	70-140
Toluene-d8	96.3 %	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:** 1  
**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M

**AA Project No:** A5334107  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21  
**Sampled:** 07/07/21  
**Prepared:** 07/08/21  
**Analyzed:** 07/08/21

**Trunkline#5(Central W)**  
**1G07026-05 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	1.0	ug/L	0.50	0.31	ppmv	0.16
Ethylbenzene	1.4	ug/L	0.50	0.32	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	89.3 %	70-140
Dibromofluoromethane	101 %	70-140
Toluene-d8	97.1 %	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:** 5  
**Method:** Gasoline Range Organics in Vapor by GC/FID

**AA Project No:** A5334107  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21  
**Sampled:** 07/07/21  
**Prepared:** 07/09/21  
**Analyzed:** 07/09/21

**Trunkline#1(East)**  
**1G07026-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	1300	ug/L	20	320	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>			<b><u>%REC Limits</u></b>	
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:** A5334107  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21  
**Sampled:** 07/07/21  
**Prepared:** 07/09/21  
**Analyzed:** 07/09/21

**Trunkline#2(South)**  
**1G07026-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	830	ug/L	20	200	ppmv	4.9
<b>Surrogates</b>		<b>%REC</b>			<b>%REC Limits</b>	
a,a,a-Trifluorotoluene		112 %			70-130	

**Viorel Vasile**  
 Operations Manager



## LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334107  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21  
**Sampled:** 07/07/21  
**Prepared:** 07/09/21  
**Analyzed:** 07/09/21

### Trunkline#3(Central S)

### 1G07026-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>4000</b>	ug/L	20	<b>980</b>	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>				<b><u>%REC Limits</u></b>
a,a,a-Trifluorotoluene		108 %				70-130

**Viorel Vasile**  
 Operations Manager



## LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334107  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21  
**Sampled:** 07/07/21  
**Prepared:** 07/09/21  
**Analyzed:** 07/09/21

### Trunkline#4(Central E)

### 1G07026-04 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>5000</b>	ug/L	20	<b>1200</b>	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>				<b><u>%REC Limits</u></b>
a,a,a-Trifluorotoluene		117 %				70-130

**Viorel Vasile**  
 Operations Manager



## LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334107  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21  
**Sampled:** 07/07/21  
**Prepared:** 07/09/21  
**Analyzed:** 07/09/21

### Trunkline#5(Central W)

### 1G07026-05 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<b>1300</b>	ug/L	20	<b>320</b>	ppmv	4.9
<b><u>Surrogates</u></b>		<b><u>%REC</u></b>				<b><u>%REC Limits</u></b>
a,a,a-Trifluorotoluene		114 %				70-130

**Viorel Vasile**  
 Operations Manager





### LABORATORY ANALYSIS RESULTS

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

**AA Project No:** A5334107  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21  
**Units:** ppmv

<b>Date Sampled:</b>	07/07/21	07/07/21	07/07/21	07/07/21	
<b>Date Prepared:</b>	07/09/21	07/09/21	07/09/21	07/09/21	
<b>Date Analyzed:</b>	07/09/21	07/09/21	07/09/21	07/09/21	
<b>AA ID No:</b>	1G07026-01	1G07026-02	1G07026-03	1G07026-04	
<b>Client ID No:</b>	Trunkline#1(East)	Trunkline#2(South)	Trunkline#3(Centr al S)	Trunkline#4(Centr al E)	
<b>Matrix:</b>	Vapor	Vapor	Vapor	Vapor	
<b>Dilution Factor:</b>	5	1	10	10	MRL

#### VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	<b>230</b>	<b>150</b>	<b>720</b>	<b>920</b>	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:** A5334107  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21  
**Units:** ppmv

---

<b>Date Sampled:</b>	07/07/21	
<b>Date Prepared:</b>	07/09/21	
<b>Date Analyzed:</b>	07/09/21	
<b>AA ID No:</b>	1G07026-05	
<b>Client ID No:</b>	Trunkline#5(Centr al W)	
<b>Matrix:</b>	Vapor	
<b>Dilution Factor:</b>	10	MRL

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### VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	<b>230</b>	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:** A5334107  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>									
<i>Batch B1G0815 - *** DEFAULT PREP ***</i>									
<b>Blank (B1G0815-BLK1)</b>					Prepared & Analyzed: 07/08/21				
Benzene	<0.25	0.25	ug/L						
Ethylbenzene	<0.25	0.25	ug/L						
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						
Toluene	<0.25	0.25	ug/L						
o-Xylene	<0.25	0.25	ug/L						
m,p-Xylenes	<0.50	0.50	ug/L						
<i>Surrogate: 4-Bromofluorobenzene</i>	46.6		ug/L	50.0		93.3 70-140			
<i>Surrogate: Dibromofluoromethane</i>	48.3		ug/L	50.0		96.7 70-140			
<i>Surrogate: Toluene-d8</i>	47.4		ug/L	50.0		94.8 70-140			
<b>LCS (B1G0815-BS1)</b>					Prepared & Analyzed: 07/08/21				
Benzene	<b>17.2</b>	0.50	ug/L	20.0		86.1 75-125			
Ethylbenzene	<b>22.0</b>	0.50	ug/L	20.0		110 75-125			
Methyl-tert-Butyl Ether (MTBE)	<b>36.2</b>	2.0	ug/L	40.0		90.5 75-125			
Toluene	<b>20.2</b>	0.50	ug/L	20.0		101 75-125			
o-Xylene	<b>21.8</b>	0.50	ug/L	20.0		109 75-125			
m,p-Xylenes	<b>44.1</b>	1.0	ug/L	40.0		110 75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	48.1		ug/L	50.0		96.1 70-140			
<i>Surrogate: Dibromofluoromethane</i>	43.8		ug/L	50.0		87.6 70-140			
<i>Surrogate: Toluene-d8</i>	48.5		ug/L	50.0		97.0 70-140			
<b>LCS Dup (B1G0815-BSD1)</b>					Prepared & Analyzed: 07/08/21				
Benzene	<b>18.4</b>	0.50	ug/L	20.0		91.8 75-125	6.35	30	
Ethylbenzene	<b>22.2</b>	0.50	ug/L	20.0		111 75-125	0.633	30	
Methyl-tert-Butyl Ether (MTBE)	<b>39.6</b>	2.0	ug/L	40.0		99.1 75-125	9.05	30	
Toluene	<b>21.0</b>	0.50	ug/L	20.0		105 75-125	4.07	30	
o-Xylene	<b>21.4</b>	0.50	ug/L	20.0		107 75-125	1.76	30	
m,p-Xylenes	<b>44.8</b>	1.0	ug/L	40.0		112 75-125	1.53	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	47.8		ug/L	50.0		95.7 70-140			
<i>Surrogate: Dibromofluoromethane</i>	45.5		ug/L	50.0		91.0 70-140			
<i>Surrogate: Toluene-d8</i>	47.6		ug/L	50.0		95.2 70-140			
<b>Duplicate (B1G0815-DUP1)</b>					Source: 1G07025-01 Prepared & Analyzed: 07/08/21				

**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:** A5334107  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control</b>										
<i>Batch B1G0815 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B1G0815-DUP1) Continued Source: 1G07025-01 Prepared &amp; Analyzed: 07/08/21</b>										
Benzene	3.13	0.50	ug/L		2.97			5.25	30	
Ethylbenzene	1.98	0.50	ug/L		1.86			6.25	30	
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L						30	
Toluene	2.09	0.50	ug/L		1.97			5.91	30	
o-Xylene	1.71	0.50	ug/L		1.60			6.65	30	
m,p-Xylenes	4.85	1.0	ug/L		4.68			3.57	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	45.4		ug/L	50.0		90.9	70-140			
<i>Surrogate: Dibromofluoromethane</i>	50.1		ug/L	50.0		100	70-140			
<i>Surrogate: Toluene-d8</i>	48.4		ug/L	50.0		96.8	70-140			
<b>Gasoline Range Organics in Vapor by GC/FID - Quality Control</b>										
<i>Batch B1G0902 - *** DEFAULT PREP ***</i>										
<b>Blank (B1G0902-BLK1) Prepared &amp; Analyzed: 07/09/21</b>										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	53.4		ug/L	50.0		107	70-130			
<b>LCS (B1G0902-BS1) Prepared &amp; Analyzed: 07/09/21</b>										
Gasoline Range Organics (GRO)	533	20	ug/L	500		107	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	59.3		ug/L	50.0		119	70-130			
<b>LCS Dup (B1G0902-BSD1) Prepared &amp; Analyzed: 07/09/21</b>										
Gasoline Range Organics (GRO)	577	20	ug/L	500		115	75-125	7.99	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	62.0		ug/L	50.0		124	70-130			
<b>Duplicate (B1G0902-DUP1) Source: 1G07026-02 Prepared &amp; Analyzed: 07/09/21</b>										
Gasoline Range Organics (GRO)	805	20	ug/L		832			3.32	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	55.4		ug/L	50.0		111	70-130			
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B1G0902 - *** DEFAULT PREP ***</i>										
<b>Blank (B1G0902-BLK1) Prepared &amp; Analyzed: 07/09/21</b>										
Total VOCs as Hexane	<4.9	4.9	ppmv							
<b>Duplicate (B1G0902-DUP1) Source: 1G07026-02 Prepared &amp; Analyzed: 07/09/21</b>										

**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:** A5334107  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>VOCs in Vapor as Hexane - Quality Control</b>										
<i>Batch B1G0902 - *** DEFAULT PREP ***</i>										
<b>Duplicate (B1G0902-DUP1) Continued Source: 1G07026-02 Prepared &amp; Analyzed: 07/09/21</b>										
Total VOCs as Hexane	146	4.9	ppmv		150			2.86	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:** A5334107  
**Date Received:** 07/07/21  
**Date Reported:** 07/14/21

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### Special Notes

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

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**Viorel Vasile**  
Operations Manager





**ENTHALPY**  
ANALYTICAL

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

enthalpy.com

Lab Job Number: 447789  
Report Level: II  
Report Date: 07/23/2021

**Analytical Report** *prepared for:*

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

Project: PERMIT #22453\_WW - WW

*Authorized for release by:*

Diane Galvan, Project Manager  
714-771-9928  
[diane.galvan@enthalpy.com](mailto: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, CDC ELITE  
Member



## Sample Summary

---

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

Lab Job #: 447789  
Project No: PERMIT #22453\_WW  
Location: WW  
Date Received: 07/09/21

---

<b>Sample ID</b>	<b>Lab ID</b>	<b>Collected</b>	<b>Matrix</b>
SURGE TANK_07-09-21	447789-001	07/09/21 09:20	Water

**CHAIN OF CUSTODY RECORD**  
 931 W. Barkley, Orange, CA 92668  
 Phone: (714) 771-8900 Fax: (714) 771-8933  
 Billing: Enthalpy Analytical  
 c/o Montrose Environmental Group Inc.  
 P.O. Box 741137, Los Angeles, CA 90074-1137

**ENTHALPY ANALYTICAL**  
 www.enthalpy.com

Lab Number: **WTF789**  
 Client ID: **15881**  
 Page: 1 of 1

Preservative: 1=Na2S2O3 2=HCl 3=HNO3 4=H2SO4 5=NaOH 6=Other  
 Matrix: A=Air DW=Drinking Water FL=Food Liquid FS=Food Solid  
 L=Liquid PP=Pure Product S=Solid SW=Swab W=Water WP=Wipe O=Other

\*\*\*Turn around time will start the following day for samples received at the Lab after 3pm\*\*\*

**CUSTOMER INFORMATION**

Company: **APEX**  
 Report To: **Imelda Morales**  
 Email: **imelda.morales@apexcos.com**  
 Address: **1962 Freeman Ave**

**PROJECT INFORMATION**

Name: **WW**  
 Number: **Permit #22453**  
 Address: **15306 Norwalk Blvd**  
 Norwalk, CA 90650

**Analysis**

Global ID: **Signal Hill, CA 90755**  
 P.O. #: **562-597-1055**  
 Fax: **562-597-1055**

Sampled By: **Kathy Ryan**

Matrix: **W** Container: **\*** Pres.: **\***

8015-TPHD (DRO) X X X  
 8015-TPHG (GRO) X X X  
 624-VOCS (PTB & m.p) X X X  
 Xylenes & Oxygenates

Enthalpy Quote No.: **APEX\_D12120**

\*TPHD - 1L amber, unpreserved  
 \*TPHG - 3x 40ml VOA vials w/HCl  
 \*VOCS - 3x 40ml VOA vials w/HCl

Sample ID	Date	Time	Temp.	pH	Time
1	Surge Tank_07-09-21	7-09-21	0920		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					

**Meter Readings**

1	Begin:	End:	2	Begin:	End:	3	Begin:	End:	4	Begin:	End:
Relinquished By:	<b>Kathleen Ryan</b>	Received By:	<b>Deena Srinivasan</b>	Relinquished By:	<b>Kathy Ryan</b>	Received By:	<b>Deena Srinivasan</b>	Relinquished By:	<b>Deena Srinivasan</b>	Received By:	<b>Deena Srinivasan</b>
Date:	<b>7-9-21</b>	Date:	<b>7-9-21</b>	Date:	<b>7-9-21</b>	Date:	<b>7-9-21</b>	Date:	<b>7-9-21</b>	Date:	<b>7-9-21</b>
Time:		Time:		Time:		Time:		Time:		Time:	

Print Name: **Kathy Ryan** Date: **7-9-21** Time: **12:17**

Print Name: **Deena Srinivasan** Date: **7-9-21** Time: **12:17**

Print Name: **Deena Srinivasan** Date: **7-9-21** Time: **12:17**

Print Name: **Deena Srinivasan** Date: **7-9-21** Time: **12:17**

25.5/7.4



# ENTHALPY ANALYTICAL

## SAMPLE ACCEPTANCE CHECKLIST

**Section 1**  
 Client: APEX Signal Hill Project: WW  
 Date Received: 07/09/21 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: 25.5 #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: 7.4 #2: \_\_\_\_\_ #3: \_\_\_\_\_ #4: \_\_\_\_\_

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

**Section 5** Explanations/Comments

\_\_\_\_\_

**Section 6**  
 For discrepancies, how was the Project Manager notified?  Verbal PM Initials: \_\_\_\_\_ Date/Time \_\_\_\_\_  
 Email (email sent to/on): \_\_\_\_\_ / \_\_\_\_\_  
 Project Manager's response:

\_\_\_\_\_

Completed By: *Deena Srinivasan* Date: *7/9/21*

## Analysis Results for 447789

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

Lab Job #: 447789  
 Project No: PERMIT #22453\_WW  
 Location: WW  
 Date Received: 07/09/21

<b>Sample ID: SURGE TANK_07-09-21</b>	<b>Lab ID: 447789-001</b>	<b>Collected: 07/09/21 09:20</b>
<b>Matrix: Water</b>		

447789-001 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	270270	07/10/21	07/10/21	LYZ
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	270270	07/10/21	07/10/21	LYZ
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	270270	07/10/21	07/10/21	LYZ
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	270270	07/10/21	07/10/21	LYZ
tert-Butyl Alcohol (TBA)	<b>21</b>		ug/L	10	1	270270	07/10/21	07/10/21	LYZ
m,p-Xylenes	ND		ug/L	10	1	270270	07/10/21	07/10/21	LYZ
o-Xylene	ND		ug/L	5.0	1	270270	07/10/21	07/10/21	LYZ
Benzene	<b>6.2</b>		ug/L	5.0	1	270270	07/10/21	07/10/21	LYZ
Toluene	ND		ug/L	5.0	1	270270	07/10/21	07/10/21	LYZ
Ethylbenzene	ND		ug/L	5.0	1	270270	07/10/21	07/10/21	LYZ
Xylene (total)	ND		ug/L	5.0	1	270270	07/10/21	07/10/21	LYZ
<b>Surrogates</b>			<b>Limits</b>						
Dibromofluoromethane	102%		%REC	70-140	1	270270	07/10/21	07/10/21	LYZ
1,2-Dichloroethane-d4	98%		%REC	70-140	1	270270	07/10/21	07/10/21	LYZ
Toluene-d8	98%		%REC	70-140	1	270270	07/10/21	07/10/21	LYZ
Bromofluorobenzene	101%		%REC	70-140	1	270270	07/10/21	07/10/21	LYZ
Method: EPA 8015B									
Prep Method: EPA 5030B									
TPH Gasoline	<b>250</b>		ug/L	50	1	270667	07/16/21	07/16/21	EMW
<b>Surrogates</b>			<b>Limits</b>						
Bromofluorobenzene (FID)	98%		%REC	60-140	1	270667	07/16/21	07/16/21	EMW
Method: EPA 8015B									
Prep Method: EPA 3510C									
Diesel C10-C28	<b>0.48</b>		mg/L	0.094	0.94	270393	07/13/21	07/15/21	MES
<b>Surrogates</b>			<b>Limits</b>						
n-Triacontane	77%		%REC	35-130	0.94	270393	07/13/21	07/15/21	MES

ND Not Detected

## Batch QC

<b>Type: Blank</b>	<b>Lab ID: QC933485</b>	<b>Batch: 270270</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC933485 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	07/10/21	07/10/21
Isopropyl Ether (DIPE)	ND		ug/L	5.0	07/10/21	07/10/21
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	07/10/21	07/10/21
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	07/10/21	07/10/21
tert-Butyl Alcohol (TBA)	ND		ug/L	10	07/10/21	07/10/21
m,p-Xylenes	ND		ug/L	10	07/10/21	07/10/21
o-Xylene	ND		ug/L	5.0	07/10/21	07/10/21
Benzene	ND		ug/L	5.0	07/10/21	07/10/21
Toluene	ND		ug/L	5.0	07/10/21	07/10/21
Ethylbenzene	ND		ug/L	5.0	07/10/21	07/10/21
Xylene (total)	ND		ug/L	5.0	07/10/21	07/10/21
Surrogates				Limits		
Dibromofluoromethane	98%		%REC	70-140	07/10/21	07/10/21
1,2-Dichloroethane-d4	97%		%REC	70-140	07/10/21	07/10/21
Toluene-d8	101%		%REC	70-140	07/10/21	07/10/21
Bromofluorobenzene	101%		%REC	70-140	07/10/21	07/10/21

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC933486</b>	<b>Batch: 270270</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC933486 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	49.13	50.00	ug/L	98%		70-130
1,1-Dichloroethene	53.66	50.00	ug/L	107%		70-135
Benzene	47.37	50.00	ug/L	95%		70-130
Trichloroethene	55.29	50.00	ug/L	111%		70-130
Toluene	52.64	50.00	ug/L	105%		70-130
Chlorobenzene	53.00	50.00	ug/L	106%		70-130
Surrogates						
Dibromofluoromethane	48.08	50.00	ug/L	96%		70-140
1,2-Dichloroethane-d4	45.74	50.00	ug/L	91%		70-140
Toluene-d8	51.90	50.00	ug/L	104%		70-140
Bromofluorobenzene	54.08	50.00	ug/L	108%		70-140

## Batch QC

<b>Type: Lab Control Sample Duplicate</b>	<b>Lab ID: QC933487</b>	<b>Batch: 270270</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC933487 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
MTBE	51.36	50.00	ug/L	103%		70-130	4	30
1,1-Dichloroethene	55.64	50.00	ug/L	111%		70-135	4	30
Benzene	49.88	50.00	ug/L	100%		70-130	5	30
Trichloroethene	54.93	50.00	ug/L	110%		70-130	1	30
Toluene	52.76	50.00	ug/L	106%		70-130	0	30
Chlorobenzene	53.49	50.00	ug/L	107%		70-130	1	30
<b>Surrogates</b>								
Dibromofluoromethane	50.13	50.00	ug/L	100%		70-140		
1,2-Dichloroethane-d4	48.83	50.00	ug/L	98%		70-140		
Toluene-d8	50.01	50.00	ug/L	100%		70-140		
Bromofluorobenzene	50.52	50.00	ug/L	101%		70-140		

<b>Type: Blank</b>	<b>Lab ID: QC933868</b>	<b>Batch: 270393</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 3510C</b>

QC933868 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Diesel C10-C28	ND		mg/L	0.10	07/13/21	07/13/21
<b>Surrogates</b>				<b>Limits</b>		
n-Triacontane	75%		%REC	35-130	07/13/21	07/13/21

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC933869</b>	<b>Batch: 270393</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 3510C</b>

QC933869 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	0.6219	1.000	mg/L	62%		42-120
<b>Surrogates</b>						
n-Triacontane	0.01567	0.02000	mg/L	78%		35-130

<b>Type: Lab Control Sample Duplicate</b>	<b>Lab ID: QC933870</b>	<b>Batch: 270393</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 3510C</b>

QC933870 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Diesel C10-C28	0.5527	1.000	mg/L	55%		42-120	12	36
<b>Surrogates</b>								
n-Triacontane	0.01593	0.02000	mg/L	80%		35-130		

## Batch QC

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC934577</b>	<b>Batch: 270667</b>
<b>Matrix: Drinking Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC934577 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
TPH Gasoline	573.4	500.0	ug/L	115%		70-130
<b>Surrogates</b>						
Bromofluorobenzene (FID)	198.0	200.0	ug/L	99%		60-140

<b>Type: Matrix Spike</b>	<b>Lab ID: QC934578</b>	<b>Batch: 270667</b>
<b>Matrix (Source ID): Drinking Water (447940-006)</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC934578 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
TPH Gasoline	564.2	ND	500.0	ug/L	113%		70-130	1
<b>Surrogates</b>								
Bromofluorobenzene (FID)	164.0		200.0	ug/L	82%		60-140	1

<b>Type: Matrix Spike Duplicate</b>	<b>Lab ID: QC934579</b>	<b>Batch: 270667</b>
<b>Matrix (Source ID): Drinking Water (447940-006)</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC934579 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
TPH Gasoline	571.9	ND	500.0	ug/L	114%		70-130	1	30	1
<b>Surrogates</b>										
Bromofluorobenzene (FID)	194.0		200.0	ug/L	97%		60-140			1

<b>Type: Blank</b>	<b>Lab ID: QC934580</b>	<b>Batch: 270667</b>
<b>Matrix: Drinking Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC934580 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
TPH Gasoline	ND		ug/L	50	07/16/21	07/16/21
<b>Surrogates</b>						
Bromofluorobenzene (FID)	94%		%REC	60-140	07/16/21	07/16/21

ND Not Detected



**ENTHALPY**  
ANALYTICAL

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

enthalpy.com

Lab Job Number: 449414  
Report Level: II  
Report Date: 09/01/2021

**Analytical Report** *prepared for:*

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

Project: PERMIT #22453\_WW - WW

*Authorized for release by:*

Diane Galvan, Project Manager  
714-771-9928  
[diane.galvan@enthalpy.com](mailto: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, CDC ELITE  
Member



## Sample Summary

---

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

Lab Job #: 449414  
Project No: PERMIT #22453\_WW  
Location: WW  
Dates Received: 08/18/21,08/24/21

---

Sample ID	Lab ID	Collected	Matrix
EFFLUENT_08-18-21	449414-001	08/18/21 11:12	Water
EFFLUENT_08-18-21	449414-002	08/18/21 11:27	Water
EFFLUENT_8-18-21	449414-003	08/24/21 14:00	Water

## Case Narrative

---

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

Lab Job Number: 449414  
Project No: PERMIT #22453\_WW  
Location: WW  
Dates Received: 08/18/21, 08/24/21

---

This data package contains sample and QC results for three water samples, requested for the above referenced project on 08/18/21. The samples were received cold and intact.

**Volatile Organics by GC/MS (EPA 624.1):**

High response was observed for bromomethane in the CCV analyzed 08/22/21 11:55; affected data was qualified with "b". High recovery was observed for bromomethane in the BS for batch 272653; the associated RPD was within limits, and the high recovery was not associated with any reported results. No other analytical problems were encountered.

**CHAIN OF CUSTODY RECORD**  
 931 W. Barkley, Orange, CA 92868  
 Phone: (714) 771-6900 Fax: (714) 771-9933  
 Billing: Enthality Analytical  
 c/o Noriose Environmental Group Inc.  
 P.O. Box 741137, Los Angeles, CA 90074-1137

**ENTHALPY ANALYTICAL**  
 www.enthalpy.com

Lab Number: 15881  
 Client ID: 15881  
 Page: 1 of 1

Preservative: 1=Na2S2O3 2=HCl 3=HNO3 4=H2SO4 5=NaOH 6=Other  
 Matrix: A=Air DW=Drinking Water FL=Food Liquid FS=Food Solid  
 L=Liquid PP=Pure Product S=Solid SW=Swab W=Water WP=Wipe O=Other

\*\*\*\*Turn around time will start the following day  
 for samples received at the Lab after 3pm\*\*\*\*

**CUSTOMER INFORMATION**

Company: **APEX**  
 Report To: Imelda Morales  
 Email: imorales@apex.com, imorales@noriose.com  
 Address: 1962 Freeman Ave  
 Signal Hill, CA 90755  
 Phone: 562-597-1055 Fax: [blank]

**PROJECT INFORMATION**

Name: **WW**  
 Number: **Permit #22463**  
 Address: **15306 Norwalk Blvd**  
 Norwalk, CA 90650

Sample ID	Date	Time	Matrix	Container	Pres.	Analysis										Test Instruction & Comments
						2540D TSS	5220-D COD	4500-S-D Soluble Sulfide	4500HB pH Field	82-VOCs (TEX plus MP-Xylenes & Oxy)	825 SVOCs	Enthalpy Quote No.:				
1 Effluent 08-18-21	8-18-21	1112	W	*	*	X	X	X	X	X	X	APEX_012120	TSS - 1L poly, unpreserved			
2 Effluent Comp 08-18-21	8-18-21	1127	W	*	*	X	X	X	X	X	X	APEX_012120	COD - 500ml poly w/H2SO4			
3													Soluble Sulfide - 1x 500ml poly w/ALCL+NAOH			
4													(only bottle A filled with ww) + 1x 500ml poly w/2MACH-NAOH (bottle B)			
5													After resuspension of ww in bottle A, clear liquid only needs to be poured into bottle B.			
6													VOCs - 3x 40ml VOA vials w/HCl			
7													pH - 250ml poly, unpreserved			
8													VOCs - 3x 40ml VOA vials w/HCl			
9													Please see attached list of additional VOC analytes requested.			
10																
11																
12																
13																
14																

**Meter Readings**

1) Begin:	Temp.	pH	Time	Received By:	Relinquished By:
End:				<i>Glenn Andrews</i>	
2) Begin:				Print Name: <b>Glenn Andrews</b>	Print Name:
End:				Date: <b>8-18-21</b>	Date: <b>8/18/21</b>
3) Begin:				Time: <b>1607</b>	Time: <b>1607</b>
End:				Received By:	Relinquished By:
4) Begin:				Print Name:	Print Name:
End:				Date:	Date:
				Time:	Time:

10-9/12.0



# ENTHALPY ANALYTICAL

## SAMPLE ACCEPTANCE CHECKLIST

**Section 1**  
 Client: Apex Companies \_\_\_\_\_ Project: WW - Effluent  
 Date Received: 8/18/21 \_\_\_\_\_ 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: 10.9 #2: \_\_\_\_\_ #3: \_\_\_\_\_ #4: \_\_\_\_\_

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

**Section 5 Explanations/Comments**  
 \_\_\_\_\_  
 \_\_\_\_\_

**Section 6**  
 For discrepancies, how was the Project Manager notified?  Verbal PM Initials: \_\_\_\_\_ Date/Time \_\_\_\_\_  
 Email (email sent to/on): \_\_\_\_\_ / \_\_\_\_\_  
 Project Manager's response:  
 \_\_\_\_\_

Completed By:  Date: 8/19/2021

DFSP Norwalk GWETS – LACSD Effluent Sampling: PERMIT #22453\_WW

Additional VOCs requested for 624-VOCs analysis

---

Methylene Chloride

---

Chloroform

---

1,1,1-Trichloroethane

---

Carbon Tetrachloride

---

1,1-Dichloroethene

---

Trichloroethylene

---

Tetrachloroethylene

---

Bromodichloromethane

---

Dibromochloromethane

---

Bromoform

---

Chlorobenzene

---

Vinyl Chloride

---

1,1-Dichloroethane

---

1,1,2-Trichloroethane

---

1,2-Dichloroethane

---

trans-1,2-Dichloroethylene

---

Bromomethane

---

Chloroethane

---

2-Chloroethylvinylether

---

Chloromethane

---

1,2-Dichloropropane

---

cis-1,3-Dichloropropene

---

trans-1,3-Dichloropropene

---

1,1,2,2-Tetrachloroethane

---





# ENTHALPY ANALYTICAL

## SAMPLE ACCEPTANCE CHECKLIST

**Section 1**  
 Client: Apex Project: DLA Norwalk  
 Date Received: 8/24/21 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: 25.4 #2: \_\_\_\_\_ #3: \_\_\_\_\_ #4: \_\_\_\_\_  
*(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)*  
 Shipping Information: \_\_\_\_\_

**Section 3**  
 Was the cooler packed with:  Ice  Ice Packs  Bubble Wrap  Styrofoam  
 Paper  None  Other \_\_\_\_\_  
 Cooler Temp (°C): #1: 4.5 #2: \_\_\_\_\_ #3: \_\_\_\_\_ #4: \_\_\_\_\_

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

**Section 5 Explanations/Comments**  
3-250ml amber containers

**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: 8/24/21

## Analysis Results for 449414

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

Lab Job #: 449414  
 Project No: PERMIT #22453\_WW  
 Location: WW  
 Dates Received: 08/18/21,08/24/21

**Sample ID: EFFLUENT\_08-18-21      Lab ID: 449414-001      Collected: 08/18/21 11:12**  
**Matrix: Water**

449414-001 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	272658	08/23/21	08/23/21	LXR
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	272658	08/23/21	08/23/21	LXR
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	272658	08/23/21	08/23/21	LXR
tert-Butyl Alcohol (TBA)	ND		ug/L	10	1	272658	08/23/21	08/23/21	LXR
m,p-Xylenes	ND		ug/L	10	1	272658	08/23/21	08/23/21	LXR
o-Xylene	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
Chloromethane	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
Vinyl Chloride	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
Bromomethane	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
Chloroethane	ND		ug/L	1.0	1	272658	08/23/21	08/23/21	LXR
1,1-Dichloroethene	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
Methylene Chloride	ND		ug/L	5.0	1	272653	08/22/21	08/22/21	LXR
trans-1,2-Dichloroethene	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
1,1-Dichloroethane	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
Chloroform	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
1,1,1-Trichloroethane	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
Carbon Tetrachloride	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
1,2-Dichloroethane	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
Benzene	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
Trichloroethene	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
1,2-Dichloropropane	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
Bromodichloromethane	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
cis-1,3-Dichloropropene	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
Toluene	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
trans-1,3-Dichloropropene	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
1,1,2-Trichloroethane	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
Tetrachloroethene	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
Dibromochloromethane	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
Chlorobenzene	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
1,1,1,2-Tetrachloroethane	ND		ug/L	0.5	1	272658	08/23/21	08/23/21	LXR
Ethylbenzene	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
Bromoform	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR
2-Chloroethylvinylether	ND		ug/L	2.5	1	272658	08/23/21	08/23/21	LXR
Xylene (total)	ND		ug/L	5.0	1	272658	08/23/21	08/23/21	LXR



### Analysis Results for 449414

449414-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
<b>Surrogates</b>			<b>Limits</b>						
Dibromofluoromethane	102%		%REC	70-140	1	272658	08/23/21	08/23/21	LXR
1,2-Dichloroethane-d4	101%		%REC	70-140	1	272658	08/23/21	08/23/21	LXR
Toluene-d8	97%		%REC	70-140	1	272658	08/23/21	08/23/21	LXR
Bromofluorobenzene	102%		%REC	70-140	1	272658	08/23/21	08/23/21	LXR
Method: SM 4500-H+ B									
pH	<b>6.67</b>	H	SU		1	272559	08/19/21 16:00	08/19/21 16:00	WWC
Temperature	<b>24.50</b>	H	deg C	1.00	1	272559	08/19/21 16:00	08/19/21 16:00	WWC
Method: SM 4500-S2-D Prep Method: METHOD									
Dissolved Sulfide	ND		mg/L	0.10	1	272736	08/22/21 17:00	08/22/21 17:00	ATP

**Sample ID: EFFLUENT\_08-18-21**      **Lab ID: 449414-002**      **Collected: 08/18/21 11:27**  
**Matrix: Water**

449414-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM2540D Prep Method: METHOD									
Total Suspended Solids	<b>21</b>		mg/L	0.6	1.1	272630	08/20/21	08/20/21	ATP
Method: SM5220D Prep Method: METHOD									
Chemical Oxygen Demand	<b>6.0</b>		mg/L	4.0	1	272590	08/20/21	08/20/21	ATP

## Analysis Results for 449414

**Sample ID: EFFLUENT\_8-18-21**
**Lab ID: 449414-003**
**Collected: 08/24/21 14:00**
**Matrix: Water**

449414-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 625.1									
Prep Method: EPA 3510C									
Benzoic acid	ND		ug/L	67	1.3	272701	08/25/21	08/25/21	DJL
Benzidine	ND		ug/L	67	1.3	272701	08/25/21	08/25/21	DJL
Benzyl alcohol	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
4-Chloroaniline	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Dibenzofuran	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
2-Methylphenol	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
2-Methylnaphthalene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
2-Nitroaniline	ND		ug/L	67	1.3	272701	08/25/21	08/25/21	DJL
3-Nitroaniline	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
4-Nitroaniline	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
2,4,5-Trichlorophenol	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
N-Nitrosodimethylamine	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Phenol	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
bis(2-Chloroethyl)ether	ND		ug/L	33	1.3	272701	08/25/21	08/25/21	DJL
2-Chlorophenol	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
1,3-Dichlorobenzene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
1,4-Dichlorobenzene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
1,2-Dichlorobenzene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
bis(2-Chloroisopropyl) ether	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
N-Nitroso-di-n-propylamine	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Hexachloroethane	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Nitrobenzene	ND		ug/L	33	1.3	272701	08/25/21	08/25/21	DJL
Isophorone	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
2-Nitrophenol	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
2,4-Dimethylphenol	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
bis(2-Chloroethoxy)methane	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
2,4-Dichlorophenol	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
1,2,4-Trichlorobenzene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Naphthalene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Hexachlorobutadiene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
4-Chloro-3-methylphenol	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Hexachlorocyclopentadiene	ND		ug/L	33	1.3	272701	08/25/21	08/25/21	DJL
2,4,6-Trichlorophenol	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
2-Chloronaphthalene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Dimethylphthalate	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Acenaphthylene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
2,6-Dinitrotoluene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Acenaphthene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
2,4-Dinitrophenol	ND		ug/L	67	1.3	272701	08/25/21	08/25/21	DJL
4-Nitrophenol	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL

## Analysis Results for 449414

449414-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
2,4-Dinitrotoluene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Diethylphthalate	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Fluorene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
4-Chlorophenyl-phenylether	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
4,6-Dinitro-2-methylphenol	ND		ug/L	67	1.3	272701	08/25/21	08/25/21	DJL
N-Nitrosodiphenylamine	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
1,2-diphenylhydrazine (as azobenzene)	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
4-Bromophenyl-phenylether	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Hexachlorobenzene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Pentachlorophenol	ND		ug/L	33	1.3	272701	08/25/21	08/25/21	DJL
Phenanthrene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Anthracene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Di-n-butylphthalate	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Fluoranthene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Pyrene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Butylbenzylphthalate	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
3,3'-Dichlorobenzidine	ND		ug/L	33	1.3	272701	08/25/21	08/25/21	DJL
Benzo(a)anthracene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Chrysene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
bis(2-Ethylhexyl)phthalate	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Di-n-octylphthalate	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Benzo(b)fluoranthene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Benzo(k)fluoranthene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Benzo(a)pyrene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Indeno(1,2,3-cd)pyrene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Dibenz(a,h)anthracene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
Benzo(g,h,i)perylene	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
3-,4-Methylphenol	ND		ug/L	13	1.3	272701	08/25/21	08/25/21	DJL
<b>Surrogates</b>				<b>Limits</b>					
2-Fluorophenol	54%		%REC	10-140	1.3	272701	08/25/21	08/25/21	DJL
Phenol-d6	40%		%REC	10-140	1.3	272701	08/25/21	08/25/21	DJL
2,4,6-Tribromophenol	86%		%REC	12-140	1.3	272701	08/25/21	08/25/21	DJL
Nitrobenzene-d5	81%		%REC	10-140	1.3	272701	08/25/21	08/25/21	DJL
2-Fluorobiphenyl	82%		%REC	11-140	1.3	272701	08/25/21	08/25/21	DJL
Terphenyl-d14	90%		%REC	20-140	1.3	272701	08/25/21	08/25/21	DJL

H Holding time was exceeded  
 ND Not Detected

## Batch QC

<b>Type: Sample Duplicate</b>	<b>Lab ID: QC939785</b>	<b>Batch: 272559</b>
<b>Matrix (Source ID): Water (449404-001)</b>	<b>Method: SM 4500-H+ B</b>	

QC939785 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
pH	7.110	7.080	SU		0	20	1
Temperature	23.10	23.20	deg C		0	20	1

<b>Type: Blank</b>	<b>Lab ID: QC939853</b>	<b>Batch: 272590</b>
<b>Matrix: Water</b>	<b>Method: SM5220D</b>	<b>Prep Method: METHOD</b>

QC939853 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Chemical Oxygen Demand	ND		mg/L	4.0	08/20/21	08/20/21

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC939854</b>	<b>Batch: 272590</b>
<b>Matrix: Water</b>	<b>Method: SM5220D</b>	<b>Prep Method: METHOD</b>

QC939854 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chemical Oxygen Demand	107.0	100.0	mg/L	107%		80-120

<b>Type: Matrix Spike</b>	<b>Lab ID: QC939855</b>	<b>Batch: 272590</b>
<b>Matrix (Source ID): Water (449177-001)</b>	<b>Method: SM5220D</b>	<b>Prep Method: METHOD</b>

QC939855 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Chemical Oxygen Demand	102.0	7.000	100.0	mg/L	95%		75-125	2

<b>Type: Matrix Spike Duplicate</b>	<b>Lab ID: QC939856</b>	<b>Batch: 272590</b>
<b>Matrix (Source ID): Water (449177-001)</b>	<b>Method: SM5220D</b>	<b>Prep Method: METHOD</b>

QC939856 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Chemical Oxygen Demand	110.0	7.000	100.0	mg/L	103%		75-125	8	20	2

<b>Type: Blank</b>	<b>Lab ID: QC939972</b>	<b>Batch: 272630</b>
<b>Matrix: Water</b>	<b>Method: SM2540D</b>	<b>Prep Method: METHOD</b>

QC939972 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Total Suspended Solids	ND		mg/L	0.5	08/20/21	08/20/21

## Batch QC

<b>Type: Sample Duplicate</b>	<b>Lab ID: QC939973</b>	<b>Batch: 272630</b>
<b>Matrix (Source ID): Water (449248-004)</b>	<b>Method: SM2540D</b>	<b>Prep Method: METHOD</b>

QC939973 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Suspended Solids	1,433	1433	mg/L		0	5	33

## Batch QC

<b>Type: Blank</b>	<b>Lab ID: QC940077</b>	<b>Batch: 272653</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC940077 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	08/22/21	08/22/21
Isopropyl Ether (DIPE)	ND		ug/L	5.0	08/22/21	08/22/21
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	08/22/21	08/22/21
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	08/22/21	08/22/21
tert-Butyl Alcohol (TBA)	ND		ug/L	10	08/22/21	08/22/21
m,p-Xylenes	ND		ug/L	10	08/22/21	08/22/21
o-Xylene	ND		ug/L	5.0	08/22/21	08/22/21
Chloromethane	ND		ug/L	5.0	08/22/21	08/22/21
Vinyl Chloride	ND		ug/L	5.0	08/22/21	08/22/21
Bromomethane	ND		ug/L	5.0	08/22/21	08/22/21
Chloroethane	ND		ug/L	1.0	08/22/21	08/22/21
1,1-Dichloroethene	ND		ug/L	5.0	08/22/21	08/22/21
Methylene Chloride	ND		ug/L	5.0	08/22/21	08/22/21
trans-1,2-Dichloroethene	ND		ug/L	5.0	08/22/21	08/22/21
1,1-Dichloroethane	ND		ug/L	5.0	08/22/21	08/22/21
Chloroform	ND		ug/L	5.0	08/22/21	08/22/21
1,1,1-Trichloroethane	ND		ug/L	5.0	08/22/21	08/22/21
Carbon Tetrachloride	ND		ug/L	5.0	08/22/21	08/22/21
1,2-Dichloroethane	ND		ug/L	5.0	08/22/21	08/22/21
Benzene	ND		ug/L	5.0	08/22/21	08/22/21
Trichloroethene	ND		ug/L	5.0	08/22/21	08/22/21
1,2-Dichloropropane	ND		ug/L	5.0	08/22/21	08/22/21
Bromodichloromethane	ND		ug/L	5.0	08/22/21	08/22/21
cis-1,3-Dichloropropene	ND		ug/L	5.0	08/22/21	08/22/21
Toluene	ND		ug/L	5.0	08/22/21	08/22/21
trans-1,3-Dichloropropene	ND		ug/L	5.0	08/22/21	08/22/21
1,1,2-Trichloroethane	ND		ug/L	5.0	08/22/21	08/22/21
Tetrachloroethene	ND		ug/L	5.0	08/22/21	08/22/21
Dibromochloromethane	ND		ug/L	5.0	08/22/21	08/22/21
Chlorobenzene	ND		ug/L	5.0	08/22/21	08/22/21
1,1,1,2-Tetrachloroethane	ND		ug/L	0.5	08/22/21	08/22/21
Ethylbenzene	ND		ug/L	5.0	08/22/21	08/22/21
Bromoform	ND		ug/L	5.0	08/22/21	08/22/21
2-Chloroethylvinylether	ND		ug/L	2.5	08/22/21	08/22/21
Xylene (total)	ND		ug/L	5.0	08/22/21	08/22/21
<b>Surrogates</b>				<b>Limits</b>		
Dibromofluoromethane	103%		%REC	70-140	08/22/21	08/22/21
1,2-Dichloroethane-d4	100%		%REC	70-140	08/22/21	08/22/21
Toluene-d8	98%		%REC	70-140	08/22/21	08/22/21
Bromofluorobenzene	100%		%REC	70-140	08/22/21	08/22/21

## Batch QC

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC940078</b>	<b>Batch: 272653</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC940078 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	48.75	50.00	ug/L	97%		70-130
Isopropyl Ether (DIPE)	52.21	50.00	ug/L	104%		70-130
Ethyl tert-Butyl Ether (ETBE)	50.75	50.00	ug/L	102%		70-130
Methyl tert-Amyl Ether (TAME)	49.87	50.00	ug/L	100%		70-130
tert-Butyl Alcohol (TBA)	237.9	250.0	ug/L	95%		51-130
m,p-Xylenes	106.3	100.0	ug/L	106%		70-130
o-Xylene	52.26	50.00	ug/L	105%		70-130
Chloromethane	51.93	50.00	ug/L	104%		65-130
Vinyl Chloride	55.95	50.00	ug/L	112%		70-130
Bromomethane	70.03	50.00	ug/L	140%	b,*	63-130
1,1-Dichloroethene	54.32	50.00	ug/L	109%		70-135
Methylene Chloride	49.84	50.00	ug/L	100%		69-130
trans-1,2-Dichloroethene	53.62	50.00	ug/L	107%		70-130
1,1-Dichloroethane	53.53	50.00	ug/L	107%		70-130
Chloroform	53.04	50.00	ug/L	106%		70-130
1,1,1-Trichloroethane	54.65	50.00	ug/L	109%		70-130
Carbon Tetrachloride	57.97	50.00	ug/L	116%		70-130
1,2-Dichloroethane	50.52	50.00	ug/L	101%		70-130
Benzene	51.19	50.00	ug/L	102%		70-130
Trichloroethene	54.21	50.00	ug/L	108%		70-130
1,2-Dichloropropane	50.00	50.00	ug/L	100%		70-130
Bromodichloromethane	52.37	50.00	ug/L	105%		70-130
cis-1,3-Dichloropropene	54.56	50.00	ug/L	109%		70-130
Toluene	50.39	50.00	ug/L	101%		70-130
trans-1,3-Dichloropropene	56.14	50.00	ug/L	112%		70-130
1,1,2-Trichloroethane	50.51	50.00	ug/L	101%		70-130
Tetrachloroethene	53.32	50.00	ug/L	107%		63-130
Dibromochloromethane	50.16	50.00	ug/L	100%		70-130
Chlorobenzene	52.17	50.00	ug/L	104%		70-130
Ethylbenzene	52.67	50.00	ug/L	105%		70-130
Bromoform	48.57	50.00	ug/L	97%		70-130
<b>Surrogates</b>						
Dibromofluoromethane	51.99	50.00	ug/L	104%		70-140
1,2-Dichloroethane-d4	49.52	50.00	ug/L	99%		70-140
Toluene-d8	49.01	50.00	ug/L	98%		70-140
Bromofluorobenzene	51.81	50.00	ug/L	104%		70-140

## Batch QC

<b>Type: Lab Control Sample Duplicate</b>	<b>Lab ID: QC940079</b>	<b>Batch: 272653</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC940079 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
MTBE	46.83	50.00	ug/L	94%		70-130	4	30
Isopropyl Ether (DIPE)	49.00	50.00	ug/L	98%		70-130	6	30
Ethyl tert-Butyl Ether (ETBE)	48.10	50.00	ug/L	96%		70-130	5	30
Methyl tert-Amyl Ether (TAME)	47.93	50.00	ug/L	96%		70-130	4	30
tert-Butyl Alcohol (TBA)	262.0	250.0	ug/L	105%		51-130	10	30
m,p-Xylenes	98.81	100.0	ug/L	99%		70-130	7	30
o-Xylene	48.53	50.00	ug/L	97%		70-130	7	30
Chloromethane	48.47	50.00	ug/L	97%		65-130	7	30
Vinyl Chloride	50.49	50.00	ug/L	101%		70-130	10	30
Bromomethane	58.94	50.00	ug/L	118%	b	63-130	17	30
1,1-Dichloroethene	49.54	50.00	ug/L	99%		70-135	9	30
Methylene Chloride	47.36	50.00	ug/L	95%		69-130	5	30
trans-1,2-Dichloroethene	49.30	50.00	ug/L	99%		70-130	8	30
1,1-Dichloroethane	49.71	50.00	ug/L	99%		70-130	7	30
Chloroform	49.81	50.00	ug/L	100%		70-130	6	30
1,1,1-Trichloroethane	51.52	50.00	ug/L	103%		70-130	6	30
Carbon Tetrachloride	52.91	50.00	ug/L	106%		70-130	9	30
1,2-Dichloroethane	49.01	50.00	ug/L	98%		70-130	3	30
Benzene	48.09	50.00	ug/L	96%		70-130	6	30
Trichloroethene	49.79	50.00	ug/L	100%		70-130	9	30
1,2-Dichloropropane	47.48	50.00	ug/L	95%		70-130	5	30
Bromodichloromethane	48.49	50.00	ug/L	97%		70-130	8	30
cis-1,3-Dichloropropene	50.94	50.00	ug/L	102%		70-130	7	30
Toluene	46.82	50.00	ug/L	94%		70-130	7	30
trans-1,3-Dichloropropene	53.29	50.00	ug/L	107%		70-130	5	30
1,1,2-Trichloroethane	47.75	50.00	ug/L	95%		70-130	6	30
Tetrachloroethene	48.59	50.00	ug/L	97%		63-130	9	30
Dibromochloromethane	47.71	50.00	ug/L	95%		70-130	5	30
Chlorobenzene	48.29	50.00	ug/L	97%		70-130	8	30
Ethylbenzene	49.06	50.00	ug/L	98%		70-130	7	30
Bromoform	46.41	50.00	ug/L	93%		70-130	5	30
<b>Surrogates</b>								
Dibromofluoromethane	50.80	50.00	ug/L	102%		70-140		
1,2-Dichloroethane-d4	47.49	50.00	ug/L	95%		70-140		
Toluene-d8	49.39	50.00	ug/L	99%		70-140		
Bromofluorobenzene	51.00	50.00	ug/L	102%		70-140		



## Batch QC

<b>Type: Blank</b>	<b>Lab ID: QC940102</b>	<b>Batch: 272658</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC940102 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	08/23/21	08/23/21
Isopropyl Ether (DIPE)	ND		ug/L	5.0	08/23/21	08/23/21
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	08/23/21	08/23/21
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	08/23/21	08/23/21
tert-Butyl Alcohol (TBA)	ND		ug/L	10	08/23/21	08/23/21
m,p-Xylenes	ND		ug/L	10	08/23/21	08/23/21
o-Xylene	ND		ug/L	5.0	08/23/21	08/23/21
Chloromethane	ND		ug/L	5.0	08/23/21	08/23/21
Vinyl Chloride	ND		ug/L	5.0	08/23/21	08/23/21
Bromomethane	ND		ug/L	5.0	08/23/21	08/23/21
Chloroethane	ND		ug/L	1.0	08/23/21	08/23/21
1,1-Dichloroethene	ND		ug/L	5.0	08/23/21	08/23/21
Methylene Chloride	ND		ug/L	5.0	08/23/21	08/23/21
trans-1,2-Dichloroethene	ND		ug/L	5.0	08/23/21	08/23/21
1,1-Dichloroethane	ND		ug/L	5.0	08/23/21	08/23/21
Chloroform	ND		ug/L	5.0	08/23/21	08/23/21
1,1,1-Trichloroethane	ND		ug/L	5.0	08/23/21	08/23/21
Carbon Tetrachloride	ND		ug/L	5.0	08/23/21	08/23/21
1,2-Dichloroethane	ND		ug/L	5.0	08/23/21	08/23/21
Benzene	ND		ug/L	5.0	08/23/21	08/23/21
Trichloroethene	ND		ug/L	5.0	08/23/21	08/23/21
1,2-Dichloropropane	ND		ug/L	5.0	08/23/21	08/23/21
Bromodichloromethane	ND		ug/L	5.0	08/23/21	08/23/21
cis-1,3-Dichloropropene	ND		ug/L	5.0	08/23/21	08/23/21
Toluene	ND		ug/L	5.0	08/23/21	08/23/21
trans-1,3-Dichloropropene	ND		ug/L	5.0	08/23/21	08/23/21
1,1,2-Trichloroethane	ND		ug/L	5.0	08/23/21	08/23/21
Tetrachloroethene	ND		ug/L	5.0	08/23/21	08/23/21
Dibromochloromethane	ND		ug/L	5.0	08/23/21	08/23/21
Chlorobenzene	ND		ug/L	5.0	08/23/21	08/23/21
1,1,1,2-Tetrachloroethane	ND		ug/L	0.5	08/23/21	08/23/21
Ethylbenzene	ND		ug/L	5.0	08/23/21	08/23/21
Bromoform	ND		ug/L	5.0	08/23/21	08/23/21
2-Chloroethylvinylether	ND		ug/L	2.5	08/23/21	08/23/21
Xylene (total)	ND		ug/L	5.0	08/23/21	08/23/21
<b>Surrogates</b>				<b>Limits</b>		
Dibromofluoromethane	100%		%REC	70-140	08/23/21	08/23/21
1,2-Dichloroethane-d4	99%		%REC	70-140	08/23/21	08/23/21
Toluene-d8	99%		%REC	70-140	08/23/21	08/23/21
Bromofluorobenzene	104%		%REC	70-140	08/23/21	08/23/21

## Batch QC

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC940103</b>	<b>Batch: 272658</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC940103 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	48.39	50.00	ug/L	97%		70-130
Isopropyl Ether (DIPE)	53.36	50.00	ug/L	107%		70-130
Ethyl tert-Butyl Ether (ETBE)	51.43	50.00	ug/L	103%		70-130
Methyl tert-Amyl Ether (TAME)	50.27	50.00	ug/L	101%		70-130
tert-Butyl Alcohol (TBA)	236.4	250.0	ug/L	95%		51-130
m,p-Xylenes	108.1	100.0	ug/L	108%		70-130
o-Xylene	53.20	50.00	ug/L	106%		70-130
Chloromethane	55.49	50.00	ug/L	111%		65-130
Vinyl Chloride	57.30	50.00	ug/L	115%		70-130
Bromomethane	64.87	50.00	ug/L	130%		63-130
1,1-Dichloroethene	55.12	50.00	ug/L	110%		70-135
Methylene Chloride	51.06	50.00	ug/L	102%		69-130
trans-1,2-Dichloroethene	55.17	50.00	ug/L	110%		70-130
1,1-Dichloroethane	54.71	50.00	ug/L	109%		70-130
Chloroform	54.52	50.00	ug/L	109%		70-130
1,1,1-Trichloroethane	57.14	50.00	ug/L	114%		70-130
Carbon Tetrachloride	59.71	50.00	ug/L	119%		70-130
1,2-Dichloroethane	50.93	50.00	ug/L	102%		70-130
Benzene	52.44	50.00	ug/L	105%		70-130
Trichloroethene	55.45	50.00	ug/L	111%		70-130
1,2-Dichloropropane	51.04	50.00	ug/L	102%		70-130
Bromodichloromethane	52.90	50.00	ug/L	106%		70-130
cis-1,3-Dichloropropene	55.58	50.00	ug/L	111%		70-130
Toluene	51.13	50.00	ug/L	102%		70-130
trans-1,3-Dichloropropene	56.42	50.00	ug/L	113%		70-130
1,1,2-Trichloroethane	49.29	50.00	ug/L	99%		70-130
Tetrachloroethene	54.69	50.00	ug/L	109%		63-130
Dibromochloromethane	49.95	50.00	ug/L	100%		70-130
Chlorobenzene	52.43	50.00	ug/L	105%		70-130
Ethylbenzene	53.65	50.00	ug/L	107%		70-130
Bromoform	47.66	50.00	ug/L	95%		70-130
<b>Surrogates</b>						
Dibromofluoromethane	52.51	50.00	ug/L	105%		70-140
1,2-Dichloroethane-d4	49.30	50.00	ug/L	99%		70-140
Toluene-d8	49.07	50.00	ug/L	98%		70-140
Bromofluorobenzene	51.69	50.00	ug/L	103%		70-140

## Batch QC

<b>Type: Lab Control Sample Duplicate</b>	<b>Lab ID: QC940104</b>	<b>Batch: 272658</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC940104 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
MTBE	48.57	50.00	ug/L	97%		70-130	0	30
Isopropyl Ether (DIPE)	51.48	50.00	ug/L	103%		70-130	4	30
Ethyl tert-Butyl Ether (ETBE)	50.62	50.00	ug/L	101%		70-130	2	30
Methyl tert-Amyl Ether (TAME)	49.56	50.00	ug/L	99%		70-130	1	30
tert-Butyl Alcohol (TBA)	219.5	250.0	ug/L	88%		51-130	7	30
m,p-Xylenes	101.2	100.0	ug/L	101%		70-130	7	30
o-Xylene	50.15	50.00	ug/L	100%		70-130	6	30
Chloromethane	51.94	50.00	ug/L	104%		65-130	7	30
Vinyl Chloride	53.82	50.00	ug/L	108%		70-130	6	30
Bromomethane	57.92	50.00	ug/L	116%		63-130	11	30
1,1-Dichloroethene	52.34	50.00	ug/L	105%		70-135	5	30
Methylene Chloride	49.86	50.00	ug/L	100%		69-130	2	30
trans-1,2-Dichloroethene	51.89	50.00	ug/L	104%		70-130	6	30
1,1-Dichloroethane	52.19	50.00	ug/L	104%		70-130	5	30
Chloroform	52.58	50.00	ug/L	105%		70-130	4	30
1,1,1-Trichloroethane	53.11	50.00	ug/L	106%		70-130	7	30
Carbon Tetrachloride	55.77	50.00	ug/L	112%		70-130	7	30
1,2-Dichloroethane	50.05	50.00	ug/L	100%		70-130	2	30
Benzene	50.17	50.00	ug/L	100%		70-130	4	30
Trichloroethene	51.96	50.00	ug/L	104%		70-130	7	30
1,2-Dichloropropane	48.43	50.00	ug/L	97%		70-130	5	30
Bromodichloromethane	50.07	50.00	ug/L	100%		70-130	6	30
cis-1,3-Dichloropropene	52.74	50.00	ug/L	105%		70-130	5	30
Toluene	47.85	50.00	ug/L	96%		70-130	7	30
trans-1,3-Dichloropropene	55.18	50.00	ug/L	110%		70-130	2	30
1,1,2-Trichloroethane	48.64	50.00	ug/L	97%		70-130	1	30
Tetrachloroethene	50.32	50.00	ug/L	101%		63-130	8	30
Dibromochloromethane	48.71	50.00	ug/L	97%		70-130	3	30
Chlorobenzene	49.99	50.00	ug/L	100%		70-130	5	30
Ethylbenzene	50.27	50.00	ug/L	101%		70-130	7	30
Bromoform	46.83	50.00	ug/L	94%		70-130	2	30
<b>Surrogates</b>								
Dibromofluoromethane	52.20	50.00	ug/L	104%		70-140		
1,2-Dichloroethane-d4	49.57	50.00	ug/L	99%		70-140		
Toluene-d8	48.22	50.00	ug/L	96%		70-140		
Bromofluorobenzene	51.04	50.00	ug/L	102%		70-140		

## Batch QC

<b>Type: Blank</b>	<b>Lab ID: QC940238</b>	<b>Batch: 272701</b>
<b>Matrix: Water</b>	<b>Method: EPA 625.1</b>	<b>Prep Method: EPA 3510C</b>

QC940238 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Benzoic acid	ND		ug/L	50	08/24/21	08/24/21
Benzidine	ND		ug/L	50	08/24/21	08/24/21
Benzyl alcohol	ND		ug/L	10	08/24/21	08/24/21
4-Chloroaniline	ND		ug/L	10	08/24/21	08/24/21
Dibenzofuran	ND		ug/L	10	08/24/21	08/24/21
2-Methylphenol	ND		ug/L	10	08/24/21	08/24/21
2-Methylnaphthalene	ND		ug/L	10	08/24/21	08/24/21
2-Nitroaniline	ND		ug/L	50	08/24/21	08/24/21
3-Nitroaniline	ND		ug/L	10	08/24/21	08/24/21
4-Nitroaniline	ND		ug/L	10	08/24/21	08/24/21
2,4,5-Trichlorophenol	ND		ug/L	10	08/24/21	08/24/21
N-Nitrosodimethylamine	ND		ug/L	10	08/24/21	08/24/21
Phenol	ND		ug/L	10	08/24/21	08/24/21
bis(2-Chloroethyl)ether	ND		ug/L	25	08/24/21	08/24/21
2-Chlorophenol	ND		ug/L	10	08/24/21	08/24/21
1,3-Dichlorobenzene	ND		ug/L	10	08/24/21	08/24/21
1,4-Dichlorobenzene	ND		ug/L	10	08/24/21	08/24/21
1,2-Dichlorobenzene	ND		ug/L	10	08/24/21	08/24/21
bis(2-Chloroisopropyl) ether	ND		ug/L	10	08/24/21	08/24/21
N-Nitroso-di-n-propylamine	ND		ug/L	10	08/24/21	08/24/21
Hexachloroethane	ND		ug/L	10	08/24/21	08/24/21
Nitrobenzene	ND		ug/L	25	08/24/21	08/24/21
Isophorone	ND		ug/L	10	08/24/21	08/24/21
2-Nitrophenol	ND		ug/L	10	08/24/21	08/24/21
2,4-Dimethylphenol	ND		ug/L	10	08/24/21	08/24/21
bis(2-Chloroethoxy)methane	ND		ug/L	10	08/24/21	08/24/21
2,4-Dichlorophenol	ND		ug/L	10	08/24/21	08/24/21
1,2,4-Trichlorobenzene	ND		ug/L	10	08/24/21	08/24/21
Naphthalene	ND		ug/L	10	08/24/21	08/24/21
Hexachlorobutadiene	ND		ug/L	10	08/24/21	08/24/21
4-Chloro-3-methylphenol	ND		ug/L	10	08/24/21	08/24/21
Hexachlorocyclopentadiene	ND		ug/L	25	08/24/21	08/24/21
2,4,6-Trichlorophenol	ND		ug/L	10	08/24/21	08/24/21
2-Chloronaphthalene	ND		ug/L	10	08/24/21	08/24/21
Dimethylphthalate	ND		ug/L	10	08/24/21	08/24/21
Acenaphthylene	ND		ug/L	10	08/24/21	08/24/21
2,6-Dinitrotoluene	ND		ug/L	10	08/24/21	08/24/21
Acenaphthene	ND		ug/L	10	08/24/21	08/24/21
2,4-Dinitrophenol	ND		ug/L	50	08/24/21	08/24/21
4-Nitrophenol	ND		ug/L	10	08/24/21	08/24/21
2,4-Dinitrotoluene	ND		ug/L	10	08/24/21	08/24/21
Diethylphthalate	ND		ug/L	10	08/24/21	08/24/21

### Batch QC

QC940238 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Fluorene	ND		ug/L	10	08/24/21	08/24/21
4-Chlorophenyl-phenylether	ND		ug/L	10	08/24/21	08/24/21
4,6-Dinitro-2-methylphenol	ND		ug/L	50	08/24/21	08/24/21
N-Nitrosodiphenylamine	ND		ug/L	10	08/24/21	08/24/21
1,2-diphenylhydrazine (as azobenzene)	ND		ug/L	10	08/24/21	08/24/21
4-Bromophenyl-phenylether	ND		ug/L	10	08/24/21	08/24/21
Hexachlorobenzene	ND		ug/L	10	08/24/21	08/24/21
Pentachlorophenol	ND		ug/L	25	08/24/21	08/24/21
Phenanthrene	ND		ug/L	10	08/24/21	08/24/21
Anthracene	ND		ug/L	10	08/24/21	08/24/21
Di-n-butylphthalate	ND		ug/L	10	08/24/21	08/24/21
Fluoranthene	ND		ug/L	10	08/24/21	08/24/21
Pyrene	ND		ug/L	10	08/24/21	08/24/21
Butylbenzylphthalate	ND		ug/L	10	08/24/21	08/24/21
3,3'-Dichlorobenzidine	ND		ug/L	25	08/24/21	08/24/21
Benzo(a)anthracene	ND		ug/L	10	08/24/21	08/24/21
Chrysene	ND		ug/L	10	08/24/21	08/24/21
bis(2-Ethylhexyl)phthalate	ND		ug/L	10	08/24/21	08/24/21
Di-n-octylphthalate	ND		ug/L	10	08/24/21	08/24/21
Benzo(b)fluoranthene	ND		ug/L	10	08/24/21	08/24/21
Benzo(k)fluoranthene	ND		ug/L	10	08/24/21	08/24/21
Benzo(a)pyrene	ND		ug/L	10	08/24/21	08/24/21
Indeno(1,2,3-cd)pyrene	ND		ug/L	10	08/24/21	08/24/21
Dibenz(a,h)anthracene	ND		ug/L	10	08/24/21	08/24/21
Benzo(g,h,i)perylene	ND		ug/L	10	08/24/21	08/24/21
3-,4-Methylphenol	ND		ug/L	10	08/24/21	08/24/21
<b>Surrogates</b>				<b>Limits</b>		
2-Fluorophenol	44%		%REC	20-140	08/24/21	08/24/21
Phenol-d6	31%		%REC	20-140	08/24/21	08/24/21
2,4,6-Tribromophenol	72%		%REC	20-140	08/24/21	08/24/21
Nitrobenzene-d5	65%		%REC	20-140	08/24/21	08/24/21
2-Fluorobiphenyl	60%		%REC	20-140	08/24/21	08/24/21
Terphenyl-d14	76%		%REC	20-140	08/24/21	08/24/21

## Batch QC

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC940239</b>	<b>Batch: 272701</b>
<b>Matrix: Water</b>	<b>Method: EPA 625.1</b>	<b>Prep Method: EPA 3510C</b>

QC940239 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
2,4,5-Trichlorophenol	30.61	40.00	ug/L	77%		38-120
Phenol	13.68	40.00	ug/L	34%		13-120
2-Chlorophenol	26.54	40.00	ug/L	66%		31-120
1,4-Dichlorobenzene	23.41	40.00	ug/L	59%		24-120
N-Nitroso-di-n-propylamine	26.86	40.00	ug/L	67%		32-120
2,4-Dimethylphenol	25.39	40.00	ug/L	63%		25-120
1,2,4-Trichlorobenzene	23.91	40.00	ug/L	60%		26-120
4-Chloro-3-methylphenol	29.17	40.00	ug/L	73%		39-120
Acenaphthene	28.90	40.00	ug/L	72%		33-120
4-Nitrophenol	15.40	40.00	ug/L	38%		12-120
2,4-Dinitrotoluene	34.56	40.00	ug/L	86%		46-120
Pentachlorophenol	23.81	40.00	ug/L	60%		37-120
Pyrene	30.88	40.00	ug/L	77%		47-120
Chrysene	31.79	40.00	ug/L	79%		48-120
Benzo(b)fluoranthene	32.59	40.00	ug/L	81%		46-120
<b>Surrogates</b>						
2-Fluorophenol	18.70	40.00	ug/L	47%		20-140
Phenol-d6	12.54	40.00	ug/L	31%		20-140
2,4,6-Tribromophenol	31.74	40.00	ug/L	79%		20-140
Nitrobenzene-d5	27.01	40.00	ug/L	68%		20-140
2-Fluorobiphenyl	27.33	40.00	ug/L	68%		20-140
Terphenyl-d14	31.52	40.00	ug/L	79%		20-140

## Batch QC

<b>Type: Lab Control Sample Duplicate</b>	<b>Lab ID: QC940240</b>	<b>Batch: 272701</b>
<b>Matrix: Water</b>	<b>Method: EPA 625.1</b>	<b>Prep Method: EPA 3510C</b>

QC940240 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
2,4,5-Trichlorophenol	28.45	40.00	ug/L	71%		38-120	7	59
Phenol	12.69	40.00	ug/L	32%		13-120	7	62
2-Chlorophenol	26.56	40.00	ug/L	66%		31-120	0	62
1,4-Dichlorobenzene	22.92	40.00	ug/L	57%		24-120	2	64
N-Nitroso-di-n-propylamine	26.91	40.00	ug/L	67%		32-120	0	65
2,4-Dimethylphenol	26.28	40.00	ug/L	66%		25-120	3	64
1,2,4-Trichlorobenzene	23.53	40.00	ug/L	59%		26-120	2	63
4-Chloro-3-methylphenol	29.81	40.00	ug/L	75%		39-120	2	58
Acenaphthene	27.86	40.00	ug/L	70%		33-120	4	52
4-Nitrophenol	14.60	40.00	ug/L	36%		12-120	5	63
2,4-Dinitrotoluene	35.62	40.00	ug/L	89%		46-120	3	41
Pentachlorophenol	23.03	40.00	ug/L	58%		37-120	3	42
Pyrene	30.94	40.00	ug/L	77%		47-120	0	43
Chrysene	31.94	40.00	ug/L	80%		48-120	0	46
Benzo(b)fluoranthene	33.09	40.00	ug/L	83%		46-120	2	47
<b>Surrogates</b>								
2-Fluorophenol	17.89	40.00	ug/L	45%		20-140		
Phenol-d6	13.01	40.00	ug/L	33%		20-140		
2,4,6-Tribromophenol	31.54	40.00	ug/L	79%		20-140		
Nitrobenzene-d5	27.19	40.00	ug/L	68%		20-140		
2-Fluorobiphenyl	25.34	40.00	ug/L	63%		20-140		
Terphenyl-d14	31.66	40.00	ug/L	79%		20-140		

<b>Type: Blank</b>	<b>Lab ID: QC940329</b>	<b>Batch: 272736</b>
<b>Matrix: Water</b>	<b>Method: SM 4500-S2-D</b>	<b>Prep Method: METHOD</b>

QC940329 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Dissolved Sulfide	ND		mg/L	0.10	08/22/21 17:00	08/22/21 17:00

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC940330</b>	<b>Batch: 272736</b>
<b>Matrix: Water</b>	<b>Method: SM 4500-S2-D</b>	<b>Prep Method: METHOD</b>

QC940330 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Dissolved Sulfide	1.000	1.000	mg/L	100%		80-120

## Batch QC

<b>Type: Matrix Spike</b>	<b>Lab ID: QC940331</b>	<b>Batch: 272736</b>
<b>Matrix (Source ID): Water (449461-002)</b>	<b>Method: SM 4500-S2-D</b>	<b>Prep Method: METHOD</b>

QC940331 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Dissolved Sulfide	1.000	ND	1.000	mg/L	100%		80-120	1

<b>Type: Matrix Spike Duplicate</b>	<b>Lab ID: QC940332</b>	<b>Batch: 272736</b>
<b>Matrix (Source ID): Water (449461-002)</b>	<b>Method: SM 4500-S2-D</b>	<b>Prep Method: METHOD</b>

QC940332 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	Lim	DF
Dissolved Sulfide	1.000	ND	1.000	mg/L	100%		80-120	0	20	1

\* Value is outside QC limits

ND Not Detected

b See narrative





**ENTHALPY**  
ANALYTICAL

Enthalpy Analytical  
931 West Barkley Ave  
Orange, CA 92868  
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enthalpy.com

Lab Job Number: 449415  
Report Level: II  
Report Date: 09/01/2021

**Analytical Report** *prepared for:*

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

Project: PERMIT #22453\_WW - WW

*Authorized for release by:*

Diane Galvan, Project Manager  
714-771-9928  
[diane.galvan@enthalpy.com](mailto:diane.galvan@enthalpy.com)

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

## Sample Summary

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Imedia Morales	Lab Job #:	449415
APEX - Signal Hill	Project No:	PERMIT #22453_WW
1962 Freeman Avenue	Location:	WW
Signal Hill, CA 90755	Date Received:	08/18/21

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<b>Sample ID</b>	<b>Lab ID</b>	<b>Collected</b>	<b>Matrix</b>
SURGE TANK_08-18-21	449415-001	08/18/21 11:18	Water

**CHAIN OF CUSTODY RECORD**  
 931 W. Bartley, Orange, CA 92668  
 Phone: (714) 771-6900 Fax: (714) 771-9933  
 Billing: Enthality Analytical  
 c/o Microse Environmental Group Inc.  
 P.O. Box 241137, Los Angeles, CA 90074-1137  
 www.enthalpy.com

**ENTHALPY ANALYTICAL**  
 Lab Number: 15881  
 Client ID: 15881  
 Page: 1 of 1

Preservatives: 1=Na2S2O3 2=HCl 3=HNO3 4=H2SO4 5=NaOH 6=Other  
 Matrix: A=Air DW=Drinking Water FL=Food Liquid FS=Food Solid  
 L=Liquid PP=Pure Product S=Solid SW=Swab W=Water WP=Wipe O=Other

Turn Around Time  
 Standard X  
 72 Hours  
 48 Hours  
 24 Hours  
 Same Day

\*\*\*\*Turn around time will start the following day  
 for samples received at the Lab after 3pm\*\*\*\*

**CUSTOMER INFORMATION**  
 Company: **APEX**  
 Report To: Imelda Morales  
 Email: imelda.morales@apexco.com  
 Address: 1962 Freeman Ave  
 Signal Hill, CA 90765  
 Phone: 562-597-1055 Fax: \_\_\_\_\_  
 Billing: imelda.morales@apexco.com  
 Email: imelda.morales@apexco.com  
 Address: 15306 Norwalk Blvd  
 Norwalk, CA 90650

**PROJECT INFORMATION**  
 Name: WW  
 Number: Permit #22453  
 Address: 15306 Norwalk Blvd  
 Norwalk, CA 90650

Sample ID	Date	Time	Matrix	Container	Pres.	Sampled By:		Global ID:	P.O. #:	Xylenes & Oxygenates	B2-VOCs (GT& & m-p)	8015-TPHG (GRO)	8015-TPHD (DRO)	X	X	X	X	X	X	Enthalpy Quote No.: APEX_012120	*TPHD - 1L amber, unpreserved	*TPHG - 3x 40ml VOA vials w/HCl	*VOCs - 3x 40ml VOA vials w/HCl	Test Instruction & Comments			
						Matrix	Time																				
1	Surge Tank_08-18-21	8:18-21	W	*	*																						
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											
13																											
14																											

**Meter Readings**

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

Relinquished By: Allen Anderson 1 Received By: Glenn Anderson 2  
 Print Name: Allen Anderson Print Name: Glenn Anderson  
 Date: 8-18-21 Date: 8/19/21  
 Time: 1607 Time: 1607  
 Relinquished By: \_\_\_\_\_ 3 Received By: \_\_\_\_\_ 4  
 Print Name: \_\_\_\_\_ Print Name: \_\_\_\_\_  
 Date: \_\_\_\_\_ Date: \_\_\_\_\_  
 Time: \_\_\_\_\_ Time: \_\_\_\_\_

Authorized By: 109 / 12.0



# ENTHALPY ANALYTICAL

## SAMPLE ACCEPTANCE CHECKLIST

**Section 1**  
 Client: Apex Companies Project: WW  
 Date Received: 8/18/21 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: 10.9 #2: \_\_\_\_\_ #3: \_\_\_\_\_ #4: \_\_\_\_\_

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

**Section 5 Explanations/Comments**  
 \_\_\_\_\_  
 \_\_\_\_\_

**Section 6**  
 For discrepancies, how was the Project Manager notified?  Verbal PM Initials: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Email (email sent to/on): \_\_\_\_\_ / \_\_\_\_\_  
 Project Manager's response:  
 \_\_\_\_\_

Completed By:  Date: 8/18/21

## Analysis Results for 449415

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

 Lab Job #: 449415  
 Project No: PERMIT #22453\_WW  
 Location: WW  
 Date Received: 08/18/21

<b>Sample ID: SURGE TANK_08-18-21</b>	<b>Lab ID: 449415-001</b>	<b>Collected: 08/18/21 11:18</b>
<b>Matrix: Water</b>		

449415-001 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	272653	08/22/21	08/22/21	TCN
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	272653	08/22/21	08/22/21	TCN
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	272653	08/22/21	08/22/21	TCN
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	272653	08/22/21	08/22/21	TCN
tert-Butyl Alcohol (TBA)	<b>26</b>		ug/L	10	1	272653	08/22/21	08/22/21	TCN
m,p-Xylenes	ND		ug/L	10	1	272653	08/22/21	08/22/21	TCN
o-Xylene	ND		ug/L	5.0	1	272653	08/22/21	08/22/21	TCN
Benzene	ND		ug/L	5.0	1	272653	08/22/21	08/22/21	TCN
Toluene	ND		ug/L	5.0	1	272653	08/22/21	08/22/21	TCN
Ethylbenzene	ND		ug/L	5.0	1	272653	08/22/21	08/22/21	TCN
Xylene (total)	ND		ug/L	5.0	1	272653	08/22/21	08/22/21	TCN
<b>Surrogates</b>			<b>Limits</b>						
Dibromofluoromethane	99%		%REC	70-140	1	272653	08/22/21	08/22/21	TCN
1,2-Dichloroethane-d4	99%		%REC	70-140	1	272653	08/22/21	08/22/21	TCN
Toluene-d8	99%		%REC	70-140	1	272653	08/22/21	08/22/21	TCN
Bromofluorobenzene	99%		%REC	70-140	1	272653	08/22/21	08/22/21	TCN
Method: EPA 8015B									
Prep Method: EPA 5030B									
TPH Gasoline	<b>110</b>		ug/L	50	1	272664	08/23/21	08/23/21	EMW
<b>Surrogates</b>			<b>Limits</b>						
Bromofluorobenzene (FID)	99%		%REC	60-140	1	272664	08/23/21	08/23/21	EMW
Method: EPA 8015B									
Prep Method: EPA 3510C									
Diesel C10-C28	<b>0.50</b>		mg/L	0.094	0.94	272596	08/20/21	08/20/21	MES
<b>Surrogates</b>			<b>Limits</b>						
n-Triacontane	73%		%REC	35-130	0.94	272596	08/20/21	08/20/21	MES

ND Not Detected

## Batch QC

<b>Type: Blank</b>	<b>Lab ID: QC939861</b>	<b>Batch: 272596</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 3510C</b>

QC939861 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Diesel C10-C28	ND		mg/L	0.10	08/20/21	08/20/21
<b>Surrogates</b>				<b>Limits</b>		
n-Triacontane	76%		%REC	35-130	08/20/21	08/20/21

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC939862</b>	<b>Batch: 272596</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 3510C</b>

QC939862 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	0.7390	1.000	mg/L	74%		42-120
<b>Surrogates</b>						
n-Triacontane	0.01737	0.02000	mg/L	87%		35-130

<b>Type: Lab Control Sample Duplicate</b>	<b>Lab ID: QC939863</b>	<b>Batch: 272596</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 3510C</b>

QC939863 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Diesel C10-C28	0.6170	1.000	mg/L	62%		42-120	18	36
<b>Surrogates</b>								
n-Triacontane	0.01300	0.02000	mg/L	65%		35-130		

<b>Type: Blank</b>	<b>Lab ID: QC940077</b>	<b>Batch: 272653</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC940077 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	08/22/21	08/22/21
Isopropyl Ether (DIPE)	ND		ug/L	5.0	08/22/21	08/22/21
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	08/22/21	08/22/21
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	08/22/21	08/22/21
tert-Butyl Alcohol (TBA)	ND		ug/L	10	08/22/21	08/22/21
m,p-Xylenes	ND		ug/L	10	08/22/21	08/22/21
o-Xylene	ND		ug/L	5.0	08/22/21	08/22/21
Benzene	ND		ug/L	5.0	08/22/21	08/22/21
Toluene	ND		ug/L	5.0	08/22/21	08/22/21
Ethylbenzene	ND		ug/L	5.0	08/22/21	08/22/21
Xylene (total)	ND		ug/L	5.0	08/22/21	08/22/21
<b>Surrogates</b>				<b>Limits</b>		
Dibromofluoromethane	103%		%REC	70-140	08/22/21	08/22/21
1,2-Dichloroethane-d4	100%		%REC	70-140	08/22/21	08/22/21
Toluene-d8	98%		%REC	70-140	08/22/21	08/22/21
Bromofluorobenzene	100%		%REC	70-140	08/22/21	08/22/21

## Batch QC

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC940078</b>	<b>Batch: 272653</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC940078 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	48.75	50.00	ug/L	97%		70-130
Isopropyl Ether (DIPE)	52.21	50.00	ug/L	104%		70-130
Ethyl tert-Butyl Ether (ETBE)	50.75	50.00	ug/L	102%		70-130
Methyl tert-Amyl Ether (TAME)	49.87	50.00	ug/L	100%		70-130
tert-Butyl Alcohol (TBA)	237.9	250.0	ug/L	95%		51-130
m,p-Xylenes	106.3	100.0	ug/L	106%		70-130
o-Xylene	52.26	50.00	ug/L	105%		70-130
Benzene	51.19	50.00	ug/L	102%		70-130
Toluene	50.39	50.00	ug/L	101%		70-130
Ethylbenzene	52.67	50.00	ug/L	105%		70-130
<b>Surrogates</b>						
Dibromofluoromethane	51.99	50.00	ug/L	104%		70-140
1,2-Dichloroethane-d4	49.52	50.00	ug/L	99%		70-140
Toluene-d8	49.01	50.00	ug/L	98%		70-140
Bromofluorobenzene	51.81	50.00	ug/L	104%		70-140

<b>Type: Lab Control Sample Duplicate</b>	<b>Lab ID: QC940079</b>	<b>Batch: 272653</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC940079 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
MTBE	46.83	50.00	ug/L	94%		70-130	4	30
Isopropyl Ether (DIPE)	49.00	50.00	ug/L	98%		70-130	6	30
Ethyl tert-Butyl Ether (ETBE)	48.10	50.00	ug/L	96%		70-130	5	30
Methyl tert-Amyl Ether (TAME)	47.93	50.00	ug/L	96%		70-130	4	30
tert-Butyl Alcohol (TBA)	262.0	250.0	ug/L	105%		51-130	10	30
m,p-Xylenes	98.81	100.0	ug/L	99%		70-130	7	30
o-Xylene	48.53	50.00	ug/L	97%		70-130	7	30
Benzene	48.09	50.00	ug/L	96%		70-130	6	30
Toluene	46.82	50.00	ug/L	94%		70-130	7	30
Ethylbenzene	49.06	50.00	ug/L	98%		70-130	7	30
<b>Surrogates</b>								
Dibromofluoromethane	50.80	50.00	ug/L	102%		70-140		
1,2-Dichloroethane-d4	47.49	50.00	ug/L	95%		70-140		
Toluene-d8	49.39	50.00	ug/L	99%		70-140		
Bromofluorobenzene	51.00	50.00	ug/L	102%		70-140		

## Batch QC

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC940125</b>	<b>Batch: 272664</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC940125 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
TPH Gasoline	513.4	500.0	ug/L	103%		70-130
<b>Surrogates</b>						
Bromofluorobenzene (FID)	182.5	200.0	ug/L	91%		60-140

<b>Type: Matrix Spike</b>	<b>Lab ID: QC940126</b>	<b>Batch: 272664</b>
<b>Matrix (Source ID): Water (449438-001)</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC940126 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
TPH Gasoline	497.5	ND	500.0	ug/L	100%		70-130	1
<b>Surrogates</b>								
Bromofluorobenzene (FID)	183.1		200.0	ug/L	92%		60-140	1

<b>Type: Matrix Spike Duplicate</b>	<b>Lab ID: QC940127</b>	<b>Batch: 272664</b>
<b>Matrix (Source ID): Water (449438-001)</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC940127 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
TPH Gasoline	481.0	ND	500.0	ug/L	96%		70-130	3	30	1
<b>Surrogates</b>										
Bromofluorobenzene (FID)	165.2		200.0	ug/L	83%		60-140			1

<b>Type: Blank</b>	<b>Lab ID: QC940128</b>	<b>Batch: 272664</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC940128 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
TPH Gasoline	ND		ug/L	50	08/23/21	08/23/21
<b>Surrogates</b>						
Bromofluorobenzene (FID)	86%		%REC	60-140	08/23/21	08/23/21

ND Not Detected





**ENTHALPY**  
ANALYTICAL

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

enthalpy.com

Lab Job Number: 451123  
Report Level: II  
Report Date: 10/18/2021

**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](mailto: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, CDC ELITE  
Member

## Sample Summary

---

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

Lab Job #: 451123  
Project No: PERMIT #22453\_WW  
Location: WW  
Date Received: 09/27/21

---

<b>Sample ID</b>	<b>Lab ID</b>	<b>Collected</b>	<b>Matrix</b>
SURGE TANK_09-27-21	451123-001	09/27/21 09:10	Water

## Case Narrative

---

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

Lab Job Number: 451123  
Project No: PERMIT #22453\_WW  
Location: WW  
Date Received: 09/27/21

---

This data package contains sample and QC results for one water sample, requested for the above referenced project on 09/27/21. The sample was received cold and intact.

**TPH-Extractables by GC (EPA 8015B):**

Diesel C10-C28 was detected above the RL in the method blank for batch 274874. No other analytical problems were encountered.

**Volatile Organics by GC/MS (EPA 624.1):**

SURGE TANK\_01-28-21 (lab # 451123-001) had pH greater than 2. No other analytical problems were encountered.





# ENTHALPY ANALYTICAL

## SAMPLE ACCEPTANCE CHECKLIST

**Section 1**  
 Client: APEX Project: WW  
 Date Received: 9/27/21 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: 7.2 #2: \_\_\_\_\_ #3: \_\_\_\_\_ #4: \_\_\_\_\_  
*(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)*  
 Shipping Information: \_\_\_\_\_

**Section 3**  
 Was the cooler packed with:  Ice  Ice Packs  Bubble Wrap  Styrofoam  
 Paper  None  Other \_\_\_\_\_  
 Cooler Temp (°C): #1: 2.6 #2: \_\_\_\_\_ #3: \_\_\_\_\_ #4: \_\_\_\_\_

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

**Section 5 Explanations/Comments**  
 \_\_\_\_\_  
 \_\_\_\_\_

**Section 6**  
 For discrepancies, how was the Project Manager notified?  Verbal PM Initials: \_\_\_\_\_ Date/Time \_\_\_\_\_  
 Email (email sent to/on): \_\_\_\_\_ / \_\_\_\_\_  
 Project Manager's response:  
 \_\_\_\_\_

Completed By:         *[Signature]*         Date:         9/27/21

## Analysis Results for 451123

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

Lab Job #: 451123  
 Project No: PERMIT #22453\_WW  
 Location: WW  
 Date Received: 09/27/21

<b>Sample ID: SURGE TANK_09-27-21</b>	<b>Lab ID: 451123-001</b>	<b>Collected: 09/27/21 09:10</b>
<b>Matrix: Water</b>		

451123-001 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	275244	10/06/21	10/06/21	TCN
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	275244	10/06/21	10/06/21	TCN
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	275244	10/06/21	10/06/21	TCN
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	275244	10/06/21	10/06/21	TCN
tert-Butyl Alcohol (TBA)	<b>33</b>		ug/L	10	1	275244	10/06/21	10/06/21	TCN
m,p-Xylenes	ND		ug/L	10	1	275244	10/06/21	10/06/21	TCN
o-Xylene	ND		ug/L	5.0	1	275244	10/06/21	10/06/21	TCN
Benzene	ND		ug/L	5.0	1	275244	10/06/21	10/06/21	TCN
Toluene	ND		ug/L	5.0	1	275244	10/06/21	10/06/21	TCN
Ethylbenzene	ND		ug/L	5.0	1	275244	10/06/21	10/06/21	TCN
Xylene (total)	ND		ug/L	5.0	1	275244	10/06/21	10/06/21	TCN
<b>Surrogates</b>				<b>Limits</b>					
Dibromofluoromethane	100%		%REC	70-140	1	275244	10/06/21	10/06/21	TCN
1,2-Dichloroethane-d4	106%		%REC	70-140	1	275244	10/06/21	10/06/21	TCN
Toluene-d8	97%		%REC	70-140	1	275244	10/06/21	10/06/21	TCN
Bromofluorobenzene	98%		%REC	70-140	1	275244	10/06/21	10/06/21	TCN
Method: EPA 8015B									
Prep Method: EPA 5030B									
TPH Gasoline	<b>220</b>		ug/L	50	1	274963	10/01/21	10/01/21	EMW
<b>Surrogates</b>				<b>Limits</b>					
Bromofluorobenzene (FID)	104%		%REC	60-140	1	274963	10/01/21	10/01/21	EMW
Method: EPA 8015B									
Prep Method: EPA 3510C									
Diesel C10-C28	<b>0.80</b>	B	mg/L	0.095	0.95	274874	09/29/21	09/30/21	MES
<b>Surrogates</b>				<b>Limits</b>					
n-Triacontane	82%		%REC	35-130	0.95	274874	09/29/21	09/30/21	MES

B Contamination found in associated Method Blank  
 ND Not Detected

## Batch QC

<b>Type: Blank</b>	<b>Lab ID: QC946432</b>	<b>Batch: 274874</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 3510C</b>

QC946432 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Diesel C10-C28	0.12		mg/L	0.10	09/29/21	09/30/21
<b>Surrogates</b>				<b>Limits</b>		
n-Triacontane	80%		%REC	35-130	09/29/21	09/30/21

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC946433</b>	<b>Batch: 274874</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 3510C</b>

QC946433 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	0.9204	1.000	mg/L	92%		42-120
<b>Surrogates</b>						
n-Triacontane	0.01851	0.02000	mg/L	93%		35-130

<b>Type: Lab Control Sample Duplicate</b>	<b>Lab ID: QC946434</b>	<b>Batch: 274874</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 3510C</b>

QC946434 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Diesel C10-C28	0.9520	1.000	mg/L	95%		42-120	3	36
<b>Surrogates</b>								
n-Triacontane	0.01935	0.02000	mg/L	97%		35-130		

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC946711</b>	<b>Batch: 274963</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC946711 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
TPH Gasoline	513.6	500.0	ug/L	103%		70-130
<b>Surrogates</b>						
Bromofluorobenzene (FID)	185.6	200.0	ug/L	93%		60-140

<b>Type: Matrix Spike</b>	<b>Lab ID: QC946712</b>	<b>Batch: 274963</b>
<b>Matrix (Source ID): Water (450917-010)</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC946712 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
TPH Gasoline	517.1	39.63	500.0	ug/L	95%		70-130	1
<b>Surrogates</b>								
Bromofluorobenzene (FID)	187.8		200.0	ug/L	94%		60-140	1

## Batch QC

<b>Type: Matrix Spike Duplicate</b>	<b>Lab ID: QC946713</b>	<b>Batch: 274963</b>
<b>Matrix (Source ID): Water (450917-010)</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC946713 Analyte	Result	Source Sample	Spiked	Units	Recovery	Qual	Limits	RPD		DF
		Result						RPD	Lim	
TPH Gasoline	529.8	39.63	500.0	ug/L	98%		70-130	2	30	1
<b>Surrogates</b>										
Bromofluorobenzene (FID)	188.3		200.0	ug/L	94%		60-140			1

<b>Type: Blank</b>	<b>Lab ID: QC946714</b>	<b>Batch: 274963</b>
<b>Matrix: Water</b>	<b>Method: EPA 8015B</b>	<b>Prep Method: EPA 5030B</b>

QC946714 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
TPH Gasoline	ND		ug/L	50	09/30/21	09/30/21
<b>Surrogates</b>						
				<b>Limits</b>		
Bromofluorobenzene (FID)	86%		%REC	60-140	09/30/21	09/30/21

<b>Type: Blank</b>	<b>Lab ID: QC947568</b>	<b>Batch: 275244</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC947568 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	10/05/21	10/05/21
Isopropyl Ether (DIPE)	ND		ug/L	5.0	10/05/21	10/05/21
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	10/05/21	10/05/21
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	10/05/21	10/05/21
tert-Butyl Alcohol (TBA)	ND		ug/L	10	10/05/21	10/05/21
m,p-Xylenes	ND		ug/L	10	10/05/21	10/05/21
o-Xylene	ND		ug/L	5.0	10/05/21	10/05/21
Benzene	ND		ug/L	5.0	10/05/21	10/05/21
Toluene	ND		ug/L	5.0	10/05/21	10/05/21
Ethylbenzene	ND		ug/L	5.0	10/05/21	10/05/21
Xylene (total)	ND		ug/L	5.0	10/05/21	10/05/21
<b>Surrogates</b>						
				<b>Limits</b>		
Dibromofluoromethane	99%		%REC	70-140	10/05/21	10/05/21
1,2-Dichloroethane-d4	102%		%REC	70-140	10/05/21	10/05/21
Toluene-d8	99%		%REC	70-140	10/05/21	10/05/21
Bromofluorobenzene	102%		%REC	70-140	10/05/21	10/05/21



## Batch QC

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC947569</b>	<b>Batch: 275244</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC947569 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	43.07	50.00	ug/L	86%		70-130
Isopropyl Ether (DIPE)	45.04	50.00	ug/L	90%		70-130
Ethyl tert-Butyl Ether (ETBE)	43.55	50.00	ug/L	87%		70-130
Methyl tert-Amyl Ether (TAME)	40.07	50.00	ug/L	80%		70-130
tert-Butyl Alcohol (TBA)	206.9	250.0	ug/L	83%		51-130
m,p-Xylenes	92.37	100.0	ug/L	92%		70-130
o-Xylene	46.49	50.00	ug/L	93%		70-130
Benzene	44.96	50.00	ug/L	90%		70-130
Toluene	46.34	50.00	ug/L	93%		70-130
Ethylbenzene	47.19	50.00	ug/L	94%		70-130
<b>Surrogates</b>						
Dibromofluoromethane	51.00	50.00	ug/L	102%		70-140
1,2-Dichloroethane-d4	51.36	50.00	ug/L	103%		70-140
Toluene-d8	50.63	50.00	ug/L	101%		70-140
Bromofluorobenzene	53.13	50.00	ug/L	106%		70-140

<b>Type: Lab Control Sample Duplicate</b>	<b>Lab ID: QC947570</b>	<b>Batch: 275244</b>
<b>Matrix: Water</b>	<b>Method: EPA 624.1</b>	<b>Prep Method: EPA 624.1</b>

QC947570 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
MTBE	43.36	50.00	ug/L	87%		70-130	1	30
Isopropyl Ether (DIPE)	44.52	50.00	ug/L	89%		70-130	1	30
Ethyl tert-Butyl Ether (ETBE)	43.37	50.00	ug/L	87%		70-130	0	30
Methyl tert-Amyl Ether (TAME)	40.33	50.00	ug/L	81%		70-130	1	30
tert-Butyl Alcohol (TBA)	204.1	250.0	ug/L	82%		51-130	1	30
m,p-Xylenes	89.28	100.0	ug/L	89%		70-130	3	30
o-Xylene	45.09	50.00	ug/L	90%		70-130	3	30
Benzene	44.34	50.00	ug/L	89%		70-130	1	30
Toluene	44.34	50.00	ug/L	89%		70-130	4	30
Ethylbenzene	45.58	50.00	ug/L	91%		70-130	3	30
<b>Surrogates</b>								
Dibromofluoromethane	51.46	50.00	ug/L	103%		70-140		
1,2-Dichloroethane-d4	50.80	50.00	ug/L	102%		70-140		
Toluene-d8	49.37	50.00	ug/L	99%		70-140		
Bromofluorobenzene	51.29	50.00	ug/L	103%		70-140		

ND Not Detected

**APPENDIX B**

**LNAPL HAZARDOUS WASTE MANIFEST**

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>CA8971524360</b>	2. Page 1 of 1	3. Emergency Response Phone <b>(424) 347-3088</b>	4. Manifest Tracking Number <b>015019172 FLE</b>			
5. Generator's Name and Mailing Address <b>Defense Logistics Agency - Energy 1962 Freeman Avenue Signal Hill, CA 90755</b>				Generator's Site Address (if different than mailing address) <b>DFSP Norwalk 15306 Norwalk Blvd. Norwalk, CA 90650</b>				
Generator's Phone: <b>(562) 597-1055</b>				U.S. EPA ID Number <b>CAT000016116</b>				
6. Transporter 1 Company Name <b>NIETO &amp; SONS TRUCKING, INC.</b>				U.S. EPA ID Number				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address <b>World Oil Recycling 2000 N. Alameda St. Compton, CA 90222</b>				U.S. EPA ID Number <b>CAT000013352</b>				
Facility's Phone: <b>(310) 537-7100</b>								
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
			No.	Type				
	<b>X</b>	<b>UN1993, Flammable Liquid, n.o.s., 3, PG II (contains jet fuel)</b>	<b>001</b>	<b>TT</b>	<b>53</b>	<b>G</b>	<b>133</b>	
		<b>THIS WASTE STREAM HAS BEEN QUALIFIED FOR RECYCLING/TREATMENT AT THE DEMENNO KERDOON DEA WORLD OIL RECYCLING FACILITY IN COMPTON, CALIFORNIA. THIS FACILITY HAS THE NECESSARY PERMITS TO RECEIVE YOUR WASTE STREAM AS QUALIFIED. OUR EPA NUMBER IS CAT00013352</b>						
14. Special Handling Instructions and Additional Information. <b>ENG# 128 / Jet Fuel &amp; Groundwater SGI/ APEX Contact: Glenn Androsko (714) 608-1089</b>				<b>WEAR ALL APPROPRIATE PROTECTIVE CLOTHING</b>		<b>BESI: 329364</b> <b>BESI. P.O 332245</b>		
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offor's Printed/Typed Name <b>NEIL IRISH AN AGENT OF DL ENERGY</b>				Signature <i>[Signature]</i>		Month Day Year <b>07 07 21</b>		
TRANSPORTER INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
	17. Transporter Acknowledgment of Receipt of Materials							
	Transporter 1 Printed/Typed Name <b>Jose Cabreka</b>				Signature <i>[Signature]</i>		Month Day Year <b>07 07 21</b>	
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
DESIGNATED FACILITY	18. Discrepancy							
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
	Facility's Phone:				Month Day Year			
18c. Signature of Alternate Facility (or Generator)								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. <b>H1039</b>		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a				Signature <i>[Signature]</i>		Month Day Year <b>07 07 21</b>		
Printed/Typed Name <b>Osbert Echezaray</b>								

# Certificate of Treatment/Recycling

ISSUED TO

DEFENSE LOGISTICS AGENCY

FOR

MANIFEST NUMBER 015019172FLE

DATE RECEIVED 7/7/2021

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

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

DeMENNO/KERDOON

"Compliance Through Recycling"

By:

  
Cyrus Pourbassanian  
Laboratory Manager

Date: 7/29/2021

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

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

